

## E03/10.1:

### Цитати на научни публикации

- **Звено:** ( ИФХ ) Институт по физикохимия „Академик Ростислав Каишев”
- **Година:** 2016 ÷ 2016

Брой цитирани публикации: 637

Брой цитиращи източници: 2029

---

### 1959

---

1. Scheludko, A., **Exerowa, D.** Instrument for interferometric measurements of the thickness of microscopic foam films. Comm. Dept. Chem. Bulg. Acad. Sci., 7, 1959, 123-132

Цитира се в:

1. Гергана Милкова Радулова, Дисертация ОНС “Доктор”, СУ „Св. Климент Охридски“, 2016.
  2. Диляна Ст. Иванова, Дисертация ОНС “Доктор”, СУ “Св. Климент Охридски”, Факултет по химия и фармация, Катедра “Физикохимия”, “Изтъняване и критична дебелина на пенни филми от водни р-ри на смеси от п-додецил-β-D-малтозид с нейонни и йонни ПАВ”, (2016).
  3. Aricov, Ludmila; Petkova, Hristina; Arabadzhieva, Dimitrinka; Iovescu, A; Mileva, E; Khristov, K; Stinga, G; Mihailescu, CF; Anghel, DF; Todorov, R., Aqueous solutions of associative poly(acrylates): Bulk and interfacial, Colloids and Surfaces A 505 (2016) 138-149.
2. Scheludko, A., **Exerowa, D.** über den elektrostatischen Druck in Schaumfilmen aus wässrigen Elektrolytlösungen. Kolloid-Zeitschrift, 165, 2, Springer-Verlag, 1959, ISSN:0303402X, DOI:10.1007/BF01809974, 148-151

Цитира се в:

4. Gochev, G.; Platikanov, D.; Miller, R., Chronicles of foam films, Adv.Colloid Interface Sci., 233 (2016) 115-125
5. Beltramo, Peter J.; Van Hooghten, Rob; Vermant, Jan, Millimeter-area, free standing, phospholipid bilayers, Soft Matter, 12 19 (2016) 4324-4331

---

### 1960

---

3. Scheludko, A., **Exerowa, D.** über den elektrostatischen und van der Waalsschen zusätzlichen Druck in wässrigen Schaumfilmen. Kolloid-Zeitschrift, 168, 1, Springer-Verlag, 1960, ISSN:0303402X, DOI:10.1007/BF01513550, 24-28

Цитира се в:

6. Gochev, G.; Platikanov, D.; Miller, R., Chronicles of foam films, Adv.Colloid Interface Sci., 233 (2016) 115-125

---

## 1967

---

4. Toshev, S., **Markov, I.** Electrolytic nucleation of cadmium. *Electrochimica Acta*, 12, 3, 1967, ISSN:134686, 281-286

Цумура се в:

7. Krüger, S., and J. Deubener. "The TTT curves of the heterogeneous and homogeneous crystallization of lithium disilicate—A stochastic approach to crystal nucleation." *Front. Mater.* 3: 42. doi: 10.3389/fmats (2016).

---

## 1969

---

5. **Kashchiev, D.** Nucleation at variable supersaturation. *Surface Science*, 18, 2, 1969, ISSN:396028, 293-297

Цумура се в:

8. Haqshenas, S. R., I. J. Ford, and N. Saffari. "Modelling the effect of acoustic waves on nucleation." *The Journal of Chemical Physics* 145.2 (2016): 024315.

6. **Kashchiev, D.** Solution of the non-steady state problem in nucleation kinetics. *Surface Science*, 14, 1, 1969, ISSN:396028, 209-220

Цумура се в:

9. Palberg, Thomas, Patrick Wette, and Dieter M. Herlach. "Equilibrium fluid-crystal interfacial free energy of bcc-crystallizing aqueous suspensions of polydisperse charged spheres." *Physical Review E* 93.2 (2016): 022601.
10. Binder, Kurt, and Peter Virnau. "Overview: Understanding nucleation phenomena from simulations of lattice gas models." *The Journal of Chemical Physics* 145.21 (2016): 211701.
11. Milchev, Alexander. "Nucleation phenomena in electrochemical systems: kinetic models." *ChemTexts* 2.1 (2016): 1-9.
12. Herlach, Dieter M., and Thomas Palberg. "Experimental studies of crystal nucleation: metals and colloids." *arXiv preprint arXiv:1605.03511* (2016).
13. Herlach, Dieter M., et al. "Overview: Experimental studies of crystal nucleation: Metals and colloids." *The Journal of Chemical Physics* 145.21 (2016): 211703.
14. Ziabicki, Andrzej, Beata Misztal-Faraj, and Leszek Jarecki. "Kinetic model of non-isothermal crystal nucleation with transient and athermal effects." *Journal of Materials Science* 51.19 (2016): 8935-8952.
15. Schmelzer, Jörn WP, Alexander S. Abyzov, and Vladimir G. Baidakov. "Time of Formation of the First Supercritical Nucleus, Time-lag, and the Steady-State Nucleation Rate." *International Journal of Applied Glass Science* (2016), DOI: 10.1111/ijag.12243
16. Nanev, Christo N. "Recent experimental and theoretical studies on protein crystallization." *Crystal Research and Technology* (2016), DOI: 10.1002/crat.201600210
17. Sycheva, Galina A. "Crystal Growth and Nucleation in Glasses in the Lithium Silicate System." *Journal of Crystallization Process and Technology* 6.04 (2016): 29.

---

## 1971

---

7. **Exerowa, D.**, Scheludko, A.. Porous plate method for studying microscopic foam and emulsion films. *Compt. Rend. Acad. Bulg. Sci*, 24, 1971, 47-50

Цумура се в:

18. Aricov, Ludmila; Petkova, Hristina; Arabadzhieva, Dimitrinka; Iovescu, A; Mileva, E; Khristov, K; Stinga, G; Mihailescu, CF; Anghel, DF; Todorov, R., Aqueous solutions of associative poly(acrylates): Bulk and interfacial, *Colloids and Surfaces A* 505 (2016) 138-149.

---

## 1972

---

8. **Milchev, A.** On some probabilistic aspects of the nucleation process. *Journal of Crystal Growth*, 13-14, 1972, ISSN:0022-0248, DOI:10.1016/0022-0248(72)90073-5, 123-127. SJR:0.752

Цумура се в:

19. Tsakova, V., The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew", *Chemistry*, 25 (1) (2016) 35-67.

9. **Markov, I., Kashchiev, D.** Nucleation on active centres. I. General theory. *Journal of Crystal Growth*, 16, 2, 1972, ISSN:220248, DOI:10.1016/0022-0248(72)90109-1, 170-176

Цумура се в:

20. Milchev, Alexander. "Nucleation phenomena in electrochemical systems: kinetic models." *ChemTexts* 2.1 (2016): 1-9.

---

## 1973

---

10. **Markov, I.**, Boynov, A., Toshev, S.. Screening action and growth kinetics of electrodeposited mercury droplets. *Electrochimica Acta*, 18, 5, 1973, ISSN:134686, DOI:10.1016/0013-4686(73)85008-X, 377-384

Цумура се в:

21. Popov, Konstantin I., et al. "Mechanisms of Formation of Some Forms of Electrodeposited Pure Metals." *Morphology of Electrochemically and Chemically Deposited Metals*. Springer International Publishing, 2016. 25-109.
22. Gamburg, Yu D. "Formation of diffusion zones around growing clusters during electrocrystallization of metals." *Russian Journal of Electrochemistry* 52.11 (2016): 1090-1093.

---

## 1974

---

11. **Milchev, A.** Atomistic theory of electrolytic nucleation: I. *Thin Solid Films*, 22, 3, 1974, ISSN:00406090, DOI:10.1016/0040-6090(74)90296-X, 255-265. SJR:0.726

Цумура се в:

23. Gamburg, Y.D., Development of the electrocrystallization theory, Russian Journal of Electrochemistry, 52 (9)( 2016) 832-846
  24. Staikov, G., Nanoscale electrodeposition of low-dimensional metal phases and clusters, 8 (29) (2016) 13880-13892.
  25. Ren, Y.X., Zhao, T.S., Liu, M., Tan, P., Zeng, Y.K., Modeling of lithium-sulfur batteries incorporating the effect of Li<sub>2</sub>S precipitation, Journal of Power Sources, 336 (2016) 115-125.
  26. Kozicki, M.N., Barnaby, H.J., Conductive bridging random access memory - Materials, devices and applications, Semiconductor Science and Technology, 31 (11), (2016) 113001.
  27. Tsakova, V., The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew", Chemistry, 25 (1) (2016) 35-67.
12. Manev, E., Scheludko, A., **Exerowa, D.** Effect of surfactant concentration on the critical thicknesses of liquid films. Colloid and Polymer Science Kolloid Zeitschrift & Zeitschrift f?r Polymere, 252, 8-Jul, Steinkopff-Verlag, 1974, ISSN:0303402X, DOI:10.1007/BF01558157, 586-593

Цитира се в:

28. Диляна Ст. Иванова, Дисертация, СУ “Св. Климент Охридски”, Факултет по химия и фармация, Катедра “Физикохимия”, “Изтъняване и критична дебелина на пенни филми от водни р-ри на смеси от п-додецил-β-D-малтозид с нейонни и йонни ПАВ”, (2016)
  29. Wang, Jianlong; Nguyen, Anh V.; Farrokhpay, Saeed, A critical review of the growth, drainage and collapse of foams, Adv. Colloid Interface Sci., 228 (2016) 55-70
13. Gutzov, I., **Avramov, I.** On the mechanism of formation of amorphous condensates from the vapour phase (I). General theory. Journal of Non-Crystalline Solids, 16, 1, 1974, ISSN:223093, DOI:10.1016/0022-3093(74)90075-1, 128-142

Цитира се в:

30. Dalekorey, A.Vivanytsky, V.P. Kovtunencko, V.S., Meshko, R.O. Journal of Optoelectronics and Advanced Materials 18, Issue 3-4, March-April 2016, Pages 301-309
14. **Milchev, A., Stoyanov, S., Kaishev, R.** Atomistic theory of electrolytic nucleation: II. Thin Solid Films, 22, 3, 1974, ISSN:0040-6090, DOI:10.1016/0040-6090(74)90297-1, 267-274. SJR:0.726

Цитира се в:

31. Gamburg, Y.D., Development of the electrocrystallization theory, Russian Journal of Electrochemistry, 52 (9)( 2016) 832-846.
32. Tsakova, V., The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew", Chemistry, 25 (1)( 2016) 35-67.

1975

15. **Kashchiev, D.** Kinetics of the initial stage of electrolytic deposition of metals III. Galvanostatic conditions. Thin Solid Films, 29, 2, 1975, ISSN:406090, DOI:10.1016/0040-6090(75)90189-3, 193-209

Цитира се в:

33. Baara, Fatma, and Abdelbaki Chemam. "Formation of Catalyst model Dispersed of Pd on a thin mgo (100)." IOP Conference Series: Materials Science and Engineering. Vol. 123. No. 1. IOP Publishing, 2016.

---

## 1976

---

- 16. Markov, I.** Saturation nucleus density in the electrodeposition of metals onto inert electrodes I. Theory. Thin Solid Films, 35, 1, 1976, ISSN:406090, DOI:10.1016/0040-6090(76)90236-4, 11-20

Цумура се в:

- 34.** Popov, Konstantin I., et al. "Mechanisms of Formation of Some Forms of Electrodeposited Pure Metals." Morphology of Electrochemically and Chemically Deposited Metals. Springer International Publishing, 2016. 25-109.
- 35.** Milchev, Alexander. "Nucleation phenomena in electrochemical systems: kinetic models." ChemTexts 2.1 (2016): 1-9.

- 17. Markov, I., Stoycheva, E..** Saturation nucleus density in the electrodeposition of metals onto inert electrodes II. Experimental. Thin Solid Films, 35, 1, 1976, ISSN:406090, DOI:10.1016/0040-6090(76)90237-6, 21-35

Цумура се в:

- 36.** Popov, Konstantin I., et al. "Mechanisms of Formation of Some Forms of Electrodeposited Pure Metals." Morphology of Electrochemically and Chemically Deposited Metals. Springer International Publishing, 2016. 25-109.
- 37.** Milchev, Alexander. "Nucleation phenomena in electrochemical systems: kinetic models." ChemTexts 2.1 (2016): 1-9.

---

## 1977

---

- 18. Gutzow, I.** The mechanism of crystal growth in glass forming systems. Journal of Crystal Growth, 42, C, 1977, ISSN:220248, DOI:10.1016/0022-0248(77)90172-5, 15-23. ISI IF:1.698

Цумура се в:

- 38.** Descamps, Marc, ed. Disordered Pharmaceutical Materials. John Wiley & Sons, 2016.

---

## 1978

---

- 19. Armyanov, S., Maksimov, M..** "Structure, internal stress and magnetic properties of electrodeposited Co-Ni alloys". IEEE Transactions on Magnetics, 14, 5, 1978, ISSN:189464, DOI:10.1109/TMAG.1978.1059786, 855-857

Цумура се в:

- 39.** K. Ignatova, G. Avdeev, Effect of the electrode position conditions on the morphology and corrosion behavior of Ni-Co alloys part 2: Phase composition and corrosion behavior of Ni-Co alloys, electrodeposited from citrate electrolyte, J. Chemical Technology & Metallurgy, 51, (1) 106-111 (2016)

---

## 1979

---

20. **Exerowa, D., Zacharieva, M., Cohen, R., Platikanov, D.** Dependence of the equilibrium thickness and double layer potential of foam films on the surfactant concentration. *Colloid and Polymer Science Kolloid-Zeitschrift & Zeitschrift fur Polymere*, 257, 10, Steinkopff-Verlag, 1979, ISSN:0303402X, DOI:10.1007/BF01761121, 1089-1098

Цитирана се в:

40. Диляна Ст. Иванова, Дисертация, СУ “Св. Климент Охридски”, Факултет по химия и фармация, Катедра “Физикохимия”, “Изтъняване и критична дебелина на пенни филми от водни р-ри на смеси от п-додецил-β-D-малтозид с нейонни и йонни ПАВ”, (2016)
41. Aricov, Ludmila; Petkova, Hristina; Arabadzhieva, Dimitrinka; Iovescu, A ; Mileva, E; Khristov, K; Stinga, G; Mihailescu, CF ; Anghel, DF; Todorov, R., Aqueous solutions of associative poly(acrylates): Bulk and interfacial, *Colloids & Surfaces A*, 505 (2016)138-149
42. C. Roldan-Cruz, E.J. Vernon-Carter, J. Alvarez-Ramirez, Assessing the stability of Tween 80-based O/W emulsions with cyclic voltametry and ..., *Colloids&Surfaces A*, (2016) DOI 10.1016/j.colsua.2016.09.074
21. Van Der Eerden, J.P., Staikov, G., **Kashchiev, D.**, Lorenz, W.J., Budevski, E.. Mean field theory and monte carlo simulation of multisite adsorption. *Surface Science*, 82, 2, 1979, ISSN:396028, DOI:10.1016/0039-6028(79)90196-1, 364-382

Цитирана се в:

43. Oviedo, Oscar Alejandro, et al. "Modelling of Underpotential Deposition on Bulk Electrodes." *Underpotential Deposition*. Springer International Publishing, 2016. 199-276.
22. Nenow, D., **Stoyanova, V.** Appearance of non-singular surfaces on vapour-grown ice crystals. *Journal of Crystal Growth*, 46, 6, Elsevier, 1979, ISSN:220248, DOI:10.1016/0022-0248(79)90226-4, 779-782. SJR:0.772, ISI IF:1.698

Цитирана се в:

44. Tsakova, V., The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew", *Chemistry* 25 (1) (2016)35-67.

---

## 1980

---

23. **Gutzow, I.** Kinetics of crystallization processes in glass forming melts. *Journal of Crystal Growth*, 48, 4, 1980, ISSN:220248, DOI:10.1016/0022-0248(80)90270-5, 589-599

Цитирана се в:

45. Soman, Swati, Dhiren Sonigra, and Ajit R. Kulkarni. "Isothermal crystallization and effect of soak time on phase evolution, microstructure and ionic conductivity of Li<sub>2</sub>O–Al<sub>2</sub>O<sub>3</sub>–TiO<sub>2</sub>–P<sub>2</sub>O<sub>5</sub> glass–ceramic." *Journal of Non-Crystalline Solids* 439 (2016): 38-45.
46. Seebold, Sören, Guixuan Wu, and Michael Müller. "The influence of crystallization on the flow of coal ash-slugs." *Fuel* 187 (2017): 376-387.
47. Descamps, Marc, ed. *Disordered Pharmaceutical Materials*. John Wiley & Sons, 2016.
24. **Avramov, I., Gutzow, I.** "Conditions for direct formation of glassy, liquid or crystalline condensates". *Materials Chemistry*, 5, 5-Apr, 1980, ISSN:3906035, DOI:10.1016/0390-6035(80)90029-2, 315-336

Цумура се в:

48. Anthony L. B. Maçon, Manon Jacquemin, Samuel J. Page, Siwei Li, Sergio Bertazzo Molly M. Stevens, John V. Hanna, Julian R. Jones, Jones Journal of Sol-Gel Science and Technology 1-19 (2016) doi:10.1007/s10971-016-4097

25. **Milchev A.**, Vassileva E., Kertov V.. Electrolytic nucleation of silver on a glassy carbon electrode. Part I. Mechanism of critical nucleus formation. Journal of Electroanalytical Chemistry, 107, 2, 1980, ISSN:572-6657, DOI:10.1016/S0022-0728(80)80204-X, 323-336. SJR:0.752

Цумура се в:

49. Isaev, V.A., Grishenkova, O.V., Semerikova, O.L., Kosov, A.V., Zaykov, Y.P., Nucleation and growth of metal nanocrystals during electrocrystallization in melts, Russian Metallurgy (Metally), 2016 (8) (2016) 742-745.

50. Tsakova, V., The bulgarian physicochemical tradition and the institute of physical chemistry, Chemistry, 25 (1) (2016) 35-67.

26. **Milchev, A.**, Vassileva, E.. Electrolytic nucleation of silver on a glassy carbon electrode. Part II. Steady-state nucleation rate. Journal of Electroanalytical Chemistry, 107, 2, 1980, ISSN:1572-6657, DOI:10.1016/S0022-0728(80)80205-1, 337-352. SJR:0.752

Цумура се в:

51. Gamburg, Y.D., Development of the electrocrystallization theory, Russian Journal of Electrochemistry, 52 (9) (2016) 832-846.

52. Tsakova, V., The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew", Chemistry, 25 (1) (2016) 35-67.

---

1981

---

27. **Gutzow, I., Avramov, I.** "The mechanism of formation, the structure and the properties of amorphous films". Thin Solid Films, 85, 4-Mar, 1981, ISSN:406090, DOI:10.1016/0040-6090(81)90118-8, 203-221

Цумура се в:

53. Murthy, Hari, S. S. Miya, and Susan Krumdieck. "A study on the growth mechanism and the process parameters controlling aluminum oxide thin films deposition by pulsed pressure MOCVD." arXiv preprint arXiv:1608.05892 (2016).

28. **Milchev, A.**, Paunov, M.. A unified model description of mobile and localized adsorption. I. MFA with nonadditive lateral interactions - an application to disordered adsorbed monolayer on a structureless substrate. Surface Science, 108, 1, 1981, ISSN:396028, DOI:10.1016/0039-6028(81)90355-1, 25-37

Цумура се в:

54. Pinto, O.A., Ramirez-Pastor, A.J., Nieto, F. Phase diagrams for the adsorption of monomers with non-additive interactions (2016) Surface Science, 651, pp. L62-L69. 10.1016/j.susc.2016.03.023

29. Malysa, K., **Cohen, R., Exerowa, D.**, Pomianowski, A.. Steady-state foaming and the properties of thin liquid films from aqueous alcohol solutions. Journal of Colloid And Interface Science, 80, 1, 1981, ISSN:219797, DOI:10.1016/0021-9797(81)90153-3, 1-6

Цумура се в:

55. Wang, Nong; Lin, Hong; Zhu, Hongzhe, Study of the Association Behavior Between Bromophenol Blue and Octylphenol Polyoxyethylene Ether (10) in Aqueous Solution and the Solubilization of Bromophenol Blue by Micelles, *J. Solution Chemistry* 45 12 (2016) 1689-1700.

30. Nikolov, A., Martynov, G., **Exerowa, D.** Associative interactions and surface tension in ionic surfactant solutions at concentrations much lower than the cmc. *Journal of Colloid And Interface Science*, 81, 1, 1981, ISSN:219797, DOI:10.1016/0021-9797(81)90308-8, 116-124

Цумура се в:

56. Javadi, Aliyar; Kraegel, Juergen; Kovalchuk, Volodja I.; et al., Dynamics of Interfacial Layer Formation, *Computational Methods for Complex Liquid-Fluid Interfaces*, Book Series: Progress in Colloid and Interface Science, (Eds. Rahni, MT; Karbaschi, M; Miller, R) 5 (2016) 83-104.

---

1982

---

31. Stoyanov, S., **Markov, I.** On the 2D-3D transition in epitaxial thin film growth. *Surface Science*, 116, 2, 1982, ISSN:396028, DOI:10.1016/0039-6028(82)90436-8, 313-337

Цумура се в:

57. Elofsson, Viktor. Nanoscale structure forming processes: Metal thin films grown far-from-equilibrium. Diss. Linköping University Electronic Press, 2016.

32. Rashkov, St., **Monev, M.**, Tomov, I. Electrochemical formation and disintegration of the NiH phase in bright nickel coatings. *Surface Technology*, 16, 3, 1982, ISSN:3764583, DOI:10.1016/0376-4583(82)90110-8, 203-208

Цумура се в:

58. Teus, S.M. Precipitation reactions in nickel-hydrogen system: Ab initio study (Article) *Metallofizika i Noveishie Tekhnologii*, 38 (6) (2016) 737-750

33. **Kashchiev, D.** On the relation between nucleation work, nucleus size and nucleation rate. *J.Chem.Phys.*, 1982

Цумура се в:

59. Merikanto, Joonas, et al. "Effect of ions on sulfuric acid-water binary particle formation: 1. Theory for kinetic-and nucleation-type particle formation and atmospheric implications." *J. Geophys. Res. Atmos* 121 (2016): 1736-1751.

60. Vekilov, Peter G. "Nucleation of protein crystals." *Progress in Crystal Growth and Characterization of Materials*, 62 (2) 2016, 136–154

61. Menzl, Georg, et al. "Molecular mechanism for cavitation in water under tension." *Proceedings of the National Academy of Sciences* 113.48 (2016): 13582-13587.

62. Šarić, Andela, et al. "Kinetics of spontaneous filament nucleation via oligomers: insights from theory and simulation." *The Journal of Chemical Physics* 145 (21) (2016) doi.org/10.1063/1.4965040

63. Menzl, Georg, and Christoph Dellago. "Effect of entropy on the nucleation of cavitation bubbles in water under tension." *The Journal of Chemical Physics* 145.21 (2016): 211918.

64. Wyslouzil, Barbara E., and Judith Wölk. "Overview: Homogeneous nucleation from the vapor phase—The experimental science." *The Journal of Chemical Physics* 145.21 (2016): 211702.



65. Umantsev, A. "Lifetime of metastable states in a Ginzburg-Landau system: Numerical simulations at large driving forces." *Physical Review E* 93.4 (2016): 042806.
66. Sun, Xin, et al. "Kinetics of LPP crystal nucleation and interface morphology studies." *Optik-International Journal for Light and Electron Optics* 127.3 (2016): 1438-1441.
67. Li, Jianlin, Qingliu Wu, and Ji Wu. "Synthesis of Nanoparticles via Solvothermal and Hydrothermal Methods." *Handbook of Nanoparticles* (2016): 295-328.
68. Zhukhovitskii, D. I. "Enhancement of the droplet nucleation in a dense supersaturated Lennard-Jones vapor." *The Journal of chemical physics* 144.18 (2016): 184701.
69. Nanev, Christo N., and Kostadin P. Petrov. "Steering a crystallization process to reduce crystal polydispersity; case study of insulin crystallization." *Journal of Crystal Growth* (2016), doi.org/10.1016/j.jcrysgro.2016.11.068
70. Afzalifar, Ali, Teemu Turunen-Saaresti, and Aki Grönman. "Origin of droplet size underprediction in modeling of low pressure nucleating flows of steam." *International Journal of Multiphase Flow* 86 (2016): 86-98.
71. Wilms, Henrike. *Microphysics of ice particles in the polar summer mesosphere*. Diss. lmu, 2016.

---

## 1983

---

34. **Milchev, A.** The quasichemical approximation for a lattice gas model with nonadditive lateral interactions. *The Journal of Chemical Physics*, 78, 4, 1983, ISSN:219606, 1994-1998

*Цумура се в:*

72. Pinto, O.A., Ramirez-Pastor, A.J., Nieto, F. Phase diagrams for the adsorption of monomers with non-additive interactions (2016) *Surface Science*, 651, pp. L62-L69. 10.1016/j.susc.2016.03.023

35. **Kashchiev, D., Exerowa, D.** Bilayer lipid membrane permeation and rupture due to hole formation. *BBA - Biomembranes*, 732, 1, 1983, ISSN:52736, DOI:10.1016/0005-2736(83)90196-7, 133-145

*Цумура се в:*

73. Yingchoncharoen, Phatsapong; Kalinowski, Danuta S.; Richardson, Des R., *Lipid-Based Drug Delivery Systems in Cancer Therapy: What is available and what is yet to come*, *Pharmacological Rev.*, 68 3 (2016) 701-787

74. Sheng, Youjie; Lu, Shouxiang; Xu, Mingjun; et al., *Effect of Xanthan Gum on the Performance of Aqueous Film-Forming Foam*, *J.Disp.Sci.Technol.*, 37 11 (2016) 1664-1670

36. Rashkov, St., **Monev, M.**, Atanassov, N.. Some possibilities for the use of stressed cathodically hydrogenated electrolytic nickel coatings for the deposition of microporous and microcracked chromium plates. *Surface Technology*, 18, 3, 1983, ISSN:3764583, DOI:10.1016/0376-4583(83)90051-1, 217-223

*Цумура се в:*

75. R. Katirci *A chrome coating from a trivalent chromium bath containing extremely low concentration of Cr<sup>3+</sup> ions* *International Journal of Surface Science and Engineering*, 10 (2016) 73-85

37. **Milchev, A.** 2-D phase transitions. *Electrochimica Acta*, 28, 7, 1983, ISSN:134686, DOI:10.1016/0013-4686(83)85170-6, 941-946

*Цумура се в:*

76. Pinto, O.A., Ramirez-Pastor, A.J., Nieto, F. Phase diagrams for the adsorption of monomers with non-additive interactions (2016) Surface Science, 651, pp. L62-L69. 10.1016/j.susc.2016.03.023

38. **Milchev A., Avramov I.** On the influence of amorphization on atomic diffusion in condensed systems. phys. Stat. Sol. B, 120, 1983, ISSN:1862-6319, 123. SJR:1.42

Цумура се в:

77. D Depla, BR Braeckman - Thin Solid Films, 2016, Pages 90–93

78. Depla, D., Braeckman, B.R. Quantitative correlation between intrinsic stress and microstructure of thin films (2016) Thin Solid Films, 604, pp. 90-93. 10.1016/j.tsf.2016.03.039

39. **Khristov, K.I., Exerowa, D.R., Krugljakov, P.M.** Influence of the type of foam films and the type of surfactant on foam stability. Colloid Polymer Sci., 261, 3, 1983, 265-270. ISI IF:1.865

Цумура се в:

79. Briceno-Ahumada, Zenaida; Maldonado, Amir; Imperor-Clerc, Marianne; et al., On the stability of foams made with surfactant bilayer phases, Soft Matter 12 5 (2016) 1459-1467.

---

## 1984

---

40. **Exerowa, D., Lalchev, Z., Kashchiev, D.** Stability of foam lipid bilayers of amniotic fluid. Colloids and Surfaces, 10, 1, 1984, ISSN:1666622, 113-121

Цумура се в:

80. Exerowa, Dotchi, et al. "Using thin Liquid Film for Study of Pulmonary Surfactants." Encyclopedia of Biocolloid and Biointerface Science 2V Set (2016): 905-914.

81. Todorov, Roumen, et al. "Thin liquid films from a new synthetic pulmonary surfactant preparation." Colloids and Surfaces A: Physicochemical and Engineering Aspects (2016), doi.org/10.1016/j.colsurfa.2016.06.010

41. **Milchev, A., Markov, I.** The effect of anharmonicity in epitaxial interfaces. I. Substrate-induced dissociation of finite epitaxial islands. Surface Science, 136, 3-Feb, 1984, ISSN:396028, DOI:10.1016/0039-6028(84)90626-5, 503-518

Цумура се в:

82. Tassev, V.L., Vangala, S.R., Peterson, R.D., Kimani, M.M., Snure, M., Stites, R.W., Guha, S., Slagle, J.E., Ensley, T.R., Syed, A.A., Markov, I.V. Heteroepitaxial growth of OPGaP on OPGaAs for frequency conversion in the IR and THz (2016) Optical Materials Express, 6 (5), pp. 1724-1737. 10.1364/OME.6.001724

42. **Markov, I., Milchev, A.** The effect of anharmonicity in epitaxial interfaces. II. Equilibrium structure of thin epitaxial films. Surface Science, 136, 3-Feb, 1984, ISSN:396028, DOI:10.1016/0039-6028(84)90627-7, 519-531

Цумура се в:

83. Tassev, V. L., et al. "Homo and heteroepitaxial growth and study of orientation-patterned GaP for nonlinear frequency conversion devices." SPIE LASE. International Society for Optics and Photonics, 2016, doi:10.1117/12.2217464

84. Tassev, Vladimir L., et al. "Heteroepitaxial growth of OPGaP on OPGaAs for frequency

- 43. Markov, I., Milchev, A.** "The effect of anharmonicity in epitaxial interfaces. III. Energy, mean dislocation density and mean strain". *Surface Science*, 145, 3-Feb, 1984, ISSN:396028, DOI:10.1016/0039-6028(84)90085-2, 313-328

*Цумура се в:*

- 85.** Tassev, V.L., Vangala, S., Peterson, R., Kimani, M., Snure, M., Markov, I. Homo and heteroepitaxial growth and study of orientation-patterned GaP for nonlinear frequency conversion devices (2016) *Proceedings of SPIE - The International Society for Optical Engineering*, 9731, art. no. 97310G, 10.1117/12.2217464

---

**1985**

---

- 44. Milchev, A.** Monte Carlo study of a lattice gas model with non-additive lateral interactions. 1985

*Цумура се в:*

- 86.** Pinto, O.A., Ramirez-Pastor, A.J., Nieto, F. Phase diagrams for the adsorption of monomers with non-additive interactions (2016) *Surface Science*, 651, pp. L62-L69. 10.1016/j.susc.2016.03.023

- 45. Stoychev, D., Tomov, I., Vitanova, I.** Recovery and recrystallization of electrodeposited bright copper coatings at room temperature. I. Microhardness in relation to coating structure. *Journal of Applied Electrochemistry*, 15, 6, Kluwer Academic Publishers, 1985, ISSN:0021891X, DOI:10.1007/BF00614363, 879-886. ISI IF:2.409

*Цумура се в:*

- 87.** Yazhou Zhang, Guifu Ding, Hong Wang, Ping Cheng, Microstructure of Electrodeposited Cu Micro-cylinders in High-Aspect-Ratio Blind Holes and Crystallographic Texture of the Cu Overburden Film, *Journal of Materials Science & Technology*, *Journal of Materials Science & Technology*, Volume 32, Issue 4, April 2016, Pages 355–361

- 46. Markov, I., Milchev, A.** Theory of epitaxy in a Frank-van der Merwe model with anharmonic interactions. *Thin Solid Films*, 126, 2-Jan, 1985, ISSN:406090, DOI:10.1016/0040-6090(85)90179-8, 83-93

*Цумура се в:*

- 88.** Wang, X., Huang, L., Jiang, X.-W., Li, Y., Wei, Z., Li, J. Large scale ZrS<sub>2</sub> atomically thin layers (2016) *Journal of Materials Chemistry C*, 4 (15), pp. 3143-3148. 10.1039/c6tc00254d

- 89.** Wang, Xiaoting, et al. "Large scale ZrS<sub>2</sub> atomically thin layers." *Journal of Materials Chemistry C* 4.15 (2016): 3143-3148.

- 47. Gutzow, I., Kashchiev, D., Avramov, I.** Nucleation and crystallization in glass-forming melts: Olds problems and new questions. *Journal of Non-Crystalline Solids*, 73, 3-Jan, 1985, ISSN:223093, DOI:10.1016/0022-3093(85)90370-9, 477-499

*Цумура се в:*

- 90.** Abyzov, Alexander S., et al. "The effect of elastic stresses on the thermodynamic barrier for crystal nucleation." *Journal of Non-Crystalline Solids* 432 (2016): 325-333.

- 91.** Schmelzer, Jörn WP, and Alexander S. Abyzov. "Crystallization of glass-forming liquids:

Specific surface energy." The Journal of Chemical Physics 145 (6) (2016), doi.org/10.1063/1.4960342

92. Thieme, Katrin, Isak Avramov, and Christian Rüssel. "The mechanism of deceleration of nucleation and crystal growth by the small addition of transition metals to lithium disilicate glasses." Scientific reports 6 (2016) 25451.
93. V. Tsakova, THE BULGARIAN PHYSICOCHEMICAL TRADITION AND THE INSTITUTE OF PHYSICAL CHEMISTRY "ACADEMICIAN ROSTISLAW KAISCHEW" Chemistry, 25 (2016) 35-67.
94. Abyzov, Alexander S., et al. "The effect of elastic stresses on the thermodynamic barrier for crystal nucleation." Journal of Non-Crystalline Solids 432 (2016): 325-333.
95. Schmelzer, Jörn WP, and Alexander S. Abyzov. "Crystallization of glass-forming liquids: Specific surface energy." The Journal of Chemical Physics 145.6 (2016): 064512.
96. Schmelzer, Jörn WP, Alexander S. Abyzov, and Vladimir M. Fokin. "Thermodynamic Aspects of Pressure-Induced Crystallization: Kauzmann Pressure." International Journal of Applied Glass Science 7.4 (2016): 474-485.

---

## 1986

---

48. **Kashchiev, D.** Hole-mediated stability and permeability of bilayers. 1986

Цитирана се е:

97. Exerowa, Dotchi, et al. "Using thin Liquid Film for Study of Pulmonary Surfactants." Encyclopedia of Biocolloid and Biointerface Science 2V Set (2016): 905-914.

49. **Milchev, A.** K. Binder, D.W. Heermann. Fluctuations and lack of self-averaging in the kinetics of domain growth. 1986

Цитирана се е:

98. Bonati, C., D'Elia, M., Rossi, P., Vicari, E. Q - dependence of 4D SU (N) gauge theories in the large- N limit (2016) Physical Review D - Particles, Fields, Gravitation and Cosmology, 94 (8), art. no. 085017 DOI:10.1103/PhysRevD.94.085017
99. Kaupuzs, J., Melnik, R.V.N., Rimsans, J. Corrections to finite-size scaling in the  $\phi^4$  model on square lattices (2016) International Journal of Modern Physics C, 27 (9), art. no. 1650108, 10.1142/S0129183116501084
100. Wang, H., Nakamura, H., Fukuda, I. A critical appraisal of the zero-multipole method: Structural, thermodynamic, dielectric, and dynamical properties of a water system (2016) Journal of Chemical Physics, 144 (11), art. no. 114503, 10.1063/1.4943956
101. Bonati, C., D'Elia, M., Scapellato, A.  $\theta$  Dependence in SU (3) Yang-Mills theory from analytic continuation (2016) Physical Review D - Particles, Fields, Gravitation and Cosmology, 93 (2), art. no. 025028, 10.1103/PhysRevD.93.025028

50. **Kristev I.**, Nikolova M.. Structural effects during the electrodeposition of silver-antimony alloys from ferrocyanidethiocyanate electrolytes. J. Applied Electrochemistry, 16, Kluwer, 1986, 875-878

Цитирана се е:

102. V.D Jovic, Chapter 7 Electrodeposited Alloys and Multilayered Structures in Popov, K.I.; Djokic S.S.; Nikolic, N.D.; Jovic, V.D., Morphology of electrochemically and chemically deposited

- 51. I. Kristev, M. Nikolova.** Structure of silver electrodeposits plated from different complex electrolytes. *Journal of Applied Electrochemistry*, 16, 5, Kluwer, 1986, 703-706

Цумура се в:

- 103.** Verlato, E., He, W.bc, Amrane, A., Barison, S., Floner, D., Fourcade, F., Geneste, F., Musiani, M., Seraglia, R., Preparation of Silver-Modified Nickel Foams by Galvanic Displacement and Their Use as Cathodes for the Reductive Dechlorination of Herbicides, *ChemElectroChem*, Volume 3, Issue 12, 1 December 2016, Pages 2084-2092
- 104.** Zhevnenko, S.N., Khayrullin, A.K., Interfacial Free Energy and Viscosity of Cu(Ag) Solid Solutions *Journal of Physical Chemistry C*, Volume 120, Issue 26, 7 July 2016, Pages 14082-14087

- 52. Milchev, A.** Finite-size scaling analysis of the  $\mathbb{Z}_4$  field theory on the square lattice. 1986

Цумура се в:

- 105.** Nicolao, L., Mendoza-Coto, A., Stariolo, D.A. Langevin simulations of stripe forming systems with long-range isotropic competing interactions (2016) *Journal of Physics: Conference Series*, 686 (1), art. no. 012005, 10.1088/1742-6596/686/1/012005

- 53. Milchev, A..** Contribution to the theory of nucleation on preferred sites-II. *Electrochimica Acta*, 31, 8, 1986, ISSN:0013-4686, DOI:10.1016/0013-4686(86)80012-3, 977-980. SJR:1.391

Цумура се в:

- 106.** Gamburg, Y.D., Development of the electrocrystallization theory, *Russian Journal of Electrochemistry*, 52 (9)( 2016) 832-846.

---

## 1987

---

- 54. V. Tsakova, A. Milchev.** Comparative studies of electrochemical phase formation by amperometric and microscopic methods. Part I. Nucleation kinetics in dilute solutions of mercury nitrate. *J. Electroanal. Chem.*, 235 (1987) 237-247, 235, Elsevier, 1987, ISSN:15726657, 237-247. ISI IF:2.822

Цумура се в:

- 107.** Y.-T Hsieh, Y.-C Chen, I.-W Sun, 1-Butyl-1-Methylpyrrolidinium Dicyanamide Room Temperature Ionic Liquid for Electrodeposition of Antimony, *J. Electrochem. Soc.* 163 (2016), D188-D183.
- 108.** J. Zhang, M. An., Q. Chen, A. Liu, X. Jiang, S. Ji, Y. Lian, X. Wen, Electrochemical Study of the Diffusion and Nucleation of Gallium(III) in [Bmim][TfO] Ionic Liquid, *Electrochimica Acta*, 190 (2016), 1066-1077.

- 55. V. Tsakova, A. Milchev.** Comparative studies of electrochemical phase formation by amperometric and microscopic methods Part II. Nucleation kinetics in the presence of surfactants. *Journal of Electroanalytical Chemistry*, 235, Elsevier, 1987, ISSN:1572-6657, 249-257. ISI IF:2.822

Цумура се в:

- 109.** W. Lai, C. Wang, F. Yu, L. Lu, Q. Wang, X. Jiang, X. Xu, T. Zhang, S. Wu, X. Zheng, Z.

Zhang, F. Dong, S. Jiang, K. Liu, An effective strategy for recapitulating N-terminal heptad repeat trimmers in enveloped virus surface glycoproteins for therapeutic applications, Chem. Sci. 7 (2016) 2145-2150

110. J. Zhang, M. An, Q. Chen, A. Liu, X. Jiang, S. Ji, Y. Lian, X. Wen, Electrochemical study of the diffusion and nucleation of Gallium(III) in [Bmim][TfO] ionic liquid, Electrochim. Acta, 190 (2016), 1066 – 1077.

111. J.T. Hsieh, Y.C. Chen, I.W. Sun, 1-Butyl-1-Methylpyrrolidinium Dicyanamide Room Temperature Ionic Liquid for Electrodeposition of Antimony, J. Electrochem. Soc., 163 (2016) D188-D199.

56. **Exerowa, D.**, Kolarov, T., Khristov, Khr.. Direct measurement of disjoining pressure in black foam films. I. Films from an ionic surfactant. Colloids and Surfaces, 22, 2, 1987, ISSN:1666622, DOI:10.1016/0166-6622(87)80218-4, 161-169

Цитирани се в:

112. Tianxin Li, Hongqing Song, Jiulong Wang, An analytical method for modeling and analysis gas-water relative permeability in nanoscale pores with interfacial effects, Intl.J.Coal Geology, 159 (2016). 71-81.

113. Danov, Krassimir D.; Basheva, Elka S.; Kralchevsky, Peter A., Effect of Ionic Correlations on the Surface Forces in Thin Liquid Films: Influence of Multivalent Coions and Extended Theory, Materials, 9 3 (2016) Article Number: 145

114. Aricov, Ludmila; Petkova, Hristina; Arabadzhieva, Dimitrinka; Iovescu, A ; Mileva, E; Khristov, K; Stinga, G; Mihailescu, CF ; Anghel, DF; Todorov, R., Aqueous solutions of associative poly(acrylates): Bulk and interfacial, Colloids & Surfaces A, 505 (2016)138-149

115. Гургана Милкова Радулова, Дисертация за присъждане на образователната и научна степен “Доктор”, Софийски Университет „Св Климент Охридски“ 2016

116. Zeng, Yongchao; Farajzadeh, Rouhi; Eftekhari, Ali Akbar; et al., Role of Gas Type on Foam Transport in Porous Media, Langmuir, 32 25 (2016) 6239-6245

---

## 1988

---

57. **Michailov, M.**, Henzler, M., Meyer G.. Leed studies of the epitaxy of Pb on Cu(111). Surface Science, 202, 1-2, Elsevier, 1988, 125-141. SJR:2, ISI IF:1.9

Цитирани се в:

117. Rusina, G.G., Borisova, S.D., Ereemeev, S.V., Sklyadneva, I.Y., Chulkov, E.V., Benedek, G. and Toennies, J.P., "Surface Dynamics of the Wetting Layers and Ultrathin Films on a Dynamic Substrate:(0.5–4) ML Pb/Cu (111)", The Journal of Physical Chemistry C, 120 (39), 2016, pp.22304-22317.

58. **A. Milchev.** Monte-Carlo simulation of the Cahn-Hillard model of spinodal decomposition. 1988

Цитирани се в:

118. Couturier, L., De Geuser, F., Deschamps, A. Direct comparison of Fe-Cr unmixing characterization by atom probe tomography and small angle scattering (2016) Materials Characterization, 121, pp. 61-67. 10.1016/j.matchar.2016.09.028

59. Nikolova, M., Harizanov, O., Steftchev, P., **Kristev, I.**, Rashkov, St.. Black chromate conversion

coatings on electrodeposited zinc. *Surface and Coatings Technology*, 34, 4, 1988, ISSN:0257-8972, DOI:DOI: 10.1016/0257-8972(88)90105-3, 501-514. ISI IF:2.331

*Цумура се в:*

**119.** Jeeva, P.A., Narayanan, S., Karthikeyan, S., A review on black coatings for solar energy storing systems, *International Journal of ChemTech Research*, Volume 9, Issue 3, 2016, Pages 589-596

**60.** Stoyanov, S., **Michailov, M.** Non-steady state effects in MBE: Oscillations of the step density at the crystal surface. *Surface Science*, 202, 2-Jan, 1988, ISSN:396028, DOI:10.1016/0039-6028(88)90064-7, 109-124. ISI IF:1.931

*Цумура се в:*

**120.** Werner Wessels, "Growth monitoring during pulsed laser deposition of oxides using AFM" PhD thesis, University of Twente, The Netherlands, 2016

**121.** V. Tsakova, *Bulgarian Journal of Science Education*, 25, 1, 2016

**61.** Nedyalkov, M., Krustev, R., **Kashchiev, D.**, Platikanov, D., **Exerowa, D.** Permeability of Newtonian black foam films to gas. *Colloid & Polymer Science*, 266, 3, Steinkopff-Verlag, 1988, ISSN:0303402X, DOI:10.1007/BF01452592, 291-296

*Цумура се в:*

**122.** Germain, Juan C., et al. "Permeability of Bubbles Stabilized by Proteins." *Bubbles in Food 2: Novelty, Health and Luxury* (2016): 141.

**123.** Wang, Yang, et al. "Surface property and enhanced oil recovery study of foam aqueous dispersions comprised of surfactants–organic acids–nanoparticles." *RSC Advances* 6.114 (2016): 113478-113486.

**124.** Azmin, Mehrdad. *Engineering Ultrasound Contrast Agents for Increased Stability and Nonlinearity*. Diss. UCL (University College London), 2016.

**62.** **Avramov, I.**, **Gutzow, I.** Heating rate and glass transition temperature. *Journal of Non-Crystalline Solids*, 104, 1, 1988, ISSN:223093, DOI:10.1016/0022-3093(88)90194-9, 148-150

*Цумура се в:*

**125.** P Grabowski, JL Nowinski, P Kaminska - *Journal of Non-Crystalline Solids*, 453, (2016), Pages 172–176

**63.** **Armyanov, S.**, Sotirova, G.. Diffusion-elastic phenomena in nickel and cobalt electrodeposits plated on to strip cathodes. *Surface and Coatings Technology*, 34, 4, 1988, ISSN:2578972, DOI:10.1016/0257-8972(88)90099-0, 441-454

*Цумура се в:*

**126.** Z. Zhao, L. Du, Z. Xu, L. Shao, Effects of ultrasonic agitation on adhesion strength of micro electroforming Ni layer on Cu substrate, *Ultrasonics Sonochemistry*, 29, 1-10 (2016)

**64.** **Avramov, I.**, **Milchev, A.** Effect of disorder on diffusion and viscosity in condensed systems. *Journal of Non-Crystalline Solids*, 104, 3-Feb, 1988, ISSN:223093, DOI:10.1016/0022-3093(88)90396-1, 253-260

*Цумура се в:*

127. Micoulaut, M., Reports on Progress in Physics, 79 ( 6 ) (2016), art. no. 066504
128. Z Wojnarowska, M Paluch - Dielectric Properties of Ionic Liquids, Springer 2016
129. VN Novikov, Chemical Physics Letters, 659, 16 August 2016, Pages 133-136 2016
130. Fu, Q., Mauro, J.C., Rahaman, M.N. Bioactive Glass Innovations Through Academia-Industry Collaboration (2016) International Journal of Applied Glass Science, 7 (2), pp. 139-146. 10.1111/ijag.12202
131. Mauro, J.C., Tandia, A., Vargheese, K.D., Mauro, Y.Z., Smedskjaer, M.M., Chemistry of Materials, 28 ( 12 ) (2016) pp. 4267 - 4277 .
132. LL Josephson, WJ Galush, EM Furst - Biomicrofluidics, 10, 043503 (2016)
133. He, F., He, Z.-J., Xie, J.-L., Mei, S.-X., Jin, M.-F. Melting, sintering and wetting properties of ZnO–Bi<sub>2</sub>O<sub>3</sub>–B<sub>2</sub>O<sub>3</sub> sealing glass, (2016) Journal of Central South University, 23 (7), pp. 1541-1547. 10.1007/s11771-016-3206-x
134. Josephson, L.L., Galush, W.J., Furst, E.M. Parallel temperature-dependent microrheological measurements in a microfluidic chip (2016) Biomicrofluidics, 10 (4), art. no. 043503, 10.1063/1.4953863
135. Mauro, J.C., Tandia, A., Vargheese, K.D., Mauro, Y.Z., Smedskjaer, M.M. Accelerating the Design of Functional Glasses through Modeling (2016) Chemistry of Materials, 28 (12), pp. 4267-4277. 10.1021/acs.chemmater.6b01054
136. Fu, Q; Mauro, JC; Rahaman, MN, INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, 7 (2):139-146; 10.1111/ijag.12202 JUN 2016
137. Micoulaut, M. Relaxation and physical aging in network glasses: A review (2016) Reports on Progress in Physics, 79 (6), art. no. 066504, 10.1088/0034-4885/79/6/066504
138. Wang, MT; Fang, L; Li, M; Cheng, JS; He, F; Deng, W; Dongol, R, MATERIALS CHEMISTRY AND PHYSICS, 179 304-309; (2016)
139. Sehlke, A., Whittington, A.G. The viscosity of planetary tholeiitic melts: A configurational entropy model (2016) Geochimica et Cosmochimica Acta, 191, pp. 277-299. DOI: 10.1016/j.gca.2016.07.027
140. Wojnarowska, Z; Paluch, M, DIELECTRIC PROPERTIES OF IONIC LIQUIDS, 73-113; 10.1007/978-3-319-32489-0\_4 2016
141. Mitang Wang, Long Fang, Mei Li, Jinshu Cheng, Feng He, Wei Deng, Ruhil Dongol, Materials Chemistry and Physics 15 (2016) 304-309
142. A Sehlke, AG Whittington - Geochimica et Cosmochimica Acta, 2016, doi:10.1016/j.gca.2016.07.027
143. V. Tzakova, Chemistry 25, Issue 1, 2016, Pages 35-67
144. F He, Z He, J Xie, S Mei, M Jin, Materials, Metallurgy, Chemical and Environmental Engineering Journal of Central South University July 2016, Volume 23, Issue 7, pp 1541-1547
145. Novikov, V.N. Connection between the glass transition temperature T<sub>g</sub> and the Arrhenius temperature T<sub>A</sub> in supercooled liquids, 10.1016/j.cplett.2016.07.003
146. Wang, M., Fang, L., Li, M., Cheng, J., He, F., Deng, W., Dongol, R. Dependence of Gd<sub>2</sub>O<sub>3</sub> containing silicate glass workability and fragility on structure (2016) Materials Chemistry and Physics, 179, pp. 304-309. 10.1016/j.matchemphys.2016.05.043
147. Josephson, LL; Galush, WJ; Furst, EM, BIOMICROFLUIDICS, 10 (4):10.1063/ 1.4953863 JUL 2016



148. Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew" (2016) Chemistry, 25 (1), pp. 35-67

149. RENA GRADMANN, Dissertation, INSTITUTE OF GEOGRAPHY AND GEOLOGY, JULIUS MAXIMILANS UNIVERSITY WÜRZBURG (2016)

---

## 1989

---

65. **Armyanov S.A.**, Sotirova G.S.. Electroless Co-Ni-P Thin Films for Magnetic Recording. Journal of the Electrochemical Society, 136, 5, Electrochemical Society, 1989, ISSN:Print ISSN: 0013-4651; Online ISSN: 1945-7111, 1575-1578

Цумура се в:

150. J. De, T. Banerjee, R. S. Sen, B. Oraon, G. Majumdar, Multi-objective optimization of electroless ternary Nickel–Cobalt–Phosphorous coating using non-dominant sorting genetic algorithm-II, Engineering Sci. & Technol. Internat. J., 19, 1526–1533 (2016)

66. Popov, A., Dimitrov, N., **Kashchiev, D.**, Vitanov, T., Budevski, E.. A model of the structural transformation processes in lead adsorbate on Ag(111) faces at low coverages. Electrochimica Acta, 34, 2, 1989, ISSN:134686, DOI:10.1016/0013-4686(89)87096-3, 269-271

Цумура се в:

151. Oviedo, Oscar Alejandro, et al. "Experimental Techniques and Structure of the Underpotential Deposition Phase." Underpotential Deposition. Springer International Publishing, 2016. 17-89.

67. Kolarov, T., **Cohen, R.**, **Exerowa, D.**. Direct measurement of disjoining pressure in black foam films II. Films from nonionic surfactants. Colloids and Surfaces, 42, 1, 1989, ISSN:1666622, DOI:10.1016/0166-6622(89)80076-9, 49-57

Цумура се в:

152. Tianxin Li, Hongqing Song, Jiulong Wang, An analytical method for modeling and analysis gas-water relative permeability in nanoscale pores with interfacial effects, Intl.J.Coal Geology, 159 (2016). 71-81.

153. Aricov, Ludmila; Petkova, Hristina; Arabadzhieva, Dimitrinka; Iovescu, A ; Mileva, E; Khristov, K; Stinga, G; Mihailescu, CF ; Anghel, DF; Todorov, R., Aqueous solutions of associative poly(acrylates): Bulk and interfacial, Colloids & Surfaces A, 505 (2016)138-149

68. Obreten, W., **Kashchiev, D.**, Bostanov, V.. Unified description of the rate of nucleation-mediated crystal growth. Journal of Crystal Growth, 96, 4, 1989, ISSN:220248, DOI:10.1016/0022-0248(89)90644-1, 843-848

Цумура се в:

154. Tilbury, Carl J., and Michael F. Doherty. "Modeling Layered Crystal Growth at Increasing Supersaturation by Connecting Growth Regimes." AIChE Journal (2016), DOI: 10.1002/aic.15617

155. Dezfoli, Amir Reza Ansari, et al. "3D numerical study of coupled crystallization and carbon segregation during multi-crystalline silicon ingot solidification." Materials Science in Semiconductor Processing 59 (2017): 76-86.

69. A. Milchev, **V. Tsakova**. Theory of progressive nucleation and growth accounting for the ohmic drop in the electrolyte-I. Journal of Applied Electrochemistry, 20, Springer, 1990, ISSN:0021-891X, 301-306. ISI IF:2.223

*Цумура се в:*

156. José Joaquín Arroyo Gómez, Formación por vía electroquímica de materiales metálicos nanoestructurados, PhD Thesis, Universidad Nacional del Sur, Bahía Blanca, Argentina, 2016.

70. Schmelzer, J., **Gutzow, I., Pascova, R.** Kinetics of phase segregation in elastic and viscoelastic media. Journal of Crystal Growth, 104, 2, Elsevier, 1990, ISSN:220248, DOI:10.1016/0022-0248(90)90153-C, 505-520. SJR:0.772, ISI IF:1.698

*Цумура се в:*

157. Abyzov, Alexander S., et al. "The effect of elastic stresses on the thermodynamic barrier for crystal nucleation." Journal of Non-Crystalline Solids 432 (2016): 325-333.

71. Schmelzer, J., **Pascova, R., Gutzow, I.** Cluster Growth and Ostwald Ripening in Viscoelastic Media. physica status solidi (a), 117, 2, Wiley, 1990, ISSN:1862-6300, DOI:10.1002/pssa.2211170205, 363-375. ISI IF:1.616

*Цумура се в:*

158. X. Jiang, Z. Ma, J. Yu, S. Ren, H. Yang, W. Li, J. Xu, L. Xu, K. Chen, X. Huang, D. Feng, Ostwald ripening in segregated SixN/SiyN multilayers Phys.Stat Sol. A 213 (7) (2016) 1878 – 1884

72. **V. Tsakova**, A. Milchev. Nucleation of silver on a polyaniline coated platinum electrode. Electrochimica Acta, 36, Elsevier, 1991, ISSN:0013-4686, 1151-1155. ISI IF:4.803

*Цумура се в:*

159. F. Hashemi, A.R. Zanganeh, Electrochemically induced regioregularity of the binding sites of a polyaniline membrane as a powerful approach to produce selective recognition sites for silver ion, J. Electroanal. Chem. 767 (2016) 24-33.

160. V V Kondratiev, V V Malev, S N Eliseeva, Composite electrode materials based on conducting polymers loaded with metal nanostructures, Russ. Chem. Rev. 85 (2016) 14 – 37.

161. M.E. Abdelhamid, G.A. Snook, A.P. O'Mullane, Electrochemical Tailoring of Fibrous Polyaniline and Electroless Decoration with Gold and Platinum Nanoparticles, - Langmuir, 32 (2016), 8834-8842.

162. V.T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016

73. **Avramov, I.** Influence of disorder on viscosity of undercooled melts. The Journal of Chemical Physics, 95, 6, 1991, ISSN:219606, 4439-4443

Цумура се в:

163. H Jabraoui, EM Achhal, A Hasnaoui, JL Garden, Y. Vaills, S. Ouaskit, Journal of Non-Crystalline, 448 ( 2016) 16-26
164. V. Tzakova, Chemistry 25, Issue 1, 2016, Pages 35-67
74. **Kashchiev, D.**, Verdoes, D., van Rosmalen, G.M.. Induction time and metastability limit in new phase formation. Journal of Crystal Growth, 110, 3, 1991, ISSN:220248, DOI:10.1016/0022-0248(91)90273-8, 373-380

Цумура се в:

165. Sosso, Gabriele C., et al. "Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations." Chemical reviews 116 (12) (2016) 7078–7116
166. Poornachary, Sendhil K., et al. "Crystallizing Micronized Particles of a Poorly Water-Soluble Active Pharmaceutical Ingredient: Nucleation Enhancement by Polymeric Additives." Crystal Growth & Design 16.2 (2016): 749-758.
167. Sobanska, M., et al. "Analysis of incubation times for the self-induced formation of GaN nanowires: influence of the substrate on the nucleation mechanism." Crystal Growth & Design 16.12 (2016): 7205-7211.
168. Zheng, Zhangfeng, Shidong Song, and Yan Wang. "Sol-gel-processed amorphous lithium ion electrolyte thin films: Structural evolution, theoretical considerations, and ion transport processes." Solid State Ionics 287 (2016): 60-70.
169. Arora, Amit, et al. "Biosurfactant as a Promoter of Methane Hydrate Formation: Thermodynamic and Kinetic Studies." Scientific reports 6 (2016) 20893.
170. Shiau, Lie-Ding, and Hsu-Pei Wang. "Simultaneous determination of interfacial energy and growth activation energy from induction time measurements." Journal of Crystal Growth 442 (2016): 47-51.
171. Qin, Shiyue, Yifei Zhang, and Yi Zhang. "Nucleation and morphology of sodium metaborate dihydrate from NaOH solution." Journal of Crystal Growth 433 (2016): 143-147.
172. Noor Mohammad, S. "VQS (vapor-quasiliquid-solid, vapor-quasisolid-solid) mechanism for the catalyst-free and catalyst-mediated non-eutectic syntheses of single-crystal nanowires." Journal of Applied Physics 120.8 (2016): 084307.
173. Dubrovskii, V. G. "Incubation time of heterogeneous growth of islands in the mode of incomplete condensation." Technical Physics Letters 42.11 (2016): 1103-1106.
75. **Gutzow, I.**, Dobрева, A.. "Structure, thermodynamic properties and cooling rate of glasses". Journal of Non-Crystalline Solids, 129, 3-Jan, 1991, ISSN:223093, DOI:10.1016/0022-3093(91)90103-D, 266-275

Цумура се в:

174. Rodrigues, Ana SMC, and Luís MNBF Santos. "Nanostructuring Effect on the Thermal Behavior of Ionic Liquids." ChemPhysChem 17.10 (2016): 1512-1517.
175. Schmelzer, Jörn WP, and Alexander S. Abyzov. "Crystallization of glass-forming liquids: Thermodynamic driving force." Journal of Non-Crystalline Solids 449 (2016): 41-49.
176. Schmelzer, Jörn WP, Alexander S. Abyzov, and Vladimir M. Fokin. "Thermodynamic Aspects of Pressure-Induced Crystallization: Kauzmann Pressure." International Journal of Applied Glass Science 7.4 (2016): 474-485.
177. Cassar, Daniel R. "Crystallization driving force of supercooled oxide liquids." International

76. Dimitrov, N., Popov, A., **Kashchiev, D.**, Vitanov, T., Budevski, E.. Experimental verification of the model of slow structural transformations in lead underpotential adsorbate on Ag(111) faces at low coverages. *Electrochimica Acta*, 36, 8, 1991, ISSN:134686, DOI:10.1016/0013-4686(91)80004-R, 1259-1262

Цитира се в:

178. Oviedo, Oscar Alejandro, et al. "Experimental Techniques and Structure of the Underpotential Deposition Phase." *Underpotential Deposition*. Springer International Publishing, 2016. 17-89.

77. **V.Tsakova**, A.Milchev. Electrochemical formation and stability of polyaniline films. *Electrochimica Acta*, 36, 1991, 1579-1583

Цитира се в:

179. V. V. Kondratiev, V. V. Malev, S. N. Eliseeva, Composite electrode materials based on conducting polymers loaded with metal nanostructures, *Russian Chem. Rev.*, 85 (2016)

78. Кругляков, П. М., **Ексерова Д.** "Пена и пенные пленки". Химия, Москва, 1991

Цитира се в:

180. Диляна Ст. Иванова, Дисертация за присъждане на образователната и научна степен (ОНС) "Доктор", СУ "Св. Климент Охридски", Факултет по химия и фармация, Катедра "Физикохимия", "Изтъняване и критична дебелина на пенни филми от водни р-ри на смеси от п-додецил-β-D-малтозид с нейонни и йонни ПАВ", (2016).

---

## 1992

---

79. **Exerowa, D.**, Nikolova, A.. Phase transitions in phospholipid foam bilayers. *Langmuir*, 8, 12, 1992, ISSN:7437463, 3102-3108

Цитира се в:

181. Ortiz-Collazos, Stephanie; Goncalves, Yan M. H.; Horta, Bruno A. C.; et al., *Langmuir films and mechanical properties of polyethyleneglycol fatty acid esters at the air-water interface*, *Colloids & Surfaces A.*, 498 (2016) 50-57

80. **Exerowa, D.**, **Kashchiev, D.**, Platikanov, D.. Stability and permeability of amphiphile bilayers. *Advances in Colloid and Interface Science*, 40, C, 1992, ISSN:18686, DOI:10.1016/0001-8686(92)80077-B, 201-256

Цитира се в:

182. Cui, Leyu, et al. "Mobility of Ethomeen C12 and Carbon Dioxide (CO<sub>2</sub>) Foam at High Temperature/High Salinity and in Carbonate Cores." *SPE Journal* (2016), doi.org/10.2118/179726-PA

183. Alexandrov, S. A., et al. "Foam films stabilized with lysophosphatidylglycerol in the presence of Na<sup>+</sup> and Ca<sup>2+</sup>." *BULGARIAN CHEMICAL COMMUNICATIONS* 48 (2016): 18-22.

184. Gochev, Georgi, Vamseekrishna Ulaganathan, and Reinhard Miller. "Foams." *Ullmann's Encyclopedia of Industrial Chemistry* (2016), DOI: 10.1002/14356007.a11\_465.pub2

185. Makhoul-Mansour, Michelle, Elio J. Challita, and Eric C. Freeman. "Chain Failure Events in

Microfluidic Membrane Networks." ASME 2016 Conference on Smart Materials, Adaptive Structures and Intelligent Systems. American Society of Mechanical Engineers, 2016.

186. Joseph D. Berry, Raymond R. Dagastine, Mapping coalescence of micron-sized drops and bubbles, *J. Colloid and Interface Sci.* DOI: 10.1016/j.jcis.2016.10.040.

187. Briceno-Ahumada, Zenaida; Maldonado, Amir; Imperor-Clerc, Marianne; et al., On the stability of foams made with surfactant bilayer phases, *Soft Matter*, 12 5 (2016) 1459-1467

81. Verdoes, D., **Kashchiev, D.**, van Rosmalen, G.M.. Determination of nucleation and growth rates from induction times in seeded and unseeded precipitation of calcium carbonate. *Journal of Crystal Growth*, 118, 4-Mar, 1992, ISSN:220248, DOI:10.1016/0022-0248(92)90089-2, 401-413

*Цумура се в:*

188. Liszka, Barbara M., et al. "Calcium carbonate nucleation investigated in a Double Pulse experiment." *Crystal Growth & Design* 16.9 (2016): 4839-4845.

189. Mohammadmoradi, Peyman, and Apostolos Kantzas. "Pore scale investigation of wettability effect on waterflood performance." *SPE Annual Technical Conference and Exhibition*. Society of Petroleum Engineers, 2016.

190. Sheikhi, Amir, et al. "Macromolecule-based platforms for developing tailor-made formulations for scale inhibition." *Environmental Science: Water Research & Technology* 2.1 (2016): 71-84.

191. Khormali, Azizollah, Dmitry G. Petrakov, and Mohammad Javad Afshari Moein. "Experimental analysis of calcium carbonate scale formation and inhibition in waterflooding of carbonate reservoirs." *Journal of Petroleum Science and Engineering* 147 (2016): 843-850.

192. Xie, Tian, and Lynne S. Taylor. "Improved Release of Celecoxib from High Drug Loading Amorphous Solid Dispersions Formulated with Polyacrylic Acid and Cellulose Derivatives." *Molecular pharmaceutics* 13.3 (2016): 873-884.

82. van der Leeden, M.C., **Kashchiev, D.**, Van Rosmalen, G.M.. Precipitation of barium sulfate: Induction time and the effect of an additive on nucleation and growth. *Journal of Colloid And Interface Science*, 152, 2, 1992, ISSN:219797, DOI:10.1016/0021-9797(92)90036-L, 338-350

*Цумура се в:*

193. Zhen-Wu, B. Y., et al. "Experimental determination of barite dissolution and precipitation rates as a function of temperature and aqueous fluid composition." *Geochimica et Cosmochimica Acta* 194 (2016): 193-210.

194. He, Can, and Radisav D. Vidic. "Impact of Antiscalants on the Fate of Barite in the Unconventional Gas Wells." *Environmental Engineering Science* 33.10 (2016): 745-752.

83. Tomov, I., **Monev, M.**, Mikhailov, M., Rashkov, S.. X-ray diffraction study of anisotropy by the formation and decomposition of nickel hydride Part II: Decomposition kinetics. *Journal of Applied Electrochemistry*, 22, 1, Kluwer Academic Publishers, 1992, ISSN:0021891X, DOI:10.1007/BF01093015, 82-86

*Цумура се в:*

195. Teus, S.M. Precipitation reactions in nickel-hydrogen system: Ab initio study (Article) *Metallofizika i Noveishie Tekhnologii*, 38 (6) (2016) 737-750

84. **Stoychev, D.**, Vitanova, I., Bujukliev, R., Petkova, N., Popova, I., Pojarliev, I.. "The Influence of Some Derivatives of Dialyl- and Diaryldisulphides on Electrode Processes during Electrodeposition of

Copper". Journal of Applied Electrochemistry, 22, 10, Elsevier, 1992, 978-986. ISI IF:2.409

Цумура се в:

**196.** Ren Jianhua, Zhu Zengwei, Zhu Di, Effects of process parameters on mechanical properties of abrasive-assisted electroformed nickel, Chinese Journal of Aeronautics • Volume 29, Issue 4, August 2016, Pages 1096–1102 Impact Factor: 1.07 • DOI: 10.1016/j.cja.2016.05.001

**85. Armyanov S.,** Sotirova-Chakarova G.. Hydrogen Desorption and Internal Stress in Nickel Coatings, Obtained by Periodic Electrodeposition. Journal of the Electrochemical Society, 139, Electrochemical Society, 1992, ISSN:Print ISSN: 0013-4651; Online ISSN: 1945-7111, 3454-3457. ISI IF:2.76

Цумура се в:

**197.** J. Li, Z. An, Z. Wang, M. Toda, T. Ono, Pulse-Reverse Electrodeposition and Micromachining of Graphene-Nickel Composite: An Efficient Strategy towards High-Performance Microsystem Application, ACS Appl. Mater. Interfaces, 8 (6) 3969-3976 (2016),

**198.** J. Murray, R. Perry, J. G.Terry, S. Smith, A. R. Mount, A. J. Walton, Chip level characterisation studies of Ni and NiFe electrochemical deposition using test structures, 2016 IEEE International Conference on Microelectronic Test Structures, Article number 7476203, 178-183 (2016)

**86. Krastev I.,** Baumgaertner M., Raub Ch. J.. Stromoszillationen bei der galvanischen Abscheidung Untersuchungen zur Silber-Antimon-Legierungsabscheidung, Teil 2. 46:115–120. Metalloberflaeche, 46, Hansen Verlag Muenchen, 1992, 115-120

Цумура се в:

**199.** V.D Jovic, Chapter 7 Electrodeposited Alloys and Multilayered Structures in Popov, K.I.; Djokic S.S.; Nikolic, N.D.; Jovic, V.D., Morphology of electrochemically and chemically deposited metals, © Springer International Publishing Switzerland 2016, ISBN 978-3-319-26071-6 ISBN 978-3-319-26073-0 (eBook) DOI 10.1007/978-3-319-26073-0.

**87. Krastev I.** Stromoszillationen bei der galvanischen Abscheidung Untersuchungen zur Silber-Antimon-Legierungsabscheidung, Teil 1:. Metalloberflaeche, 46, Hansen Verlag Muenchen, 1992, 63-66

Цумура се в:

**200.** V.D Jovic, Chapter 7 Electrodeposited Alloys and Multilayered Structures in Popov, K.I.; Djokic S.S.; Nikolic, N.D.; Jovic, V.D., Morphology of electrochemically and chemically deposited metals, © Springer International Publishing Switzerland 2016, ISBN 978-3-319-26071-6 ISBN 978-3-319-26073-0 (eBook) DOI 10.1007/978-3-319-26073-0.

**88. Stoychev, D.,** Vitanova, I., Buyukliev, R., Petkova, N., Popova, I., Pojarliev, I.. Effect of the structure of aromatic disulphides on some physico-mechanical properties of electrodeposited copper coatings. Journal of Applied Electrochemistry, 22, 10, Elsevier, 1992, ISSN:0021-891X, 987-990. ISI IF:2.409

Цумура се в:

**201.** Ren Jianhua, Zhu Zengwei, Zhu Di, Effects of process parameters on mechanical properties of abrasive-assisted electroformed nickel, Chinese Journal of Aeronautics • June 2016, Impact Factor: 1.07 • DOI: 10.1016/j.cja.2016.05.001

**89. Tomov, I., Monev, M., Michailov, M.,** Rashkov, S. "X-ray Diffraction Study of Anisotropy by the Formation and Decomposition of Nickel Hydride", Part II: Decomposition Kinetics. Journal of Applied Electrochemistry, 1, 22, Springer, 1992, DOI:doi: 10.1007/BF01093015, 82-86. SJR:0.676

Цумура се в:

202. Teus S. "Precipitation reactions in nickel-hydrogen system: Ab initio study" Metallofizika i Noveishie Tekhnologii, Volume 38, Issue 6, 2016, Pages 737-750

90. K. Bade, V. Tsakova, J.W. Schultze. Nucleation, growth and branching of polyaniline from microelectrode experiments. Electrochimica Acta, 1992

Цумура се в:

203. M. Braglia, I.V. Ferrari, F. Vacandio, P. Knauth, M.L. Di Vona, Anodic Electropolymerization of Sulfonated Poly(phenyl ether): Study of Precursor Isomers and Polymer Growth, Chem. Select, 1, (2016) 3114 – 3119.

204. N.L. Ritzert, T.P. Moffat, Ultramicroelectrode Studies of Self-Terminated Nickel Electrodeposition and Nickel Hydroxide Formation upon Water Reduction, J. Phys. Chem. C, 48 (2016) 27478-27489

---

1993

---

91. A. Milchev, W. Paul, K. Binder. A new off-lattice Monte Carlo model for polymers: A comparison of static and dynamic properties with the bond-fluctuation model and application to random media .. 1993

Цумура се в:

205. Baschnagel, J., Meyer, H., Wittmer, J., Kulic~G, I., Mohrbach, H., Ziebert, F., Nam, G.-M., Lee, N.-K., Johner, A. Semiflexible Chains at Surfaces: Worm-Like Chains and beyond (2016) Polymers, 8 (8), art. no. 286, Everaers, R.,

206. Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew" (2016) Chemistry, 25 (1), pp. 35-67

92. Dobreva, A., Gutzow, I. Activity of substrates in the catalyzed nucleation of glass-forming melts. II. Experimental evidence. Journal of Non-Crystalline Solids, 162, 2-Jan, Elsevier, 1993, ISSN:223093, DOI:10.1016/0022-3093(93)90737-I, 13-25. ISI IF:1.766

Цумура се в:

207. Terzopoulou, Zoe, et al. "Mechanical, thermal and decomposition behavior of poly ( $\epsilon$ -caprolactone) nanocomposites with clay-supported carbon nanotube hybrids." Thermochemica Acta 642 (2016): 67-80.

208. Tarani, E., et al. "Effect of graphene nanoplatelets diameter on non-isothermal crystallization kinetics and melting behavior of high density polyethylene nanocomposites." Thermochemica Acta 643 (2016): 94-103.

209. Silverman, Tyler, et al. "Morphology and thermal properties of biodegradable poly (hydroxybutyrate-co-hydroxyvalerate)/tungsten disulphide inorganic nanotube nanocomposites." Materials Chemistry and Physics 170 (2016): 145-153.

210. Chen, Jianxiang, et al. "Nucleation of a Thermoplastic Polyester Elastomer Controlled by Silica Nanoparticles." Industrial & Engineering Chemistry Research 55.18 (2016): 5279-5286.

211. Wang, Yuhai, et al. "Crystallization and melting behavior of poly (butylene succinate)/silicon nitride composites: The influence of filler's phase structure." Thermochemica Acta 627 (2016): 68-76.

212. Shen, Tianfeng, et al. "Enhanced crystallization kinetics of poly (lactide) with oxalamide

compounds as nucleators: effect of spacer length between the oxalamide moieties." RSC Advances 6.54 (2016): 48365-48374.

213. Mao, Hanjun, et al. "Largely restricted nucleation effect of carbon nanotubes in a miscible poly (vinylidene fluoride)/poly (butylene succinate) blend." Polymer International 65.12 (2016): 1417-1429.
  214. Manchanda, Bindu, et al. "Effect of sepiolite on nonisothermal crystallization kinetics of polypropylene." Journal of Materials Science 51.21 (2016): 9535-9550.
  215. Lv, Qiaolian, et al. "Crystallization of poly ( $\epsilon$ -caprolactone) in its immiscible blend with polylactide: insight into the role of annealing histories." RSC Advances 6.44 (2016): 37721-37730.
  216. Asadi, Vahid, et al. "Poly (ethylene succinate) nanocomposites containing inorganic WS 2 nanotubes with improved thermal properties: A kinetic study." Composites Part B: Engineering 98 (2016): 496-507.
  217. Perez, C. J., and V. A. Alvarez. "Ternary composites based on HDPE and Mater-Bi reinforced with hemp fibres." Journal of Thermal Analysis and Calorimetry 124.1 (2016): 499-508.
  218. Ou, Baoli, Meilong Chen, and Hu zhou. "Non-Isothermal Crystallization and Melting Behaviors of PP/PA6/TiO<sub>2</sub> Nanocomposites." Polymer-Plastics Technology and Engineering just-accepted (2016).
  219. Kodal, Mehmet, Humeyra Sirin, and Guralp Ozkoc. "Investigation of relationship between crystallization kinetics and interfacial interactions in plasticized poly (lactic acid)/POSS nanocomposites: "Effects of different POSS types". Polymer Composites (2016).
  220. Zhang, Rui, et al. "Crystallization Kinetics of Functionalized Fe<sub>3</sub>O<sub>4</sub>/Ethylene-vinyl Acetate Copolymer Nanocomposites Adhesives." Journal of Macromolecular Science, Part B 55.1 (2016): 55-72.
  221. Xing, Shili, et al. "In situ polymerization of poly (styrene-alt-maleic anhydride)/organic montmorillonite nanocomposites and their ionomers as crystallization nucleating agents for poly (ethylene terephthalate)." Journal of Industrial and Engineering Chemistry 38 (2016): 167-174.
  222. Fernández Gallego, Miriam. "Nuevos materiales nanocompuestos basados en poli (L-Ácido Láctico), hidroxiapatita y nanotubos inorgánicos con potenciales aplicaciones biomédicas." (2016).
93. Dobрева, A., **Gutzow, I.** Activity of substrates in the catalyzed nucleation of glass-forming melts. I. Theory. Journal of Non-Crystalline Solids, 162, 2-Jan, Elsevier, 1993, ISSN:223093, DOI:10.1016/0022-3093(93)90736-H, 1-12. ISI IF:1.766

Цитира се в:

223. Terzopoulou, Zoe, et al. "Mechanical, thermal and decomposition behavior of poly ( $\epsilon$ -caprolactone) nanocomposites with clay-supported carbon nanotube hybrids." Thermochemica Acta 642 (2016): 67-80.
224. Tarani, E., et al. "Effect of graphene nanoplatelets diameter on non-isothermal crystallization kinetics and melting behavior of high density polyethylene nanocomposites." Thermochemica Acta 643 (2016): 94-103.
225. Silverman, Tyler, et al. "Morphology and thermal properties of biodegradable poly (hydroxybutyrate-co-hydroxyvalerate)/tungsten disulphide inorganic nanotube nanocomposites." Materials Chemistry and Physics 170 (2016): 145-153.
226. Chen, Jianxiang, et al. "Nucleation of a Thermoplastic Polyester Elastomer Controlled by Silica



Nanoparticles." *Industrial & Engineering Chemistry Research* 55.18 (2016): 5279-5286.

227. Lv, Qiaolian, et al. "The role of nanocrystalline cellulose during crystallization of poly ( $\epsilon$ -caprolactone) composites: Nucleation agent or not?". *Composites Part A: Applied Science and Manufacturing* 92 (2017): 17-26.
228. Wang, Yuhai, et al. "Crystallization and melting behavior of poly (butylene succinate)/silicon nitride composites: The influence of filler's phase structure." *Thermochimica Acta* 627 (2016): 68-76.
229. Manchanda, Bindu, et al. "Effect of sepiolite on nonisothermal crystallization kinetics of polypropylene." *Journal of Materials Science* 51.21 (2016): 9535-9550.
230. Lv, Qiaolian, et al. "Crystallization of poly ( $\epsilon$ -caprolactone) in its immiscible blend with polylactide: insight into the role of annealing histories." *RSC Advances* 6.44 (2016): 37721-37730.
231. Asadi, Vahid, et al. "Poly (ethylene succinate) nanocomposites containing inorganic WS 2 nanotubes with improved thermal properties: A kinetic study." *Composites Part B: Engineering* 98 (2016): 496-507.
232. Ou, Baoli, Meilong Chen, and Hu zhou. "Non-Isothermal Crystallization and Melting Behaviors of PP/PA6/TiO<sub>2</sub> Nanocomposites." *Polymer-Plastics Technology and Engineering* just-accepted (2016).
233. Zhang, Rui, et al. "Crystallization Kinetics of Functionalized Fe<sub>3</sub>O<sub>4</sub>/Ethylene-vinyl Acetate Copolymer Nanocomposites Adhesives." *Journal of Macromolecular Science, Part B* 55.1 (2016): 55-72.
234. Xing, Shili, et al. "In situ polymerization of poly (styrene-alt-maleic anhydride)/organic montmorillonite nanocomposites and their ionomers as crystallization nucleating agents for poly (ethylene terephthalate)." *Journal of Industrial and Engineering Chemistry* 38 (2016): 167-174.
235. Yang, Su, et al. "Graphene oxide induced isotactic polypropylene crystallization: role of structural reduction." *RSC Advances* 6.28 (2016): 23930-23941.
94. V. Tsakova, A. Milchev, J.W. Schultze. Growth of polyaniline films under pulse potentiostatic conditions. *Journal of Electroanalytical Chemistry*, 346, Elsevier, 1993, ISSN:1572-6657, 85-97. ISI IF:2.822

Цумура се в:

236. N. Karami, S. Jafari, F. Goli, Synthesis of Aniline – Pyrrole Copolymer Nanostructures by the Pulsed Galvanostatic Polymerization, *Int. J. Electrochem. Sci.*, 11, (2016) 3056 – 3073.
95. van der Leeden, M.C., **Kashchiev, D.**, van Rosmalen, G.M.. "Effect of additives on nucleation rate, crystal growth rate and induction time in precipitation". *Journal of Crystal Growth*, 130, 2-Jan, 1993, ISSN:220248, DOI:10.1016/0022-0248(93)90855-Q, 221-232

Цумура се в:

237. Sun, Shicai, et al. "Stochastic nature of nucleation and growth kinetics of THF hydrate." *The Journal of Chemical Thermodynamics* 107 (2016) 141–152
96. Popov, A., Dimitrov, N., **Kashchiev, D.**, Vitanov, T., Budevski, E.. A model for the structural transformation processes in lead monolayer adsorbate on Ag(111) faces at high coverages. *Electrochimica Acta*, 38, 3-Feb, 1993, ISSN:134686, DOI:10.1016/0013-4686(93)85155-R, 387-391

Цумура се в:

238. Oviedo, Oscar Alejandro, et al. "Experimental Techniques and Structure of the Underpotential Deposition Phase." Underpotential Deposition. Springer International Publishing, 2016. 17-89.
97. Michailova, E., Vitanova, I., **Stoychev, D.**, Milchev, A.. Initial stages of Copper Electrodeposition in presence of organic additives. *Electrochimica Acta*, 38, 16, Elsevier, 1993, DOI:10.1016/0013-4686(93)85116-G, 2455-2458. ISI IF:4.504
- Цитирана се е:*
239. Control of zinc plating solutions, determining the optimum concentration of thiourea additive by electrochemical techniques Mahmud, Z.; Gordillo, G.; Gassa, L.; Ventura D'Alkaine, C. 2016-09 Technical Report Reporte Técnico Facultad de Ciencias Exactas y Naturales Universidad de Buenos Aires <http://digital.bl.fcen.uba.ar/gsd1-282/cgi-bin/library.cgi?p = about&c = technicalreport>
98. **Armyanov S. A.**, Sotirova-Chakarova G. S.. Internal Stress in Electrodeposited Cobalt, Nickel and Their Alloys: Part II. *Metal Finishing*, 91, 3, Elsevier, 1993, ISSN:0026-0576, DOI:нјама, 42-49. ISI IF:0.24
- Цитирана се е:*
240. K. N. Ignatova, Y. S. Marcheva, Effect of saccharine on the properties of Ni-Co alloy coatings deposited in citrate electrolytes, Proc. XXV International Scientific Conference Electronics - ET2016, September 12-14, 2016, Sozopol, Bulgaria, Pages: 1-4, DOI: 10.1109/ET.2016.7753486.
99. **Milchev, A.**, Kruijt, W.S., Sluyters-Rehbach, M., Sluyters, J.H.. Distribution of the nucleation rate in the vicinity of a growing spherical cluster. Part 1. Theory and simulation results. *Journal of Electroanalytical Chemistry*, 362, 1-2, 1993, ISSN:1572-6657, DOI:10.1016/0022-0728(93)80003-Z, 21-31. SJR:0.752
- Цитирана се е:*
241. Popov, K.I., Djokić, S.S., Nikolicć, N.D., Jović, V.D., Morphology of electrochemically and chemically deposited metals, (2016) *Morphology of Electrochemically and Chemically Deposited Metals*, pp. 1-368
100. **A. Milchev**, W. Paul, K. Binder. Off-lattice Monte Carlo simulation of dilute and concentrated polymer solutions under theta conditions.. 1993

*Цитирана се е:*

242. Zierenberg, J., Marenz, M., Janke, W. Dilute Semiflexible Polymers with Attraction: Collapse, Folding and Aggregation (2016) *Polymers*, 8 (9), art. no. 333 10.3390/polym8090333
243. Nelson, E.D., Grishin, N.V. Evolution of off-lattice model proteins under ligand binding constraints (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 94 (2), art. no. 022410, 10.1103/PhysRevE.94.022410
244. Baschnagel, J., Meyer, H., Wittmer, J., Kulic-G, I., Mohrbach, H., Ziebert, F., Nam, G.-M., Lee, N.-K., Johner, A. Semiflexible Chains at Surfaces: Worm-Like Chains and beyond (2016) *Polymers*, 8 (8), art. no. 286, Everaers, R.

101. **Exerowa, D.**, Kakhchiev, D., Platikanov, D., Toshev, B.V.. Linear energy with positive and negative sign. *Advances in Colloid and Interface Science*, 49, C, 1994, ISSN:18686, DOI:10.1016/0001-

Цумура се в:

**245.** Hiroki Matsubara, Takanori Takiue, Makoto Aratono, ...Encyclopedia of Biocolloid and Biointerface Science, 2 vol. Set (Ed. Hiroyuiki Ohshima), "Impact of Line Tension on Colloidal Systems", (2016) 628, ISBN 978-1-118-54276-7

**102. Stoyanova, V., Kashchiev, D.,** Kупенова, Т. Freezing of water droplets seeded with atmospheric aerosols and ice nucleation activity of the aerosols. Journal of Aerosol Science, 25, 5, 1994, ISSN:218502, DOI:10.1016/0021-8502(94)90053-1, 867-877

Цумура се в:

**246.** Novak, M., Sipkova, A., Chrastny, V., Stepanova, M., Voldrichova, P., Veselovsky, F., Prechova, E., Blaha, V., Curik, J., Farkas, J., Erbanova, L., Bohdalkova, L., Pasava, J., Mikova, J., Komarek, A., Krachler, M., Cu-Zn isotope constraints on the provenance of air pollution in Central Europe: Using soluble and insoluble particles in snow and rime, Environmental Pollution 218 (2016) 1135–1146

**103. Avramov, I.** Viscosity of undercooled melts. Journal of Materials Science Letters, 13, 18, Kluwer Academic Publishers, 1994, ISSN:2618028, DOI:10.1007/BF00624498, 1367-1369

Цумура се в:

**247.** KR Harris - Journal of Molecular Liquids, 222 (2016) 520–534, doi:10.1016/j.molliq.2016.07.029

**104. Dimitrov, N., Popov, A., Kashchiev, D.,** Витанов, Т. Temperature dependence of the parameters characterizing the transformation processes in underpotential monolayer adsorbate of lead on Ag(111) at low and high coverages. Electrochimica Acta, 39, 7, 1994, ISSN:134686, DOI:10.1016/0013-4686(94)85112-3, 957-960

Цумура се в:

**248.** Oviedo, Oscar Alejandro, et al. "Experimental Techniques and Structure of the Underpotential Deposition Phase." Underpotential Deposition. Springer International Publishing, 2016. 17-89.

**105. Stojanova E., Popov D., Stoychev D.** "Bildung und Schutzfähigkeit von Oxidschichten auf Aluminium AD-1 und Al-01915". Galvanotechnik, 85, 10, EUGEN G.LEUZE VERLAG,D-88348 SAULGAU (Wurtt.), 1994, ISSN:0016-4232, 3240-3244

Цумура се в:

**249.** NANOSYSTEMS: PHYSICS, CHEMISTRY, MATHEMATICS, 2016, 7 (3), P. 433–450 The use of transient electrolysis in the technology of oxide composite nanostructured materials: review Zh. I. Bepalova, A.V. Khramenkova Platov SouthRussia State Polytechnical University (NPI), Novochoerkassk, Russia anna.vl7@yandex.ru PACS 81.15.z DOI 10.17586/22208054201673433450

**106. Milchev, A., Kruijt, W.S., Sluyters-Rehbach, M., Sluyters, J.H.** Distribution of the nucleation rate in the vicinity of a growing spherical cluster. Part 2. Theory of some special cases and experimental results. Journal of Electroanalytical Chemistry, 371, 1-2, 1994, ISSN:1572-6657, DOI:10.1016/0022-0728(93)03242-H, 13-26. SJR:0.752

Цумура се в:

250. Popov, K.I., Djokić, S.S., Nikolić, N.D., Jović, V.D., Morphology of electrochemically and chemically deposited metals, (2016) Morphology of Electrochemically and Chemically Deposited Metals, pp. 1-368.

107. Krasteva N., Fotty V., **Armyanov S.** Thermal Stability of Ni-P and Ni-Cu-P Amorphous Alloys. Journal of the Electrochemical Society, 141, 10, The Electrochemical Society, Inc., 1994, ISSN:0013-4651, 2864-2867. ISI IF:3.266

Цумура се в:

251. W. A. Badawy, S. A. Fadel-Allah, A. M. Fathi, Influence of Ni–Cu–P Deposits on the Surface Characteristics of Anodized Al, Al2014 and Al7075, Zeitschrift für Physikalische Chemie, 230, (1) 35-50 (2016).

252. Bangwei Zhang, Ch. 8 “Composition and Microstructure Amorphous and Nano Alloys Electroless Depositions”, in “Amorphous and Nano Alloys Electroless Depositions”, 2016, Pages 413-502.

253. Federico Luis Miguel, Design and characterisation of Ni-matrix nanocomposite films reinforced with Ag-coated SnO<sub>2</sub> nanowires for electrical contact applications, Dissertation zur Erlangung des Grades des Doktors der Ingenieurwissenschaften der Naturwissenschaftlich-Technischen Fakultät III Chemie, Pharmazie, Bio- und Werkstoffwissenschaften der Universität des Saarlandes Saarbrücken 2016.

108. Michailova, E., Peykova, M., **Stoychev, D.**, Milchev, A.. On the role of surface active agents in the nucleation step of metal electrodeposition on a foreign substrate. JOURNAL OF ELECTROANALYTICAL CHEMISTRY, 366, 1-2, Elsevier, 1994, DOI:10.1016/0022-0728(93)03228-H, 195-202. ISI IF:2.729

Цумура се в:

254. Paula Sebastián, Luis E. Botello, Elisa Vallés, Jorge Mostany, Three-dimensional nucleation with diffusion controlled growth: A comparative study of electrochemical phase formation from aqueous and deep eutectic solvents, Article · December 2016 DOI: 10.1016/j.jelechem.2016.12.014

109. Lazarov, D., **Alexandrova,L.**, Nishkov, I. Effect of temperature on the kinetics of froth flotation. Minerals Engineering, 7, 1994, 503-509. ISI IF:1.714

Цумура се в:

255. Albrecht, T.W.J., Addai-Mensah, J., Fornasiero, D., Critical copper concentration in sphalerite flotation: Effect of temperature and collector, International Journal of Mineral Processing, 146, 2016, pp. 15-22.

110. **Milchev, A.** Anomalous diffusion and relaxation of collapsed polymer chains. 1994

Цумура се в:

256. Baschnagel, J., Meyer, H., Wittmer, J., Kulic~G, I., Mohrbach, H., Ziebert, F., Nam, G.-M., Lee, N.-K., Johner, A. Semiflexible Chains at Surfaces: Worm-Like Chains and beyond (2016) Polymers, 8 (8), art. no. 286, Everaers, R.,

111. Oxtoby, D.W., **Kashchiev, D.** A general relation between the nucleation work and the size of the nucleus in multicomponent nucleation. The Journal of Chemical Physics, 100, 10, 1994, ISSN:219606, 7665-7671

Цумура се в:

257. Vekilov, Peter G. "Nucleation of protein crystals." *Progress in Crystal Growth and Characterization of Materials* 62 (2) (2016) 136–154
258. Winkler, P. M., et al. "Direct determination of three-phase contact line properties on nearly molecular scale." *Scientific reports* 6 (2016) 26111.
259. Perepezko, J. H., and G. Wilde. "Melt undercooling and nucleation kinetics." *Current Opinion in Solid State and Materials Science* 20.1 (2016): 3-12.
260. Bruot, Nicolas, and Frédéric Caupin. "Curvature Dependence of the Liquid-Vapor Surface Tension beyond the Tolman Approximation." *Physical review letters* 116.5 (2016): 056102.
261. Wyslouzil, Barbara E., and Judith Wölk. "Overview: Homogeneous nucleation from the vapor phase—The experimental science." *The Journal of Chemical Physics* 145.21 (2016): 211702.
262. Desgranges, Caroline, and Jerome Delhomme. "Free energy calculations along entropic pathways. II. Droplet nucleation in binary mixtures." *The Journal of Chemical Physics* 145.23 (2016): 234505.
263. Thieme, Katrin, Isak Avramov, and Christian Rüssel. "The mechanism of deceleration of nucleation and crystal growth by the small addition of transition metals to lithium disilicate glasses." *Scientific reports* 6 (2016) 25451.
264. Sun, Xin, et al. "Kinetics of LPP crystal nucleation and interface morphology studies." *Optik-International Journal for Light and Electron Optics* 127.3 (2016): 1438-1441.
265. Zhukhovitskii, D. I. "Enhancement of the droplet nucleation in a dense supersaturated Lennard-Jones vapor." *The Journal of chemical physics* 144.18 (2016): 184701.
266. Nanev, Christo N., and Kostadin P. Petrov. "Steering a crystallization process to reduce crystal polydispersity; case study of insulin crystallization." *Journal of Crystal Growth* (2016), doi.org/10.1016/j.jcrysgro.2016.11.068

---

1995

---

112. A. Milchev, Y. A. Rouault. Monte-Carlo study of thermodynamic relaxation in living polymers .. 1995

Цумура се в:

267. Deng, B., Shi, Y. A reactive coarse-grained model for polydisperse polymers (2016) *Polymer (United Kingdom)*, 98, pp. 88-99. 10.1016/j.polymer.2016.06.018

113. A. Hörner, A. Milchev, P. Argyrakis. Role of percolation in diffusion on random lattices.. 1995

Цумура се в:

268. Polanowski, P., Sikorski, A. Simulation of Molecular Transport in Systems Containing Mobile Obstacles (2016) *Journal of Physical Chemistry B*, 120 (30), pp. 7529-7537. 10.1021/acs.jpcc.6b02682

114. A. Milchev, K. Binder, V. Yamakov. Monte Carlo study of semiflexible living polymers. 1995

Цумура се в:

269. Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew" (2016) *Chemistry*, 25 (1), pp. 35-67

115. Sedev, R., Kolarov, T., **Exerowa, D.** Surface forces in foam films from ABA block copolymer: a dynamic method study. *Colloid & Polymer Science*, 273, 9, Steinkopff-Verlag, 1995, ISSN:0303402X, DOI:10.1007/BF00657642, 906-911

Цитира се в:

270. Диляна Ст. Иванова, Дисертация, СУ “Св. Климент Охридски”, Факултет по химия и фармация, Катедра “Физикохимия”, “Изгъняване и критична дебелина на пенни филми от водни р-ри на смеси от п-додецил-β-D-малтозид с нейонни и йонни ПАВ”, (2016)

116. Krasteva, N., **Armyanov, S., Georgieva, J.**, Avramova, N., Fotty, V.. Thermal stability of electroless NiMeP amorphous alloys. *Journal of Electronic Materials*, 24, 8, Springer-Verlag, 1995, ISSN:3615235, DOI:10.1007/BF02652965, 941-946

Цитира се в:

271. Bangwei Zhang, Ch. 8 “Composition and Microstructure Amorphous and Nano Alloys Electroless Depositions”, in “Amorphous and Nano Alloys Electroless Depositions”, 2016, Pages 413-502

272. Bangwei Zhang, Ch. 11 “Formation Theory and Formation Range of Electroless Amorphous Alloys” in “Amorphous and Nano Alloys Electroless Depositions”, 2016, Pages 629-691

273. Bangwei Zhang, Ch. 1, History–From the Discovery of Electroless Plating to the Present, In “Amorphous and Nano Alloys Electroless Depositions”, 2016, Pages 3-48

117. Schmelzer, J., Moeller, J., **Gutzow, I., Pascova, R.**, Mueller, R., Pannhorst, W.. Surface energy and structure effects on surface crystallization. *Journal of Non-Crystalline Solids*, 183, 3, Elsevier, 1995, ISSN:223093, 215-233. ISI IF:1.766

Цитира се в:

274. Paucar Álvarez, Carlos Guillermo. "Vidrocerámicos con bajo coeficiente de expansión térmica obtenidos por sinterización con cristalización concurrente en partículas vítreas de Li<sub>2</sub>O. Al<sub>2</sub>O<sub>3</sub>. XSiO<sub>2</sub>." (2016).

275. R.Casasola, J.M. Pérez, M. Romero, L. Pinckney, Crystal Growth of F-Phlogopite from Glasses of the SiO<sub>2</sub>–Al<sub>2</sub>O<sub>3</sub>–MgO–K<sub>2</sub>O–F System *J.Amer.Ceram.Soc.* 99 (2) (2016) 484-491

276. E. Chaichana<sup>1</sup>, P. Rothakit, P. Praserttham, B. Jongsomjit, J. Thai, PE and LLDPE/spherical-silica composite synthesized via in situ polymerization with zirconocene/MAO catalyst *Interdiscipl. Research* 11 (2) (2016) 29-41 (ISSN 2465-3837)

118. **Krastev, I.**, Koper, M.T.M.. Pattern formation during the electrodeposition of a silver-antimony alloy. *Physica A: Statistical Mechanics and its Applications*, 213, 2-Jan, 1995, ISSN:3784371, DOI:10.1016/0378-4371(94)00161-L, 199-208

Цитира се в:

277. В. Цакова, Институтът по физикохимия – носител и продължител на традицията на българската физикохимична школа, *Chemistry, Bulgarian journal of science education*, 25, 1, (2016), 35-67

278. Nagamine, Yuko. "Phase separation between conductive and insulative materials induced by the electric field." *Physical Review E* 94.1 (2016): 010203

119. Popov, A., Dimitrov, N., Vitanov, T., **Kashchiev, D.**, Budevski, E.. Modelling transformation processes in underpotential lead adsorbate on Ag(111). *Electrochimica Acta*, 40, 10, 1995, ISSN:134686,

Цумура се в:

- 279.** Oviedo, Oscar Alejandro, et al. "Experimental Techniques and Structure of the Underpotential Deposition Phase." Underpotential Deposition. Springer International Publishing, 2016. 17-89.

---

1996

---

- 120. Avramov I.** Thermochemica Acta. 280, Elsevier, 1996, ISSN:1872-762X, DOI:10.1016/j.tca.2015.12.002, 363-382. SJR:2.184, ISI IF:2.184

Цумура се в:

- 280.** Souiri, D., Zaliani, H., Mirdawoodi, E., Zendezhaban, M., Measurement: Journal of the International Measurement Confederation (2016), 82 pp. 19 - 25 .

- 281.** Souiri, D; Zaliani, H; Mirdawoodi, E; Zendezhaban, M, MEASUREMENT, 82 19-25; 10.1016/j.measurement.2015.12.026 MAR 2016

- 121. Markov, I.** Method for evaluation of the Ehrlich-Schwoebel barrier to interlayer transport in metal homoepitaxy. Physical Review B - Condensed Matter and Materials Physics, 54, 24, 1996, ISSN:1631829, 17930-17937

Цумура се в:

- 282.** Palczynski, Karol, et al. "Characterization of step-edge barrier crossing of para-sexiphenyl on the ZnO (101 [combining macron] 0) surface." Physical Chemistry Chemical Physics 18.36 (2016): 25329-25341.

- 122. Stoychev, D.,** Tsvetanov, C.. Behaviour of poly(ethylene glycol) during electrodeposition of bright copper coatings in sulfuric acid electrolytes. Journal of Applied Electrochemistry, 26, 7, 1996, ISSN:0021891X, 741-749

Цумура се в:

- 283.** Biao CHEN, Anyin WANG, Shengying WU, \* and Limin WANG\*, Polyquaternium-2: A New Levelling Agent for Copper Electroplating from Acidic Sulphate Bath, Electrochemistry ( The Electrochemical Society of Japan), Vol. 84 (2016) No. 6 p. 414-419 (2016) <http://dx.doi.org/10.5796/electrochemistry.84.414> <http://doi.org/10.5796/electrochemistry.84.414>

- 284.** Electrochimica Acta Volume 212, 10 September 2016, Pages 572–582 Effects of Brighteners in a Copper Plating Bath on Throwing Power and Thermal Reliability of Plated Through Holes Tzu-Chi Chena, Yao-Lin Tsaia, Chia-Fu Hsua, Wei-Ping Dowa, 1,, , Yasuo Hashimoto doi:10.1016/j.electacta.2016.07.007

- 123. A. Milchev.** Simulation studies on the dynamics of polymers at interfaces. 1996

Цумура се в:

- 285.** Li, H., Chen, G., Das, S. Electric double layer electrostatics of pH-responsive spherical polyelectrolyte brushes in the decoupled regime (2016) Colloids and Surfaces B: Biointerfaces, 147, pp. 180-190. 10.1016/j.colsurfb.2016.07.049

- 124. Stoychev, D., Bratoeva, M.,** Stoycheva, M., Giurkovsky, S.. Influence of the Nd-laser irradiation on the phase composition and structure of iron alloys. Transactions of the Institute of Metal Finishing, 74, 5,

Цумура ce в:

**286.** Journal of Materials Science & Technology Available online 26 September 2016 In Press, Corrected Proof Selective Laser Melting of an Al–Fe–V–Si Alloy: Microstructural Evolution and Thermal Stability Shao-Bo Sun<sup>1</sup>, Li-Jing Zheng<sup>1</sup>, , Jin-Hui Liu<sup>2</sup>, Hu Zhang<sup>1</sup>  
<http://dx.doi.org/10.1016/j.jmst.2016.09.015>

**125.** Schmelzer, J., **Gutzow, I.**, Mueller, J., **Pascova, R.** Surface induced devitrification of glasses: The influence of elastic strains. *Berichte der Bunsengesellschaft/Physical Chemistry Chemical Physics*, 100, 9, Wiley, 1996, ISSN:0940483X, 1431-1433. ISI IF:0.1

Цумура ce в:

**287.** D. Savytskii, B. Knorr, V. Dierolf, H. Jain, Laser-induced growth of oriented Sb<sub>2</sub>S<sub>3</sub> single crystal dots on the surface of 82SbSI–18Sb<sub>2</sub>S<sub>3</sub> glasses, *Journal of Non-Crystalline Solids* 431 (2016) 36–40, <http://dx.doi.org/10.1016/j.jnoncrysol.2015.03.007>

**126.** Kourtev, J., **Pascova, R.**, Weissmantel, E.. Arc evaporated Ti- N films with reduced macroparticle contamination. *Thin Solid Films*, 287, 1-2, Elsevier, 1996, ISSN:0040-6090, DOI:10.1016/S0040-6090(96)08751-2, 202-207. ISI IF:1.922

Цумура ce в:

**288.** H.-Z. Zeng, H. Wang, J. Shen, Arc Ion Plating with Gradient Bias Voltage Deposition and Mechanical Properties of TiN Coatings, *Surf. Technol.* 45 (2) (2016) 79-83.

**127.** Nikolova, A., Koynova, R., Tenchov, B., **Exerowa, D.** Chain-melting phase transition in dipalmitoylphosphatidylcholine foam bilayers. *Chemistry and Physics of Lipids*, 83, 2, 1996, ISSN:93084, DOI:10.1016/0009-3084(96)02600-X, 111-121

Цумура ce в:

**289.** Ortiz-Collazos, Stephanie; Goncalves, Yan M. H.; Horta, Bruno A. C.; et al., Langmuir films and mechanical properties of polyethyleneglycol fatty acid esters at the air-water interface, *Colloids & Surfaces A.*, 498 (2016) 50-57

**128.** **Kashchiev, D.** Effect of carrier-gas pressure on nucleation. *Journal of Chemical Physics*, 104, 21, 1996, ISSN:219606, 8671-8677

Цумура ce в:

**290.** Wyslouzil, Barbara E., and Judith Wölk. "Overview: Homogeneous nucleation from the vapor phase—The experimental science." *The Journal of Chemical Physics* 145.21 (2016): 211702.

**129.** Schmelzer, J.W.P., **Gutzow, I.**, Schmelzer Jr. J.. Curvature-dependent surface tension and nucleation theory. *Journal of Colloid and Interface Science*, 178, 2, 1996, ISSN:219797, DOI:10.1006/jcis.1996.0163, 657-665. ISI IF:3.368

Цумура ce в:

**291.** Hritz, Andrew D., Timothy M. Raymond, and Dabrina D. Dutcher. "A method for the direct measurement of surface tension of collected atmospherically relevant aerosol particles using atomic force microscopy." *Atmospheric Chemistry and Physics* 16.15 (2016): 9761-9769.

**292.** Wang, Yang, et al. "Surface property and enhanced oil recovery study of foam aqueous dispersions comprised of surfactants–organic acids–nanoparticles." *RSC Advances* 6.114 (2016):



- 130.** Rashkov, St., Stefanov, Y., Noncheva, Z., **Petrova, M.**, Dobrev, Ts., Kunchev, N., Petrov, D., Vlaev, St., Mihnev, V., Zarev, S., Georgieva, L., Buttinelli, D.. "Investigation of the processes of obtaining plastic treatment and electrochemical behaviour of lead alloys in their capacity as anodes during the electro-extraction of zinc II. Electrochemical formation of phase layers on binary Pb-Ag and Pb-Ca, and. Hydrometallurgy, 40, 3, 1996, ISSN:0304386X, DOI:10.1016/0304-386X(95)00010-E, 319-334

Цумура се в:

- 293.** He S., Xu R., Hu G., Chen B., "Electrosynthesis and performance of WC and Co<sub>3</sub>O<sub>4</sub> co-doped  $\alpha$ -PbO<sub>2</sub> electrodes", RSC Advances, 6 (4), pp. 3362-3371 (2016)
- 294.** He S., Xu R., Wang J., Han S., Chen B., "Preparation and electrochemical properties of Pb-0.3wt%Ag/Pb-WC composite inert anodes", Journal Wuhan University of Technology, Materials Science Edition, 31 (4), pp. 811-817 (2016)

- 131. Milchev, A., Binder, K..** Static and dynamic properties of adsorbed chains at surfaces: Monte Carlo simulation of a bead-spring model. Macromolecules, 29, 1, 1996, ISSN:249297, 343-354

Цумура се в:

- 295.** Li, C.-Y., Cao, W.-P., Luo, M.-B., Li, H. Adsorption of polymer on an attractive nano-sized particle (2016) Colloid and Polymer Science, 294 (6), pp. 1001-1009. 10.1007/s00396-016-3858-y
- 296.** Costa, L.I. Meaningful timescales from Monte Carlo simulations of particle systems with hard-core interactions (2016) Journal of Computational Physics, 326, pp. 773-779. 10.1016/j.jcp.2016.09.023
- 297.** Yang, Q.-H., Luo, M.-B. Dynamics of adsorbed polymers on attractive homogeneous surfaces (2016) Scientific Reports, 6, art. no. 37156
- 298.** Yang, Q.-H., Wu, F., Wang, Q., Luo, M.-B. Simulation study on the coil-globule transition of adsorbed polymers (2016) Journal of Polymer Science, Part B: Polymer Physics, 54 (22), pp. 2359-2367. 10.1002/polb.24149
- 299.** Ziebarth, J.D., Wang, Y. Interactions of complex polymers with nanoporous substrate (2016) Soft Matter, 12 (24), pp. 5245-5256. 10.1039/c6sm00768f

- 132. Milchev, A., Binder, K..** Dynamics of polymer chains confined in slit-like pores. Journal de Physique II, 6, 1, 1996, ISSN:11554312, 21-31

Цумура се в:

- 300.** Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaishev" (2016) Chemistry, 25 (1), pp. 35-67

---

## 1997

---

- 133. Stoyanova, E., Stoychev, D..** Electrochemical aspects of the immersion treatment of aluminium. Journal of Applied Electrochemistry, 27, 6, 1997, ISSN:0021891X, 685-690. ISI IF:2.409

Цумура се в:

- 301.** Effect of alkali etching solution concentration on secondary zinc dipping on pur ealuminum surface ZHANG Jian, CHEN Guohong, WANG Ruoming, MIAO Chunhui, ZHENG Zhixiang,

TANG Wenming 文章编号: 1001G9731(2016)05G05201G06

▪ 关键词: 纯铝;碱蚀液;二次浸锌;腐蚀机理;表面形貌 中图分类号: TQ153.1

文献标识码:A

DOI: 10.3969/j.issn.1001G9731.2016.05.038

- 302.** 碱蚀液浓度对纯铝表面二次浸锌的影响 张健, 陈国宏, 王若民, 缪春辉, 郑治祥... - 功能材料, 2016 - manu50.magtech.com.cn 摘要: 二次浸Zn 是Al 材电镀的前处理工艺. Al 材碱蚀不当, 将对浸Zn 乃至后续的电镀过程产生 十分不利的影响. 研究了在不同浓度NaOH 碱蚀液中碱蚀粗化后的纯Al 基材及随后二次浸Zn 层的表面形貌, 并考察了Al 材表面电镀Cu 层的质量. 结果表明, 当碱蚀液浓度20g/L, Citeren OpslaanOpslaan...OpgeslagenFout bij het opslaan. Opnieuw proberen? Meer
- 303.** [PDF][PDF] РОЛЬ КУРСА МАТЕМАТИКИ В ФОРМИРОВАНИИ БУДУЩЕГО ПРЕПОДАВАТЕЛЯ ХИМИИ THE ROLE OF MATHEMATICS COURSE IN THE FORMATION ... ЮВ Абраменкова, У Донецк - ... университета (от 9 июня 2016 г. протокол № ... - elib.bsu.by ... Шутова.- М.: МГУ, 1993.-196 с. 5. Stoyanova E. Electrochemical aspects of the immersion treatment of aluminium/E. Stoyanova, D. Stoychev//J. Appl. Electrochem.- 1997.-Vol. 27.- P. 685-690. 6. Воробьева ТН Получение пленок ... [PDF] от bsu.by
- 304.** Zinc regeneration in rechargeable zinc-air fuel cells—A review Journal of Energy Storage Volume 8, November 2016, Pages 35–50 Aaron L. Zhua, David P. Wilkinsonb, Xinge Zhangc,, , Yalan Xingd, Alex G. Rozhine, Sergei A. Kuliniche <http://dx.doi.org/10.1016/j.est.2016.09.007> DOI: 10.1016/j.est.2016.09.007 1st Sergei A Kulinich 37.93 · Tokai University 2nd Aaron L. Zhu 28.1 · University of British Columbia - Vancouver 3rd David P Wilkinson Last Alex R Rozhin
- 134. Gutzow, I., Durschang, B., Rüssel, C..** Crystallization of glassforming melts under hydrostatic pressure and shear stress: Part I Crystallization catalysis under hydrostatic pressure: Possibilities and limitations. Journal of Materials Science, 32, 20, 1997, ISSN:222461, 5389-5403. ISI IF:2.371

Цитирана се в:

- 305.** Grzybowska, Katarzyna, Simone Capaccioli, and Marian Paluch. "Recent developments in the experimental investigations of relaxations in pharmaceuticals by dielectric techniques at ambient and elevated pressure." Advanced drug delivery reviews 100 (2016): 158-182.
- 306.** Jabbari, M., et al. "Ceramic tape casting: A review of current methods and trends with emphasis on rheological behaviour and flow analysis." Materials Science and Engineering: B 212 (2016): 39-61.
- 307.** Koperwas, Kajetan, et al. "Glass-Forming Tendency of Molecular Liquids and the Strength of the Intermolecular Attractions." Scientific Reports 6 (2016).
- 308.** Zulkurnain, Musfirah, Farnaz Maleky, and V. M. Balasubramaniam. "High pressure processing effects on lipids thermophysical properties and crystallization kinetics." Food Engineering Reviews 8.4 (2016): 393-413.
- 309.** Adrjanowicz, Karolina, et al. "Exploring the Crystallization Tendency of Glass-Forming Liquid Indomethacin in the T-p Plane by Finding Different Iso-Invariant Points." Crystal Growth & Design (2016).
- 310.** Schmelzer, Jörn WP, Alexander S. Abyzov, and Vladimir M. Fokin. "Thermodynamic Aspects of Pressure-Induced Crystallization: Kauzmann Pressure." International Journal of Applied Glass page 34/197

Science 7.4 (2016): 474-485.

311. 최현우, et al. "Lithium disilicate 유리의 입자크기에 따른 결정화 기구." 한국재료학회지 26.1 (2016): 54-60.

135. **Armyanov, S.**, Vitkova, S., Blajiev, O.. Internal stress and magnetic properties of electrodeposited amorphous Fe-P alloys. Journal of Applied Electrochemistry, 27, 2, 1997, ISSN:0021891X, 185-191

Цумура ce в:

312. L. Elias, U. K. Bhat, A. Chitharanjan Hegde, Development of nanolaminated multilayer Ni-P alloy coatings for better corrosion protection, RSC Adv., 6, 34005-34013 (2016), DOI: 10.1039/C6RA01547F

313. Y. Wu, M. Han, Electrodeposited Fe-P nanowire arrays in hard-anodic aluminum oxide templates with controllable magnetic properties by thermal annealing, J. Alloys Compounds, 688, 783-789 (2016).

314. M. Hirao, H. Ogi, Elastic Constants and Internal Friction of Advanced Materials, Chapter 7 in "Electromagnetic Acoustic Transducers", Springer, 133-191 (2016).

136. **Markov, I.** Surface energetics from the transition from step-flow growth to two-dimensional nucleation in metal homoepitaxy. Physical Review B - Condensed Matter and Materials Physics, 56, 19, 1997, ISSN:1631829, 12544-12552

Цумура ce в:

315. Rogilo, D. I., et al. "2D Si island nucleation on the Si (111) surface at initial and late growth stages: On the role of step permeability in pyramidlike growth." Journal of Crystal Growth 457 (2016) 188–195.

137. **Milchev, A.**, Binder, K.. Dewetting of thin polymer films adsorbed on solid substrates: A Monte Carlo simulation of the early stages. Journal of Chemical Physics, 106, 5, 1997, ISSN:219606, 1978-1989

Цумура ce в:

316. Cheng, G., Perahia, D. Dewetting and microphase separation in symmetric polystyrene-block-polyisoprene diblock copolymer ultrathin films (2016) Polymer International, 65 (1), pp. 39-47. 10.1002/pi.5022

138. Wollschlaeger, J., Schaefer, F., Erdoes, D., Sroeder, K. M., **Michailov, M.**, Henzler, M.. "Epitaxial Growth of Mg on Pd(100) and Ag(100): Growth Modes for Complete and Incomplete Adlayer Condensation". Surface Diffusion: Atomistic and Collective Processes, 360, PLENUM PRESS, New York., 1997, ISBN:978-1-4899-0264-1, DOI:10.1007/978-1-4899-0262-7\_21, 9, 235-244. ISI IF:3

Цумура ce в:

317. Claudius MORCHUTT, PhD Thesis, ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE, EPFL, Lausanne "On-Surface Assembly and Reactions of Organic Molecules in Ultra-High Vacuum"

139. **Khrystov, Khr.**, **Exerowa, D.** Foam Stabilizing Properties of Surfactants Determined at Constant and Variable Pressure in the Foam Liquid Phase. J. Dispersion Sci. Technol., 18, 1997, 561-575

Цумура ce в:

318. Sheng, Youjie; Lu, Shouxiang; Xu, Mingjun; et al., Effect of Xanthan Gum on the Performance of Aqueous Film-Forming Foam, J. Dispersion Sci. Technol. 37 11 (2016) 1664-1670.

140. J.P. Wittmer, A. Milchev, M.E. Cates. Dynamical Monte Carlo study of equilibrium polymers: Static properties .. 1998

Цумура се в:

319. Sciortino, F. Basic concepts in self-Assembly (2016) Proceedings of the International School of Physics "Enrico Fermi", 193, pp. 1-17. 10.3254/978-1-61499-662-0-1
320. Morisue, M., Hoshino, Y., Shimizu, M., Uemura, S., Sakurai, S. A Tightly Stretched Ultralong Supramolecular Multiporphyrin Array Propagated by Double-Strand Formation (2016) Chemistry - A European Journal, 22 (37), pp. 13019-13022.10.1002/chem.201602968
321. Wittmer, J.P., Kriuchevskiy, I., Cavallo, A., Xu, H., Baschnagel, J. Shear-stress fluctuations in self-assembled transient elastic networks (2016) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 93 (6), art. no. 062611, 10.1103/PhysRevE.93.

141. Monev, M., Mirkova, L., Krastev, I., Tsvetkova, Hr., Rashkov, St., Richtering, W.. Effect of brighteners on hydrogen evolution during zinc electroplating from zincate electrolytes. Journal of Applied Electrochemistry, 28, 10, 1998, ISSN:0021891X, 1107-1112

Цумура се в:

322. G.P. Rajarathnam, A.M. Vassallo Zinc Electrodeposition Morphology, Chapter The Zinc/Bromine Flow Battery, Part of the series Springer Briefs in Energy 12 January, 45-62
323. T. Furuhashi, Y. Yamada, S. Ichihara, A. Takai, H. Usui Electroless plating of Ni thin films using foam of electrolyte Japanese Journal of Applied Physics, 55 (2) (2016) Article number 02BC06
324. Aaron L. Zhu, David P. Wilkinson, Xinge Zhang, Yalan Xing, Alex G. Rozhin, Sergei A. Kulinich Zinc regeneration in rechargeable zinc-air fuel cells—A review Journal of Energy Storage, 8 (2016) 35–50.
325. Zhu, A.L, Wilkinson, D.P., Zhang, X., Xing, Y., Rozhin, A.G., Kulinich, S.A., Zinc regeneration in rechargeable zinc-air fuel cells - A review, Journal of Energy storage, 8, (2016), 35-50
326. Rajarathnam, Gobinath Pillai, and Anthony Michael Vassallo. "Zinc Electrodeposition Morphology." The Zinc/Bromine Flow Battery. Springer Singapore, 2016. 45-62

142. V. Tsakova, A. Milchev. Spatial distribution of electrochemically deposited clusters: a simulation study. Journal of Electroanalytical Chemistry, 451, Elsevier, 1998, ISSN:1572-6657, 211-218. ISI IF:2.822

Цумура се в:

327. A. C. Frank, Simulações de Monte Carlo Cinético dos primeiros estágios da eletrodeposição de Co e Cu, PhD Thesis, USP, Brazil 2016.

143. Kashchiev, D., Sato, K.. Kinetics of crystallization preceded by metastable-phase formation. Journal of Chemical Physics, 109, 19, 1998, ISSN:219606, DOI:10.1063/1.477519, 8530-8540

Цумура се в:

328. Nikolakakis, Ioannis, and Kyriakos Kachrimanis. "Crystallization kinetics of orthorhombic paracetamol from supercooled melts studied by non-isothermal DSC." Drug Development and Industrial Pharmacy (2016): 1-7.

144. **Kashchiev, D.**, Kaneko, N., Sato, K.. Kinetics of crystallization in polydisperse emulsions. Journal of Colloid and Interface Science, 208, 1, 1998, ISSN:219797, DOI:10.1006/jcis.1998.5760, 167-177

Цумура се в:

329. Cheng, Zhengdong. "Colloidal Crystallization." Fluids, Colloids, and Soft Materials: An Introduction to Soft Matter Physics 7 (2016): 203.
330. Wang, Yang, and Xu-guang Wang. "Crystallization of Interphase Droplets in Emulsion Explosive Matrices." Journal of Dispersion Science and Technology just-accepted (2016), doi.org/10.1080/01932691.2016.1255954

145. **Gutzow, I., Pascova, R., Karamanov, A.**, Schmelzer, J.. The kinetics of surface induced sinter crystallization and the formation of glass-ceramic materials. Journal of Materials Science, 33, 21, 1998, ISSN:222461, 5265-5273. ISI IF:2.371

Цумура се в:

331. V. Tsakova, Chemistry 25 (1) (2016) 35 -67
332. A. Rincón, M. Marangoni, S. Cetin, E. Bernardo, Recycling of inorganic waste in monolithic and cellular glass-based materials for structural and functional applications J.Chem.Technol.Biotechnol. 91 (7) (2016) 1946-1961.
333. M. Marangoni, I. Ponsot, B. Cicek, E. Bernardo, Double-layer waste-derived glass-ceramics prepared by low temperature sintering/sinter- crystallisation Adv.Appl.Ceram. 115 (7) (2016) 427-434.
334. A.A Francis, M.K. Abdel Rahman, Transforming submerged-arc welding slags into magnetic glass-ceramics Int.J.Sustainable Eng. 9 (6) (2016) 411-418.

146. Nakabayashi, S., **Krastev, I.**, Aogaki, R., Inokuma, K.. Electrochemical instability of Ag/Sb co-deposition coupled with a magnetohydrodynamic flow. Chemical Physics Letters, 294, 3-Jan, 1998, ISSN:92614, 204-208

Цумура се в:

335. V.D Jovic, Chapter 7 Electrodeposited Alloys and Multilayered Structures in Popov, K.I.; Djokic S.S.; Nikolic, N.D.; Jovic, V.D., Morphology of electrochemically and chemically deposited metals, © Springer International Publishing Switzerland 2016, ISBN 978-3-319-26071-6 ISBN 978-3-319-26073-0 (eBook) DOI 10.1007/978-3-319-26073-0.

147. **Avramov, I.** Viscosity of glassforming melts. Journal of Non-Crystalline Solids, 238, 2-Jan, 1998, ISSN:223093, 6-10

Цумура се в:

336. Lee, S.C., Brueck, S.R.J., Crystal Growth and Design, 16 ( 7 ) (2016) pp. 3669 - 3676 .
337. Kondratiev, A; Khvan, AV, JOURNAL OF NON-CRYSTALLINE SOLIDS, 432 366-383; 10.1016/j.jnoncrysol.2015.10.033 B JAN 15 2016
338. Lejun Zhou, Wanlin Wang, Metallurgical and Materials Transactions B 478 (3):1548-1552 2016, DOI:10.1007/s11663-016-0651-8

148. **Stoyanov, S., Tonchev, V.** Properties and dynamic interaction of step density waves at a crystal surface during electromigration affected sublimation. Physical Review B - Condensed Matter and Materials Physics, 58, 3, 1998, ISSN:1631829, DOI:10.1103/PhysRevB.58.1590, 1590-1600. ISI IF:3.718

Цитира се в:

**339.** V. Tsakova, The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew, Chemistry, Volume 25, Issue 1, 2016, Pages 35-67.

**340.** А.В. Огнев, Анизотропия и микромагнитная структура низкоразмерных ферромагнетиков, Специальность 01.04.11. – Физика магнитных явлений, Диссертация на соискание учёной степени доктора физико-математических наук, Владивосток – 2016.

**149.** **Milchev, A.** Electrochemical nucleation on active sites - What do we measure in reality? Part II. Journal of Electroanalytical Chemistry, 457, 1-2, 1998, ISSN:1572-6657, DOI:10.1016/S0022-0728(98)00106-5, 47-52. SJR:0.752

Цитира се в:

**341.** Ustarroz, J., Hubin, A., Terryn, H., New insights in nanoelectrodeposition: An electrochemical aggregative growth mechanism, (2016) Handbook of Nanoelectrochemistry: Electrochemical Synthesis Methods, Properties, and Characterization Techniques, pp. 1349-1378.

**150.** **Exerowa, D.**, Kruglyakov, P.M.. Foam and foam films. Elsevier Science, 1998, 773

Цитира се в:

**342.** McFadzean, B.; Marozva, T.; Wiese, J., Flotation frother mixtures: Decoupling the sub-processes of froth stability, froth recovery and entrainment, Minerals Engin. 85 (2016) 72-79.

**343.** Sett, Soumyadip; Sahu, Rakesh P.; Sinha-Ray, Suman; et al., Experimental Investigation of Eletrokinetic Stabilization of Gravitational Drainage of Ionic Surfactants Films, Electrochimica Acta 187 (2016) 693-703.

**344.** Kowalczuk, Przemyslaw B.; Zawala, Jan; Kosior, Dominik; et al., Three-Phase Contact Formation and Flotation of Highly Hydrophobic Polytetrafluoroethylene in the Presence of Increased Dose of Frothers, Industrial & Engin. Chem. Research 55 3 (2016) 839-843.

**345.** Lu, Xinxiao; Wang, Deming; Shi, Guoqing; et al., Experimental Investigation on Flow Characteristics of Aqueous Foams through the Jet Device and Horizontal Pipe, J. Dispersion Sci. Technol. 37 4 (2016) 536-543.

**346.** Wang, Jianlong; Nguyen, Anh V.; Farrokhpay, Saeed, A critical review of the growth, drainage and collapse of foams, Adv. Colloid and Interface Sci. 228 (2016) 55-70.

**347.** Alimadadi, Majid; Uesaka, Tetsu, 3D-oriented fiber networks made by foam forming, Cellulose 23 1 (2016) 661-671.

**348.** Wang, Jianlong; Nguyen, Anh V.; Farrokhpay, Saeed, Foamability of sodium dodecyl sulfate solutions: Anomalous effect of dodecanol unexplained by conventional theories, Colloids and Surfaces A 495 (2016) 110-117.

**349.** Aricov, L., Petkova, H., Arabadzhieva, D., Iovescu, A., Mileva, E., Khristov, K., Stinga, G., Mihailescu, C.F., Anghel, D.F., Todorov, R., Aqueous solutions of associative poly(acrylates): Bulk and interfacial, Colloids and Surfaces A 505 (2016) 138-149.

**350.** Zawala, J., "Immortal" liquid film formed by colliding bubble at oscillating solid substrates, Physics of Fluids 28 5 (2016) Article Number: 057103.

**351.** Winkler, Michael; Abel, Markus, Optimized setup for two-dimensional convection experiments in thin liquid films, Rev. Sci. Instruments 87 6 (2016) Article Number: 065102.

**352.** Uhlig, M., Miller, R., von Klitzing, R., Surface adsorption of sulfonated poly(phenylene sulfone) / C(14) TAB mixtures and its correlation with foam film stability, Phys. Chem. Chem. Phys. 18

27 (2016) 18414-18423.

- 353.** Zawala, J.; Kosior, D.; Dabros, T.; K. Malysa, Influence of bubble surface fluidity on collision kinetics and attachment to hydrophobic solids, *Colloids and Surfaces A* 505 (2016) 47-55.
- 354.** Zhang, Yiran; Yilixiati, Subinuer; Pearsall, Collin; et al., Nanoscopic Terraces, Mesas, and Ridges in Freely Standing Thin Films Sculpted by Supramolecular Oscillatory Surface Forces, *ACS NANO* 10 4 (2016) 4678-4683.
- 355.** Jones, S. A.; Laskaris, G.; Vincent-Bonnieu, S.; et al, Effect of surfactant concentration on foam: From coreflood experiments to implicit-texture foam-model parameters, *J. Industrial and Engineering Chemistry* 37 (2016) 268-276.
- 356.** Ivanova, D.S.; Angarska, J.K.; Manev, E.D., Kinetic and equilibrium properties of foam films stabilized by mixtures of n-dodecyl-beta-D-maltoside with nonionic or ionic surfactants, *Bulg. Chem. Commun.* 48 SIA (2016) 7-12.
- 357.** Gochev, G.; Platikanov, D.; Miller, R., Chronicles of foam films, *Adv. Colloid and Interface Sci.* 233 (2016) 115-125.
- 358.** Weikl, Robert, Hofmann, Matthias J., Motschmann, Hubert, The influence of highly charged Ce<sup>4+</sup> cations on aqueous solutions of SDS, *Colloids and Surfaces A* 505 (2016) 93-97.
- 359.** Pagureva, N.; Tcholakova, S.; Rusanova, K.; et al., Factors affecting the coalescence stability of microbubbles, *Colloids and Surfaces A* 508 (2016) 21-29.
- 360.** Wang, Yong; Liu, Xiaochen; Zhou, Yawen; et al., Influence of Hydrocarbon Chain Branching on Foam Properties of Olefin Sulfonate with Foam Scan, *J. Surfactants & Detergents* 19 6 (2016) 1215-1221.
- 361.** Hofmann, Matthias J.; Motschmann, Hubert, Measurement of the lifetime of individual foam lamellae, *Rev. Sci. Instruments* 87 9 (2016) Art. Number: 094101.
- 151. Milchev, A.** Electrochemical nucleation on active sites - What do we measure in reality? Part I. *Journal of Electroanalytical Chemistry*, 457, 1-2, 1998, ISSN:1572-6657, DOI:10.1016/S0022-0728(98)00106-5, 47-52. SJR:0.752

*Цумура се в:*

- 362.** Isaev, V.A., Grishenkova, O.V., Zaykov, Y.P., Analysis of the geometrical-probabilistic models of electrocrystallization, *Russian Metallurgy (Metally)* 2016 (8) (2016) 776-784.
- 363.** Ustarroz, J., Hubin, A., Terryn, H., New insights in nanoelectrodeposition: An electrochemical aggregative growth mechanism, 2016 *Handbook of Nanoelectrochemistry: Electrochemical Synthesis Methods, Properties, and Characterization Techniques*, 1349-1378.
- 152. Milchev, A., Kokkinidis, G., Kelaidopoulou, A.** Nucleation and growth of metal catalysts. Part I. Electrodeposition of platinum on tungsten. *Journal of Electroanalytical Chemistry*, 444, 2, 1998, ISSN:1572-6657, DOI:10.1016/S0022-0728(97)00546-9, 195-201. SJR:0.752

*Цумура се в:*

- 364.** Weiser, M., Schulze, C., Schneider, M., Michaelis, A., P, Platinum electrodeposition from a dinitrosulfatoplatinate(II) electrolyte, *Applied Surface Science* 390 (2016) 333-338.
- 365.** Fardi-Ilkhchy, A., Nasirpouri, F., Bran, C., Vázquez, M., Compositionally graded Fe(1-x)-Pt(x) nanowires produced by alternating current electrodeposition into alumina templates, *Journal of Solid State Chemistry*, 244 (2016) 35-44,
- 366.** Isaev, V.A., Grishenkova, O.V., Zaykov, Y.P., Analysis of the geometrical-probabilistic models

of electrocrystallization, Russian Metallurgy (Metally), 2016 (8) ( 2016) 776-784.

- 367.** Dukštienė, N., Sinkevičiūtė, D., Tatariškinaitė, L., Electrochemical behavior of SeO<sub>2</sub> in sodium citrate solution on a polycrystalline SnO<sub>2</sub> electrode, Journal of Solid State Electrochemistry, 20 (3) ( 2016) 813-825.

---

## 1999

---

- 153.** Tegenkamp, C., **Michailov, M.**, Wollschl?ger, J., Pfn?r, H.. Growth and surface alloy formation of Mg on Ag(100). Applied Surface Science, 151, 1, "Elsevier Science Publishers B.V., Amsterdam, Netherlands?", 1999, ISSN:1694332, DOI:10.1016/S0169-4332(99)00256-1, 40-48

Цумура се в:

- 368.** Amani Migaou, Brice Sarpi, Mathilde Guiltat, Kevin Payen, Rachid Daineche, Georges Landa, Sébastien Vizzini, and Anne Hémercyck, "A perfect wetting of Mg monolayer on Ag(111) under atomic scale investigation: First principles calculations, scanning tunneling microscopy, and Auger spectroscopy" The Journal of Chemical Physics 144, 194708 (2016);

- 154.** Rashkov, S., **Dobrev, T.**, Noncheva, Z., Stefanov, Y., Rashkova, B., **Petrova, M.** Lead-cobalt anodes for electrowinning of zinc from sulphate electrolytes. Hydrometallurgy, 52, 3, "Elsevier Science Publishers B.V., Amsterdam, Netherlands?", 1999, ISSN:0304386X, DOI:10.1016/S0304-386X(99)00005-5, 223-230

Цумура се в:

- 369.** Tsakova V., "The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew"", Chemistry, 25 (1), pp. 35-67 (2016)

- 155.** Tsekova, D., Dimitrova, S., **Nanev, C.N.** Heterogeneous nucleation (and adhesion) of lysozyme crystals. Journal of Crystal Growth, 196, 4-Feb, 1999, ISSN:220248, 226-233

Цумура се в:

- 370.** Buell, Alexander K. "The Nucleation of Protein Aggregates-From Crystals to Amyloid Fibrils." International Review of Cell and Molecular Biology (2016).

- 156.** J.W. Schultze, **V. Tsakova.** Electrochemical microsystem technologies: from fundamental research to technical systems. Electrochimica Acta, 44, Elsevier, 1999, 3605-3627. ISI IF:4.507

Цумура се в:

- 371.** F. Andreatta, L. Fedrizzi, The use of electrochemical micro-cell for the investigation of corrosion phenomena, Electrochim Acta, 203 (2016) 337–349.

- 372.** D. Britz, J. Strutwolf, Digital Simulation in Electrochemistry, Chapter Two (and Three) Dimensions pp 251 – 337, Springer, 2016.

- 157.** **A. Milchev,** V. Yamakov, K. Binder. Escape transition of a polymer chain: Phenomenological theory and Monte Carlo simulations. 1999

Цумура се в:

- 373.** Borys, P., Grzywna, Z.J. On the fractality of the Freundlich adsorption isotherm in equilibrium and non-equilibrium cases (2016) Physical Chemistry Chemical Physics, 18 (30), pp. 20784-20789. 10.1039/c6cp03356c



- 158. Armyanov, S., Georgieva, J., Tachev, D., Valova, E.,** Nyagolova, N., Mehta, S., Leibman, D., Ruffini, A.. Electroless Deposition of Ni-Cu-P Alloys in Acidic Solutions. *Electrochemical and Solid-State Letters*, 2, 7, The Electrochemical Society, Inc., 1999, ISSN:1099-0062, DOI:10.1149/1.1390824, 323-325. ISI IF:1.162

Цитира се в:

- 374.** В. Цакова, Институтът по физикохимия „Академик Ростислав Каишев“ – носител и продължител на традицията на българската физикохимична школа, *Khimiya/Chemistry: Bulgarian Journal of Science Education*, 25, 35-67 (2016)
- 375.** W. A. Badawy, S. A. Fadel-Allah, A. M. Fathi, Influence of Ni–Cu–P Deposits on the Surface Characteristics of Anodized Al, Al2014 and Al7075, *Zeitschrift für Physikalische Chemie*, 230, (1) 35-50 (2016).

- 159. Avramov, I., Avramova, N.** Kinetics of relaxation and crystallization of poly(ethylene terephthalate). *Journal of Non-Crystalline Solids*, 260, 2-Jan, "Elsevier Science Publishers B.V., Amsterdam, Netherlands?", 1999, ISSN:223093, DOI:10.1016/S0022-3093(99)00572-4, 15-20

Цитира се в:

- 376.** Souril, D., Zaliani, H., Mirdawoodi, E., Zendehzaban, M., Measurement: *Journal of the International Measurement Confederation* (2016), 82 pp. 19 - 25 .

- 160. Sedev, R., Exerowa, D.** DLVO and non-DLVO surface forces in foam films from amphiphilic block copolymers. *Advances in Colloid and Interface Science*, 83, 1, "Elsevier Science Publishers B.V., Amsterdam, Netherlands?", 1999, ISSN:18686, DOI:10.1016/S0001-8686(99)00007-X, 111-136

Цитира се в:

- 377.** Micheau, Cyril; Rosenberg, Elisabeth; Barre, Loic; et al. Microfluidic comparative study of foam flow between a classical and a pH sensitive surfactant, *Colloids & Surfaces A.*, 501 (2016) 122-131
- 378.** Del Castillo, Lorena A.; Ohnishi, Satomi; Carnie, Steven L.; et al., Variation of Local Surface Properties of an Air Bubble in Water Caused by Its Interaction with Another Surface, *Langmuir*, 32 30 (2016) 7671-7682
- 379.** Диляна Ст. Иванова, Дисертация, СУ “Св. Климент Охридски”, Факултет по химия и фармация, Катедра “Физикохимия”, “Изтъняване и критична дебелина на пенни филми от водни р-ри на смеси от n-додецил-β-D-малтозид с нейонни и йонни ПАВ”, (2016)
- 380.** Sham, Alison Y. W.; Notley, Shannon M., Foam stabilisation using surfactant exfoliated graphene, *J. Colloid Interface Sci.*, 469 (2016) 196-204
- 381.** Zeng, Yongchao; Farajzadeh, Rouhi; Eftekhari, Ali Akbar; et al., Role of Gas Type on Foam Transport in Porous Media, *Langmuir*, 32 Issue: 25 (2016) 6239-6245

---

**2000**

---

- 161. Stoychev, D., Stefanov, P., Stoycheva, M., Nikolova, D., Marinova, Ts.** Characterization of the surface structure and composition of stainless steel 316 L after electrochemical roughening. *Transactions of the Institute of Metal Finishing*, 78, 2000, 67-70. ISI IF:0.852

Цитира се в:

- 382.** *Water Research* Volume 88, 1 January 2016, Pages 816–825 Characterization of corrosion scale

formed on stainless steel delivery pipe for reclaimed water treatment Yong Cuia, Shuming Liua,,  
, Kate Smitha, Kanghua Yua, Hongying Hua, Wei Jiangb, Yuhong Li  
doi:10.1016/j.watres.2015.11.021

- 162. A. Milchev, J.P. Wittmer, D.P. Landau.** Formation and equilibrium properties of living polymer brushes .. 2000

Цумура се в:

- 383.** Kumar, R., Lahann, J. Predictive Model for the Design of Zwitterionic Polymer Brushes: A Statistical Design of Experiments Approach (2016) ACS Applied Materials and Interfaces, 8 (26), pp. 16595-16603. 10.1021/acsami.6b04370
- 384.** Singh, A., Kuksenok, O., Johnson, J.A., Balazs, A.C. Tailoring the structure of polymer networks with iniferter-mediated photo-growth (2016) Polymer Chemistry, 7 (17), pp. 2955-2964. 10.1039/c6py00325g
- 385.** Mastan, E., Xi, L., Zhu, S. Factors Affecting Grafting Density in Surface-Initiated ATRP: A Simulation Study (2016) Macromolecular Theory and Simulations, 25 (3), pp. 220-228. 10.1002/mats.201500081
- 386.** Mohammadi Sejoudsari, R., Martinez, A.P., Kutes, Y., Wang, Z., Dobrynin, A.V., Adamson, D.H. "Grafting-Through": Growing Polymer Brushes by Supplying Monomers through the Surface (2016) Macromolecules, 49 (7), pp. 2477-2483. 10.1021/acs.macromol.6b00183
- 387.** Martinez, A.P., Carrillo, J.-M.Y., Dobrynin, A.V., Adamson, D.H. Distribution of Chains in Polymer Brushes Produced by a "grafting From" Mechanism (2016) Macromolecules, 49 (2), pp. 547-553. 10.1021/acs.macromol.5b02261

- 163. Milchev, A.** Dynamical Monte Carlo study of equilibrium polymers: Effects of high density and ring formation. 2000

Цумура се в:

- 388.** Deng, B., Shi, Y. A reactive coarse-grained model for polydisperse polymers (2016) Polymer (United Kingdom), 98, pp. 88-99. 10.1016/j.polymer.2016.06.018

- 164. Kashchiev, D.** Nucleation: Basic Theory with Applications. Butterworth-Heinemann, Oxford, 2000

Цумура се в:

- 389.** Wyslouzil, Barbara E., and Judith Wölk. "Overview: Homogeneous nucleation from the vapor phase—The experimental science." The Journal of Chemical Physics 145.21 (2016): 211702.
- 390.** Statt, Antonia, et al. "Monte Carlo Simulation of Crystal-Liquid Phase Coexistence." High Performance Computing in Science and Engineering 15. Springer International Publishing, 2016. 75-87.
- 391.** Tilbury, Carl J., and Michael F. Doherty. "Modeling Layered Crystal Growth at Increasing Supersaturation by Connecting Growth Regimes." AIChE Journal (2016), DOI: 10.1002/aic.15617
- 392.** Joswiak, Mark N., Michael F. Doherty, and Baron Peters. "Critical length of a one-dimensional nucleus." The Journal of Chemical Physics 145.21 (2016): 211916.
- 393.** Karthika, S., T. K. Radhakrishnan, and Ponnusamy Kalaiichelvi. "A Review of Classical and Nonclassical Nucleation Theories." Crystal Growth & Design 16.11 (2016): 6663-6681.
- 394.** Yang, Huaiyu, et al. "Effect of Oscillatory Flow on Nucleation Kinetics of Butyl Paraben." Crystal Growth & Design 16.2 (2016): 875-886.

- 395.** He, Xiaoxia, et al. "Heterogeneous nucleation from a supercooled ionic liquid on a carbon surface." *The Journal of Chemical Physics* 145.21 (2016): 211919.
- 396.** Lapidot, Tomer, Kyra L. Sedransk Campbell, and Jerry YY Heng. "Model for Interpreting Surface Crystallization Using Quartz Crystal Microbalance: Theory and Experiments." *Analytical chemistry* 88.9 (2016): 4886-4893.
- 397.** Bi, Yuanfei, Anna Porras, and Tianshu Li. "Free energy landscape and molecular pathways of gas hydrate nucleation." *The Journal of Chemical Physics* 145.21 (2016): 211909.
- 398.** Turner, T. D., et al. "The influence of solution environment on the nucleation kinetics and crystallisability of para-aminobenzoic acid." *Physical Chemistry Chemical Physics* 18.39 (2016): 27507-27520.
- 399.** Legg, Benjamin A., and James J. De Yoreo. "The energetics of prenucleation clusters in lattice solutions." *The Journal of Chemical Physics* 145.21 (2016): 211921.
- 400.** Sosso, Gabriele C., et al. "Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations." *Chemical reviews*, 2016, 116 (12), pp 7078–7116
- 401.** Jungblut, Swetlana, and Christoph Dellago. "Pathways to self-organization: Crystallization via nucleation and growth." *The European Physical Journal E* 39.8 (2016): 77.
- 402.** Cha, Hyeongyun, et al. "Coalescence-induced nanodroplet jumping." *Physical Review Fluids* 1.6 (2016): 064102.
- 403.** Byington, Michael C., et al. "Protein Conformational Flexibility Enables the Formation of Dense Liquid Clusters: Tests Using Solution Shear." *The journal of physical chemistry letters* 7 (13) (2016) 2339–2345.
- 404.** Xu, Shijie, et al. "Nucleation behavior of eszopiclone-butyl acetate solutions from metastable zone widths." *Chemical Engineering Science* 155 (2016): 248-257.
- 405.** Spix, Laura, et al. "Persistent reverse enantiomeric excess in solution during Viedma ripening." *Crystal Growth & Design* 16.8 (2016): 4752-4758.
- 406.** Sangwal, Keshra, and Ewa Mielniczek-Brzóška. "Antisolvent crystallization of aqueous ammonium dihydrogen phosphate solutions by addition of methanol." *Journal of Crystal Growth* 451 (2016): 139-149.
- 407.** Vekilov, Peter G. "Nucleation of protein crystals." *Progress in Crystal Growth and Characterization of Materials* (2016) 62 (2) 136–154.
- 408.** Fang, Yuan, et al. "Dynamic control over supramolecular handedness by selecting chiral induction pathways at the solution–solid interface." *Nature Chemistry* (2016) 8, 711–717.
- 409.** Lutsko, James F., and Grégoire Nicolis. "Mechanism for the stabilization of protein clusters above the solubility curve." *Soft matter* 12.1 (2016): 93-98.
- 410.** Levin, Aviad, et al. "Elastic instability-mediated actuation by a supra-molecular polymer." *Nature Physics* (2016) 12, 926–930
- 411.** Manthilake, Geeth, et al. "Dehydration of chlorite explains anomalously high electrical conductivity in the mantle wedges." *Science Advances* 2.5 (2016): e1501631.
- 412.** De Yoreo, James J. "In-situ liquid phase TEM observations of nucleation and growth processes." *Progress in Crystal Growth and Characterization of Materials* 62.2 (2016): 69-88.
- 413.** Schaefer, C., Jasper J. Michels, and P. P. A. M. van der Schoot. "Structuring of thin-film polymer mixtures upon solvent evaporation." *Macromolecules* 49.18 (2016): 6858-6870.
- 414.** Garcia, M., L. E. Herranz, and M. P. Kissane. "Theoretical assessment of particle generation

- from sodium pool fires." *Nuclear Engineering and Design* 310, 15 (2016) 470–483
415. Sharma, H., J. Sietsma, and S. E. Offerman. "Preferential Nucleation during Polymorphic Transformations." *Scientific Reports* 6 (2016) 30860.
  416. Bar-Kohany, Tali, and Moti Levy. "STATE OF THE ART REVIEW OF FLASH-BOILING ATOMIZATION." *Atomization and Sprays* 26.12 (2016), DOI: 10.1615/AtomizSpr.2016015626
  417. Zheng, Zhangfeng, Shidong Song, and Yan Wang. "Sol-gel-processed amorphous lithium ion electrolyte thin films: Structural evolution, theoretical considerations, and ion transport processes." *Solid State Ionics* 287 (2016): 60-70.
  418. Tahri, Yousra, et al. "Modeling the competition between polymorphic phases: highlights on the effect of Ostwald Ripening." *Crystal Growth & Design* 16.10 (2016): 5689-5697.
  419. Sangwal, Keshra. "On the light intensity transmitted through water and aqueous supersaturated ammonium dihydrogen phosphate solutions containing different antisolvents." *Journal of Crystal Growth* 460 (2016) 67–77
  420. Liszka, Barbara M., et al. "Calcium carbonate nucleation investigated in a Double Pulse experiment." *Crystal Growth & Design* 16.9 (2016): 4839-4845.
  421. Jiang, Xiaobin, et al. "Membrane assisted cooling crystallization: Process model, nucleation, metastable zone, and crystal size distribution." *AIChE Journal* 62.3 (2016): 829-841.
  422. Suh, Donguk, and Kenji Yasuoka. "Condensation on nanorods by molecular dynamics." *The Journal of Chemical Physics* 144.24 (2016): 244702.
  423. Elsharkawy, Sherif, et al. "Preferential nucleation and crystal growth on microfabricated topography." *Materials Today* 19.8 (2016): 478-480.
  424. Sangwal, Keshra, and Ewa Mielniczek-Brzóška. "Antisolvent crystallization of aqueous ammonium dihydrogen phosphate solutions by addition of acetone at different rates." *Crystal Research and Technology* 51.8 (2016): 475-490.
  425. Lazzati, Davide, and Alexander Heger. "The interplay between chemistry and nucleation in the formation of carbonaceous dust in supernova ejecta." *The Astrophysical Journal* 817.2 (2016): 134.
  426. Roob, Edward, et al. "Cooperative Clustering Digitizes Biochemical Signaling and Enhances its Fidelity." *Biophysical journal* 110.7 (2016): 1661-1669.
  427. Rao, Ashit, et al. "pH-dependent schemes of calcium carbonate formation in the presence of alginates." *Crystal Growth & Design* 16.3 (2016): 1349-1359.
  428. Johansson, Jonas. "Stochastic analysis of nucleation rates." *Physical Review E* 93.2 (2016): 022801.
  429. Adrjanowicz, Karolina, et al. "Exploring the Crystallization Tendency of Glass-Forming Liquid Indomethacin in the T–p Plane by Finding Different Iso-Invariant Points." *Crystal Growth & Design* 16 (12) (2016) 7000–7010
  430. Shirvan, M. Mokhtari Motameni, et al. "The effect of pressurized and fast stabilization on one step batch foaming process for the investigation of cell structure formation." *The Journal of Supercritical Fluids* 112 (2016): 143-152.
  431. Haqshenas, S. R., I. J. Ford, and N. Saffari. "Modelling the effect of acoustic waves on nucleation." *The Journal of Chemical Physics* 145.2 (2016): 024315.
  432. Ziabicki, Andrzej, Beata Misztal-Faraj, and Leszek Jarecki. "Kinetic model of non-isothermal crystal nucleation with transient and athermal effects." *Journal of Materials Science* 51.19 (2016): 8935-8952.

433. Su, Junwei, Majid Charmchi, and Hongwei Sun. "A Study of Drop-Microstructured Surface Interactions during Dropwise Condensation with Quartz Crystal Microbalance." *Scientific reports* 6 (2016) 35132.
434. Bazin, Dominique, Emmanuel Letavernier, and Jean-Philippe Haymann. "Biomineralization versus microcrystalline pathologies: Beauty and the beast." *Comptes Rendus Chimie* 19 (11-12) (2016) 1395–1403
435. Wu, L. K., et al. "Calculation of solid–liquid interfacial free energy of silicon based on classical nucleation theory." *Journal of Materials Research* 31.23 (2016): 3649-3656.
436. Mesa, F., C. A. Arredondo, and W. Vallejo. "Structural, morphological, and optoelectrical characterization of Bi<sub>2</sub>S<sub>3</sub> thin films grown by co-evaporation." *Modern Physics Letters B* 30.06 (2016): 1650066.
437. Li, Xiang-Ming, and Qing-Hui Liu. "Heterogeneous nucleation on surfaces of the ellipsoid of rotation." *Journal of Crystal Growth* 447 (2016): 42-47.
438. López, David Reguera. "Nucleation phenomena: The non-equilibrium kinetics of phase change." *Contributions to science* (2016): 173-180.
439. Sheikhi, Amir, et al. "Macromolecule-based platforms for developing tailor-made formulations for scale inhibition." *Environmental Science: Water Research & Technology* 2.1 (2016): 71-84.
440. Takiya, Toshio, et al. "Nucleation Kinetics, Size Effects, and Surface Treatment." *Handbook of Nanoparticles* (2016): 245-264.
441. Zierenberg, Johannes, Philipp Schierz, and Wolfhard Janke. "Canonical free-energy barrier of droplet formation." *arXiv preprint arXiv:1607.08355* (2016).
442. Yang, Zenan, et al. "Predicting the transition between upper and lower bainite via a Gibbs energy balance approach." *Journal of Materials Science & Technology* (2016), doi.org/10.1016/j.jmst.2016.11.028
443. Vitanov, Nikolay K. "Selected Models for Dynamics of Research Organizations and Research Production." *Science Dynamics and Research Production*. Springer International Publishing, 2016. 195-268.
444. Němec, Tomáš. "Homogeneous bubble nucleation in binary systems of liquid solvent and dissolved gas." *Chemical Physics* 467 (2016): 26-37.
445. Savel'ev, A. M., and A. M. Starik. "An improved model of homogeneous nucleation for high supersaturation conditions: aluminum vapor." *Physical Chemistry Chemical Physics* 19.1 (2017): 523-538.
446. Maceiczky, Richard M., and Leonard Bezing. "Kinetics of nanocrystal synthesis in a microfluidic reactor: theory and experiment." *Reaction Chemistry & Engineering* 1.3 (2016): 261-271.
447. Rohani, M. S., M. R. Sahar, and M. H. Halim. "Kinetic Study on the Crystallization of Sodium Lead Borate Glass by Differential Thermal Analyzer." *International Journal of Physical Sciences* 1.1 (2016): 49-54.
448. Piaggi, Pablo M., Omar Valsson, and Michele Parrinello. "A variational approach to nucleation simulation." *Faraday Discussions* 195 (2016) 557-568
449. Borisenko, Alexander. "Classical nucleation theory for solute precipitation amended with diffusion and reaction processes near the interface." *Physical Review E* 93.5 (2016): 052807.
450. Tao, Yin. *Cluster jets for quasi-phase matching in high-order harmonic generation*. Diss. Universiteit Twente, 2016.

451. Selinger, Jonathan V. "Dynamics of Phase Transitions." *Introduction to the Theory of Soft Matter*. Springer International Publishing, 2016. 83-89.
452. Poornachary, Sendhil K., et al. "Crystallizing Micronized Particles of a Poorly Water-Soluble Active Pharmaceutical Ingredient: Nucleation Enhancement by Polymeric Additives." *Crystal Growth & Design* 16.2 (2016): 749-758.
453. Dubrovskii, V. G. "Kinetic narrowing of size distribution." *Physical Review B* 93.17 (2016): 174203.
454. Espinosa, J. R., et al. "On the time required to freeze water." *The Journal of Chemical Physics* 145.21 (2016): 211922.
455. de Baños, María Lourdes Martínez, et al. "How do gas hydrates grow on a substrate?" *Cryst. Growth Des.*, 16 (8) 2016, 4360–4373.
456. Bordeianu, Catalina, and Delphine Felder-Flesch. "Chapter 2 Dendrimer-Nanoparticle Conjugates in Nanomedicine." *Dendrimers in Nanomedicine*. Pan Stanford Publishing Pte. Ltd., 2016. 23-76.
457. Chavan, Shreyas, et al. "Heat transfer through a condensate droplet on hydrophobic and nanostructured superhydrophobic surfaces." *Langmuir* 32.31 (2016): 7774-7787.
458. van Enkevort, Willem JP. "Growth of crystal faces enhanced by 3D nuclei deposition: A Monte Carlo simulation." *Crystal Growth & Design* 16.8 (2016): 4402-4410.
459. Melikhov, I. V., et al. "A kinetic model for the formation of hierarchical nanostructures during the evaporation of phase-forming compound solutions." *Russian Journal of Physical Chemistry A* 90.3 (2016): 622-627.
460. Šarić, Anđela, et al. "Kinetics of spontaneous filament nucleation via oligomers: insights from theory and simulation." *The Journal of Chemical Physics* 145(21) (2016), doi.org/10.1063/1.4965040
461. Reiss, Howard, and José A. Manzanares. "Statistical Thermodynamics of an "Open" Hard Sphere System on the Equilibrium Fluid Isotherm: Study of Properties of the Freezing Transition Without Direct Involvement of the Equilibrium Solid Phase." *Journal of Statistical Physics* 164.5 (2016): 1029-1042.
462. Hwang, Yong Seok. "A multiphysics phase field model on melting and kinetic superheating of aluminum nanolayer and nanoparticle." (2016).
463. Kosyakov, V. I., et al. "Metastable Equilibria with the Participation of Superheated Crystal Phases in Binary Oxide Systems." *Russian Journal of Physical Chemistry A* 90.4 (2016): 718-722.
464. Virnau, Peter, Fabian Schmitz, and Kurt Binder. "The ensemble switch method and related approaches to obtain interfacial free energies between coexisting phases from simulations: a brief review." *Molecular Simulation* 42.6-7 (2016): 549-562.
465. Kurasov, V. B. "Theoretical justification of the von Weimarn law under homogeneous condensation in the free-molecular regime." *Technical Physics Letters* 42.8 (2016): 772-774.
466. Nordlund, Markus, and Arkadiusz K. Kuczaj. "Modeling Aerosol Formation in an Electrically Heated Tobacco Product." *World Academy of Science, Engineering and Technology, International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering* 10.4 (2016): 336-348.
467. Binder, Kurt, and Peter Virnau. "Overview: Understanding nucleation phenomena from simulations of lattice gas models." *The Journal of Chemical Physics* 145.21 (2016): 211701.

468. Poonoosamy, J., et al. "Barite precipitation following celestite dissolution in a porous medium: A SEM/BSE and  $\mu$ -XRD/XRF study." *Geochimica et Cosmochimica Acta* 182 (2016): 131-144.
469. Miller, Ruhina M., et al. "Isothermal Crystallization Kinetics of Sodium Dodecyl Sulfate–Water Micellar Solutions." *Crystal Growth & Design* 16.6 (2016): 3379-3388.
470. Frigyes, Podmaniczky, et al. "Investigating Nucleation Using the Phase-Field Method." *Journal of the Indian Institute of Science* 96.3 (2016): 161-178.
471. Chernov, A. A., A. A. Pil'nik, and D. R. Islamov. "Initial stage of nucleation-mediated crystallization of a supercooled melt." *Journal of Crystal Growth* 450 (2016): 45-49.
472. Krishnan, Kannan M., R. Matthew Ferguson, and Amit Praful Khandhar. "Tuned multifunctional magnetic nanoparticles for biomedicine." U.S. Patent No. 9, 259, 492. 16 Feb. 2016.
473. Nicholson, David A., and Gregory C. Rutledge. "Analysis of nucleation using mean first-passage time data from molecular dynamics simulation." *The Journal of chemical physics* 144.13 (2016): 134105.
474. MATA, A., S. Elsharkawy, and M. Al-Jawad. "Preferential nucleation and crystal growth on micro fabricated topography." (2016), URI <http://qmro.qmul.ac.uk/xmlui/handle/123456789/15484>
475. Chang, S-Y., et al. "Detection and characterisation of sub-critical nuclei during reactive Pd metal nucleation by X-ray absorption spectroscopy." *CrystEngComm* 18.5 (2016): 674-682.
476. Palafox-Hernandez, J. Pablo, and Brian B. Laird. "Orientation dependence of heterogeneous nucleation at the Cu–Pb solid-liquid interface." *The Journal of Chemical Physics* 145.21 (2016): 211914.
477. Hubka, Vojtěch. "Studium fázových přechodů vybraných materiálů pro kultivaci a kryoprezervaci buněk." (2016), URI <http://hdl.handle.net/10467/64864>
478. Song, Huajing, and Jeffrey J. Hoyt. "Barrier-Free Nucleation at Grain-Boundary Triple Junctions During Solid-State Phase Transformations." *Physical Review Letters* 117.23 (2016): 238001.
479. Victor, C. I. O. B. U. "Modelarea adaptiv-parametrică a unor sisteme fizice complexe." (2016).
480. Tahri, Yousra. Vers une meilleure compréhension de la cristallisation en solution de polymorphes: étude expérimentale et modélisation par bilan de population et par équations cinétiques. Diss. Université de Lyon, 2016.
481. Perepezko, J. H., and G. Wilde. "Melt undercooling and nucleation kinetics." *Current Opinion in Solid State and Materials Science* 20.1 (2016): 3-12.
482. He, Xiaoxia, et al. "Homogeneous Nucleation of [dmim+][Cl-] from its Supercooled Liquid Phase: A Molecular Simulation Study." *Foundations of Molecular Modeling and Simulation*. Springer Singapore, 2016. 107-123.
483. Kügler, Ricco T., Katharina Beißert, and Matthias Kind. "On heterogeneous nucleation during the precipitation of barium sulfate." *Chemical Engineering Research and Design* 114 (2016): 30-38.
484. Cogné, C., et al. "Theoretical model of ice nucleation induced by inertial acoustic cavitation. Part 2: Number of ice nuclei generated by a single bubble." *Ultrasonics sonochemistry* 28 (2016): 185-191.
485. McLeod, J. S., et al. "The effect of agitation on the nucleation of  $\alpha$ -lactose monohydrate." *International Dairy Journal* 61 (2016) 114–119
486. Hansen, Thomas B., et al. "Polymorphic behavior of isonicotinamide in cooling crystallization from various solvents." *Journal of Crystal Growth* 450 (2016): 81-90.

487. Joswiak, Mark N., et al. "Energetic and entropic components of the Tolman length for mW and TIP4P/2005 water nanodroplets." *The Journal of Chemical Physics* 145 (20)(2016).
165. Ivanov, I., Stefanov, Y., Noncheva, Z., Petrova, M., Dobrev, Ts., Mirkova, L., Vermeersch, R., Demaerel, J.-P.. Insoluble anodes used in hydrometallurgy Part II. Anodic behaviour of lead and lead-alloy anodes. *Hydrometallurgy*, 57, 2, 2000, ISSN:0304386X, 125-139

Цумура се в:

488. Ma R., Cheng S., Zhang X., Li S., Liu Z., Li X., "Oxygen evolution and corrosion behavior of low-MnO<sub>2</sub>-content Pb-MnO<sub>2</sub> composite anodes for metal electrowinning", *Hydrometallurgy*, 159, pp. 6-11 (2016)
489. Zhang Y.C., Qin S.J., "Electrochemical properties and microstructure of Al/Pb-Sn anodes during copper electrowinning", *IOP Conference Series: Materials Science and Engineering*, 137 (1), art. no. 012043 (2016)
490. Karbasi M., Keshavarz Alamdari E., "Improving the Mechanical Properties and the Microstructure of Pb Electrowinning Anodes Using Accumulative Roll Bonding", *Transactions of the Indian Institute of Metals*, 69 (5), pp. 1097-1105 (2016)
166. Kokkinidis, G., Papoutsis, A., Stoychev, D., Milchev, A.. Electroless deposition of Pt on Ti - catalytic activity for the hydrogen evolution reaction. *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*, 486, 1, Elsevier, 2000, ISSN:1572-6657, DOI:10.1016/S0022-0728(00)00128-5, 48-55. SJR:0.776, ISI IF:2.729

Цумура се в:

491. *Electrochimica Acta* Volume 196, 1 April 2016, Pages 756–768 The reduction of benzylbromide at Ag-Ni deposits prepared by galvanic replacement B. Vanrenterghema,, , A. Papaderakisb, S. Sotiropoulosb, D. Tsiplakidesc, S. Balomenouc, S. Balsd, T. Breugelmans doi:10.1016/j.electacta.2016.02.135
492. Rutile TiO<sub>2</sub> Supported Pt as Stable Electrocatalyst for Improved Oxygen Reduction Reaction and Durability in Polymer Electrolyte Fuel Cells Article · September 2016, *Electroanalysis*, DOI: 10.1007/s12678-016-0329-7 1st P. Dhanasekaran 2nd S. Vinod Selvaganesh 3rd L. Sarathi 4th S D Bhat 33.67 · CSIR-Central Electrochemical Research I
493. Athanasios Papaderakis, Nikolaos Pliatsikas, Charikleia Prochaska, Georgios Vourlias, Panos Patsalas, Dimitrios Tsiplakides, Stella Balomenou, and Sotiris Sotiropoulos, Oxygen Evolution at IrO<sub>2</sub> Shell – Ir-Ni Core Electrodes Prepared by Galvanic Replacement, *J. Phys. Chem. C*, Just Accepted Manuscript • DOI: 10.1021/acs.jpcc.6b06025
494. *Applied Surface Science* Volume 390, 30 December 2016, Pages 333–338 Platinum electrodeposition from a dinitrosulfatoplatinate(II) electrolyte Mathias Weisera, Claudia Schulzea, Michael Schneidera, Alexander Michaelis
495. Ioanna Mintsouli, Jenia Georgieva, Athanasios Papaderakis, Stephan Armyanov, Eugenia Valova, Volodymyr Khomenko, Stella Balomenou, Dimitrios Tsiplakides, Sotiris Sotiropoulos, Methanol oxidation at platinized copper particles prepared by galvanic replacement, *J. Electrochem. Sci. Eng.* 6(1) (2016) 17-28; ; doi: 10.5599/jese.239
496. Zakiya Al Amri, Michael P. Mercer,, Natasa Vasiljevic, Surface Limited Redox Replacement Deposition of Platinum Ultrathin Films on Gold: Thickness and Structure Dependent Activity towards the Carbon Monoxide and Formic Acid Oxidation reactions, *Electrochimica Acta*, Volume 210, 20 August 2016, Pages 520–529, doi:10.1016/j.electacta.2016.05.161
497. Esteban A. Franceschinia,, , Gabriela I. Lacconib, Horacio R. Cortia, c, Kinetics of hydrogen evolution reaction on nickel modified by spontaneous Ru deposition: A rotating disk electrode



and impedance spectroscopy approach, International Journal of Hydrogen Energy, Volume 41, Issue 5, 9 February 2016, Pages 3326–3338, doi:10.1016/j.ijhydene.2015.12.143

- 498.** Catalysts 2016, 6(8), 125; doi:10.3390/catal6080125 Effects of the Electrodeposition Time in the Synthesis of Carbon-Supported Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Polymer Electrolyte Fuel Cells Griselda Caballero-Manrique 1, Immad Muhammed Nadeem 2, 3, Enric Brillas 1, Francesc Centellas 1, José Antonio Garrido 1, Rosa María Rodríguez 1 and Pere-Lluís Cabot 1, \*

- 167.** Tsakova, V., Winkels, S., Schultze, J.W.. "Anodic polymerization of 3,4-ethylenedioxythiophene from aqueous microemulsions". Electrochimica Acta, 46, 5, 2000, ISSN:134686, 759-768

Цумура се в:

- 499.** O. L. Gribkova, O. D. Iakobson, A. A. Nekrasov, V. A. Cabanova. V. A. Tverskoy, A. V. Vannikov, The influence of polyacid nature on poly(3, 4-ethylenedioxythiophene) electrosynthesis and its spectroelectrochemical properties, J. Solid State Electrochem. 20 (2016), 2991-3001.

- 168.** Avramova, K, Milchev, A, Yamakov, V. A Monte Carlo study of a tethered polymer chain in a uniform field. MACROMOLECULAR THEORY AND SIMULATIONS, 9, 8, WILEY-V C H VERLAG GMBH, 2000, ISSN:1022-1344, DOI:10.1002/1521-3919(20001101)9:83.0.CO;2-A, 516-522. SJR:0.772, ISI IF:1.348

Цумура се в:

- 500.** Li, J., Ma, Y., Hu, W. Dynamic Monte Carlo simulation of non-equilibrium Brownian diffusion of single-chain macromolecules (2016) Molecular Simulation, 42 (4), pp. 321-327. 10.1080/08927022.2015.1044454

- 501.** Li, J; Ma, Y ; Hu, WB, "Dynamic Monte Carlo simulation of non-equilibrium Brownian diffusion of single-chain macromolecules", MOLECULAR SIMULATION, Volume: 42, Issue: 4, Pages: 321-327, DOI: 10.1080/08927022.2015.1044454, 2016

- 169.** Ivanov, I., Stefanov, Y., Noncheva, Z., Petrova, M., Dobrev, Ts., Mirkova, L., Vermeersch, R., Demaerel, J.-P.. Insoluble anodes used in hydrometallurgy Part I. Corrosion resistance of lead and lead alloy anodes. Hydrometallurgy, 57, 2, 2000, ISSN:0304386X, 109-124

Цумура се в:

- 502.** Ma R., Cheng S., Zhang X., Li S., Liu Z., Li X., "Oxygen evolution and corrosion behavior of low-MnO<sub>2</sub>-content Pb-MnO<sub>2</sub> composite anodes for metal electrowinning", Hydrometallurgy, 159, pp. 6-11 (2016)

- 503.** Zhang W., Robichaud M., Ghali E., Houlachi G., "Electrochemical behavior of mesh and plate oxide coated anodes during zinc electrowinning", Transactions of Nonferrous Metals Society of China (English Edition), 26 (2), pp. 589-598 (2016)

- 504.** Karbasi M., Keshavarz Alamdari E., "Improving the Mechanical Properties and the Microstructure of Pb Electrowinning Anodes Using Accumulative Roll Bonding", Transactions of the Indian Institute of Metals, 69 (5), pp. 1097-1105 (2016)

- 505.** Soares J., Nunes M.A.G., Flores E.M.M., Paniz J.N.G., Dressler V.L., "Simultaneous determination of As, Bi, Sb, Se, Sn and Te in lead alloy using flow injection-hydride generation-inductively coupled plasma mass spectrometry", Analytical Methods, 8 (37), pp. 6805-6814 (2016)

- 506.** Zhang Y.C., Qin S.J., "Electrochemical properties and microstructure of Al/Pb-Sn anodes during

170. **Khristov, K.**, Taylor, S.D., Czarnecki, J., Masliyah, J.. Thin liquid film technique - Application to water-oil-water bitumen emulsion films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 174, 2-Jan, "Elsevier Science Publishers B.V., Amsterdam, Netherlands?, 2000, ISSN:9277757, DOI:10.1016/S0927-7757(00)00510-0, 183-196

Цитирана се в:

507. Marczak, W., Rogalski, M., Modarressi, A., Rogalska, E., A model of compression isotherms for analyzing particle layers, Colloids and Surfaces A 489 (2016) 128-135.

171. **Tsakova, V.**, Borissov, D.. Electrochemical deposition of copper in polyaniline films - Number density and spatial distribution of deposited metal clusters. Electrochemistry Communications, 2, 7, 2000, ISSN:13882481, DOI:10.1016/S1388-2481(00)00072-2, 511-515

Цитирана се в:

508. N. Aravindan, M.V. Sangaranarayanan, Influence of solvent composition on the anti-corrosion performance of copper-polypyrrole (Cu-PPy) coated 304 stainless steel, Progres Org. Coatings, 95, (2016) 38 – 45.

509. I.L. Lehr, S.B. Saidman, Synthesis of a hole-containing polypyrrole film modified by copper cementation, J. Appl. Polym. Sci., 133, (2016) Art.Nr..43650.

172. **Avramov, I.**, Keding, R., R?ssel, C.. Crystallization kinetics and rigidity percolation in glass-forming melts. Journal of Non-Crystalline Solids, 272, 3-Feb, 2000, ISSN:223093, 147-153

Цитирана се в:

510. PK Gupta, DR Cassar, ED Zanotto - Journal of Non-Crystalline Solids, 442, 2016, 34–39 2016

511. S Liu, Y Kong, H Tao, Y Sang - Journal of the European Ceramic Society, 2016, <http://dx.doi.org/10.1016/j.jeurceramsoc.2016.08.038>

173. Stefanov, P., **Stoychev, D.**, Stoycheva, M., Ikononov, J., Marinova, Ts.. XPS and SEM characterization of zirconia thin films prepared by electrochemical deposition. Surface and Interface Analysis, 30, 1, "John Wiley & Sons Ltd, Chichester, United Kingdom?, 2000, ISSN:1422421, DOI:10.1002/1096-9918(200008)30:13.0.CO;2-7, 628-631

Цитирана се в:

512. А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

513. Applied Surface Science Available online 20 October 2016 In Press, Accepted Manuscript Characterization of stainless steel surface processed using electrolytic oxidation and titanium complex ion solution Yubin Kang, Jaeyoung Choi, Jinju Park, Woo-Byoung Kim, Kun-Jae Lee <http://dx.doi.org/10.1016/j.apsusc.2016.10.063>

514. Journal of The Australian Ceramic Society Volume 52[2], 2016, 111 – 119 111 Structural and electrochemical impedance spectroscopic studies of anodic oxide film on zirconium fabricated in different aqueous electrolytes Naveen Verma\*1, Krishan Chander Singh1, Jitender Jindal1, Bernabe Mari2 and Miguel Mollar2

515. [PDF] [biam.ac.cn](http://biam.ac.cn) [PDF] 52CrMnBA 钢板弹簧断裂失效分析 颜婧, 冯继军, 张鑫明,

卢柳林, 刘胜, 孙晓芬 - 失效分析与预防 - faped.biam.ac.cn ... 解的定量分析 [J].  
航空学报, 2000, 21(6): 564 - 566.

[5] 陈长风, 路彦旭, 赵国栋, 等. 含1%Cr的N80 钢CO<sub>2</sub> 腐蚀产物膜特征 [J]. 中国腐蚀与防护学报, 2003, 23(6): 330 - 334.

[6] Stefanov P, Stoychev D, Stoycheva M, et al. XPS and SEM...

516. Aristatil Ganesan, Mani Narayanasamy, Karthikeyan S "Ultra low loading of anode catalyst for direct methanol fuel cells with ZrO<sub>2</sub>/ pyrolysed (PANI-melamine) as catalyst support" International in Article Journal of Hydrogen Energy · May 2016 Impact Factor: 3.31 · DOI: 10.1016/j.ijhydene.2016.03.135 ••

174. Stoychev, D., Ikonov, J., Robinson, K., Stefanov, P., Stoycheva, M., Marinova, Ts.. Surface modification of porous zirconia layers by electrochemical deposition of small amounts of Cu or Co and Co+Cu. Surface and Interface Analysis, 30, 1, "John Wiley & Sons Ltd, Chichester, United Kingdom?", 2000, ISSN:1422421, DOI:10.1002/1096-9918(200008)30:13.0.CO;2-J, 69-73

Цитира се в:

517. А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

518. Journal of Energy in Southern Africa On-line version ISSN 2413-3051 Print version ISSN 1021-447X J. energy South. Afr. vol.27 n.2 Cape Town Mar./May. 2016 Synthesis of zirconia-based solid acid nanoparticles for fuel cell application Rudzani A. SigwadiI, \*; Siphon E. MavundlaII; Nosipho MolotoIII; Touhami MokraniI

175. Stefanov, P., Stoychev, D., Stoycheva, M., Marinova, T.. XPS and SEM studies of chromium oxide films chemically formed on stainless steel 316 L. Materials Chemistry and Physics, 65, 2, "Elsevier Sequoia SA, Lausanne, Switzerland?", 2000, ISSN:2540584, DOI:10.1016/S0254-0584(00)00249-2, 212-215

Цитира се в:

519. Michelle Chebeir, Gongde Chen and Haizhou Liu, Emerging investigators series: frontier review: occurrence and speciation of chromium in drinking water distribution systems, Environ. Sci.: Water Res. Technol., 2016, 2, 906-914

520. R. Mendonça, R.-W. Bosch, Wouter Van Renterghem, C. de Araújo Figueiredo "Effect of temperature and dissolved hydrogen on oxide films formed on Ni and Alloy 182 in simulated PWR water" DOI: 10.1016/j.jnucmat.2016.05.022 Journal of Nuclear Materials, Volume 477, 15 August 2016, Pages 280–291

521. Cui Y, Liu S, Smith K, Yu K, Hu H, Jiang W, Li Y, Characterization of corrosion scale formed on stainless steel delivery pipe for reclaimed water treatment, Water Research 88, pp. 816-825

522. Stainless steel corrosion scale formed in reclaimed water: Characteristics, model for scale growth and metal element release Article · April 2016 DOI: 10.1016/j.jes.2015.12.035 1st Yong Cui, Shuming Liu, Kate Smith

523. Journal of Solid State Chemistry Volume 241, September 2016, Pages 205–211 Structure and magnetic properties of chromium doped cobalt molybdenum nitrides Niko Guskosa, Grzegorz Żołnierkiewicz, Janusz Typeka, Aleksander Guskosa, Paweł Adamski, Dariusz Moszyński, doi:10.1016/j.jssc.2016.06.018

- 524.** Journal of Alloys and Compounds Volume 688, Part A, 15 December 2016, Pages 376–381 A comparison study of chromium deposition and poisoning on La<sub>0.8</sub>Sr<sub>0.2</sub>Ga<sub>0.8</sub>Mg<sub>0.2</sub>O<sub>3-δ</sub> and Gd<sub>0.1</sub>Ce<sub>0.9</sub>O<sub>2-δ</sub> electrolytes of solid oxide fuel cells Ling Zhao, Yuexiao Cui, Liangqi Gui, Geng Li, Beibei He doi:10.1016/j.jallcom.2016.07.070
- 525.** Shiqing Ma, Jinwen Ye, Anrui Liu, Jia Pang, Synthesis, Characterization, and Consolidation of Cr<sub>2</sub>(C, N) Solid Solution Powders, Journal of the American Ceramic Society 99 [6] 1943–1950 • March in Article 2016, • DOI: 10.1111/jace.14215
- 526.** Journal of Environmental Sciences Volume 48, October 2016, Pages 79–91 Stainless steel corrosion scale formed in reclaimed water: Characteristics, model for scale growth and metal element release Yong Cui, Shuming Liu,, , Kate Smith, Hongying Hu, Fusheng Tang, Yuhong Li, Kanghua Yu Show more Show less http://dx.doi.org/10.1016/j.jes.2015.12.035
- 527.** Xingli Wang, Xiaofeng Wu, Long Yuan, Cuiping Zhou, Yanxiang Wang, Keke Huang, Shouhua Feng, Solar selective absorbers with foamed nanostructure prepared by hydrothermal method on stainless steel, Solar Energy Materials and Solar Cells, Volume 146, Pages 99–106, 2016
- 528.** F r a c t u r e A n a l y s i s o f 5 2 C r M n B A L e a f S p r i n g s  
YAN Jing, FENG Jijun, ZHANG Xinming, LU  
Liu lin, LIU Sheng, Sun Xiaofen [MN#OP] U 4 6 3  
[QRSTU] A doi:10. 3969 / j. issn.  
1673 6214. 2016. 04. 011 August, 2016 Vol.  
11, No. 4 [QVWP] 1673 6214 (2016) 04 0250 06  
doi:10. 3969 / j. issn. 1673 6214. 2016. 04.  
011
- 176.** Stefanov, P., **Stoychev, D.**, Valov, I., Kakanakova-Georgieva, A., Marinova, T.. Electrochemical deposition of thin zirconia films on stainless steel 316 L. Materials Chemistry and Physics, 65, 2, Elsevier, 2000, ISSN:2540584, DOI:10.1016/S0254-0584(00)00251-0, 222-225. SJR:0.818, ISI IF:2.259

Цитира се в:

- 529.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 530.** Journal of Colloid and Interface Science Volume 481, 1 November 2016, Pages 100–106 Bio-inspired immobilization of metal oxides on monolithic microreactor for continuous Knoevenagel reaction Wentong Songa, 1, Da Shia, b, 1, Shengyang Taoa,, , Zhaoliang Lia, Yuchao Wanga, Yongxian Yua, Jieshan Qiuc, Min Jia, Available online 21 July 2016 doi:10.1016/j.jcis.2016.07.052
- 531.** Aristatil Ganesan, Mani Narayanasamy, Karthikeyan S "Ultra low loading of anode catalyst for direct methanol fuel cells with ZrO<sub>2</sub>/ pyrolysed (PANI-melamine) as catalyst support" International in Article Journal of Hydrogen Energy · May 2016 International Journal of Hydrogen Energy Volume 41, Issue 21, 8 June 2016, Pages 8963–8977 Impact Factor: 3.31 · DOI: 10.1016/j.ijhydene.2016.03.135

- 177.** Ikononov, J., **Stoychev, D.**, Marinova, T.. XPS and SEM characterization of electrodeposited transition metals on zirconia. Applied Surface Science, 161, 1, "Elsevier Science Publishers B.V., Amsterdam, Netherlands?", 2000, ISSN:1694332, DOI:10.1016/S0169-4332(00)00033-7, 94-104

Цитира се в:

- 532.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на

- 178. Armyanov, S.** Crystallographic structure and magnetic properties of electrodeposited cobalt and cobalt alloys. *Electrochimica Acta*, 45, 20, "Elsevier Science Ltd, Exeter, United Kingdom?", 2000, ISSN:134686, DOI:10.1016/S0013-4686(00)00408-4, 3323-3335

Цитира се в:

- 533.** J. Tu, S. Zhang, Z. Zhou, H. Tang, Structural characterization of a special boundary between  $\alpha$  plates after martensitic transformation in cobalt, *Materials Characterization*, 112, 219-223 (2016).
- 534.** W. Kozłowski, I. Piwonski, W. Szmaja, M. Zielinski, Quantitative study of the effect of current density on the morphological and magnetic domain structures of electrodeposited nanocrystalline cobalt films, *J. Electroanal. Chem.*, 769, 42-47 (2016)
- 535.** C. Neetzel, T. Ohgai, T. Yanai, M. Nakano, H. Fukunaga, Uniaxial magnetization performance of Co-Al<sub>2</sub>O<sub>3</sub> nano-composite films electrochemically synthesized from acidic aqueous solution, *J. Solid State Electrochem.*, 20, 1665-1672 (2016)
- 536.** M. Кас, A. Zarzycki, S. Кас, M. Коpec, M. Perzanowski, E. M. Dutkiewicz, K. Suchanek, A. Maximenko, M. Marszalek, Effect of the template-assisted electrodeposition parameters on the structure and magnetic properties of Co nanowire arrays, *Mater. Sci. Eng.: B*, 211, 75–84 (2016).
- 537.** Yu. E. Sknar, N. V. Amirulloeva, I. V. Sknar, F. I. Danylov, Influence of Methylsulfonate Anions on the Structure of Electrolytic Cobalt Coatings, *Materials Science*, 52, 396–401 (2016)
- 538.** E. V. Yakushko, L. V. Kozhitov, D. G. Muratov, V. G. Kostishin, NiCo/C nanocomposites: Synthesis and magnetic properties, *Russ. J. Inorg. Chem.*, 61, 1591–1595 (2016)
- 539.** K. Ignatova, I. Piroeva, S. Vladimitova-Atanasova, Effect of the electrodeposition conditions on the morphology and corrosion behavior of Ni-Co alloys Part 1: Chemical composition, cathodic current efficiency, and morphology of Ni-Co alloys electrodeposited from citrate electrolyte., *J. Chemical Technology & Metallurgy.*, 51 (1) 99-105 (2016)
- 540.** K. Ignatova, G. Avdeev, Effect of the electrode position conditions on the morphology and corrosion behavior of Ni-Co alloys part 2: Phase composition and corrosion behavior of Ni-Co alloys, electrodeposited from citrate electrolyte, *J. Chemical Technology & Metallurgy*, 51, (1) 106-111 (2016)
- 541.** K. N. Ignatova, Y. S. Marcheva, Effect of saccharine on the properties of Ni-Co alloy coatings deposited in citrate electrolytes, *Proc. XXV International Scientific Conference Electronics - ET2016*, September 12 - 14, 2016, Sozopol, Bulgaria, Pages: 1 - 4, DOI: 10.1109/ET.2016.7753486.
- 179. Gutzow, I., Ilieva, D., Babalievski, F., Yamakov, V.** Thermodynamics and kinetics of the glass transition: A generic geometric approach. *Journal of Chemical Physics*, 112, 24, "American Inst of Physics, Woodbury, NY, United States?", 2000, ISSN:219606, DOI:10.1063/1.481733, 10941-10948

Цитира се в:

- 542.** Tropin, Timur Vasilievich, Juern W. Schmelzer, and Viktor L. Aksenov. "Modern aspects of the kinetic theory of glass transition." *Physics-Uspekhi* 59.1 (2016): 42.
- 543.** Тропин, Тимур Васильевич, Юрн ВП Шмельцер, and Виктор Лазаревич Аксенов. "Современные аспекты кинетической теории стеклования." *Успехи физических наук* 186.1 (2016): 47-73.
- 180. Avramov, I., Guinev, G., Rodrigues, A.C.M.** Thermal analysis of Li<sub>2</sub>O TeO<sub>2</sub> glass. *Journal of Non-*

Crystalline Solids, 271, 1, "Elsevier Science Publishers B.V., Amsterdam, Netherlands?, 2000, ISSN:223093, DOI:10.1016/S0022-3093(00)00088-0, 12-17

Цумура се в:

544. Xiao, X., Wang, D., Li, Y., Jackson, E., Fang, Y., Zhang, Y., Xie, N., Shi, X., International Journal of Electrochemical Science (2016) 11 ( 7 ) pp. 6023 - 6042 .
545. Sourì D, INDIAN JOURNAL OF PHYSICS, 89 (12):1277-1281; 10.1007/s12648-015-0710-z
546. Sourì, D., Zaliani, H., Mirdawoodi, E., Zendezhaban, M., Measurement: Journal of the International Measurement Confederation (2016), 82 pp. 19 - 25 .
547. Ersundu, MC; Ersundu, AE, JOURNAL OF NON-CRYSTALLINE SOLIDS, 453 150-157; 10.1016/j.jnoncrysol.2016.10.007 DEC 1 2016
548. D Sourì, Z Torkashvand - Journal of Electronic Materials 1-6 (2016)
549. M. Çelikbilek Ersundu,, A.E. Ersundu, J. Non-Crystalline Solids. 453 ( 2016), Pages 150–157

181. Schmelzer, J.W.P., Schmelzer Jr. J., **Gutzow, I.S.** Reconciling Gibbs and van der Waals: A new approach to nucleation theory. Journal of Chemical Physics, 112, 8, 2000, ISSN:219606, 3820-3831. ISI IF:3.017

Цумура се в:

550. Guo, Can, et al. "Interfacial free energy adjustable phase field crystal model for homogeneous nucleation." Soft matter 12.20 (2016): 4666-4673.
551. Liu, Yue, et al. "Pre-nucleation clusters mediated crystallization in Al–Si melts." Scripta Materialia 110 (2016): 87-91.
552. Abyzov, Alexander S., et al. "The effect of elastic stresses on the thermodynamic barrier for crystal nucleation." Journal of Non-Crystalline Solids 432 (2016): 325-333.

182. **Avramov, I.** Pressure dependence of viscosity of glassforming melts. Journal of Non-Crystalline Solids, 262, 1, "Elsevier Science Publishers B.V., Amsterdam, Netherlands?, 2000, ISSN:223093, DOI:10.1016/S0022-3093(99)00712-7, 258-263

Цумура се в:

553. Z Wojnarowska, M Paluch - Dielectric Properties of Ionic Liquids, Springer 2016
554. E Kaminska, M Tarnacka, K Jurkiewicz, K Kaminski, M. Paluch, J. Chem. Phys. 144, 054503 (2016); <http://dx.doi.org/10.1063/1.4940776>
555. YC Hu, BS Shang, PF Guan, Y Yang, HY Bai, Wei-Hua Wang, - The Journal of Chemical Phys., 145, 104503 2016
556. Wojnarowska, Z; Paluch, M, DIELECTRIC PROPERTIES OF IONIC LIQUIDS, 73-113; 10.1007/978-3-319-32489-0\_4 2016
557. Szklarz, G; Adrjanowicz, K; Dulski, M; Knapik, J; Paluch, M, JOURNAL OF PHYSICAL CHEMISTRY B, 120 (43):11298-11306; 10.1021/acs.jpcc.6b08511 NOV 3 2016

183. Bostanov, V., Mladenova, E., **Kashchiev, D.** Nucleation rate in electrocrystallization of cadmium on the Cd(0001) crystal face. Journal of Electroanalytical Chemistry, 481, 1, "Elsevier Sequoia SA, Lausanne, Switzerland?, 2000, ISSN:220728, DOI:10.1016/S0022-0728(99)00471-4, 7-12

Цумура се в:

**558.** Komatsu, Naoyoshi, et al. "Modification of the surface morphology of 4H-SiC by addition of Sn and Al in solution growth with SiCr solvents." *Journal of Crystal Growth* 458 (2017): 37-43.

**184.** Johansson, B., Pugh, R., Alexandrova, L. Flotation de-inking studies using model hydrophobic particles and non-ionic dispersants. *Colloid and Surfaces A*, 170, 2000, 217-229. ISI IF:2.543

Цумура се в:

**559.** Zhang, F., Xu, Y., Yan, X., Cao, Y., Liu, G., Research on bubbles mineralization based on high-speed dynamic microscopic test *Zhongguo Kuangye Daxue Xuebao/Journal of China University of Mining and Technology*, 45 (6), 2016, pp. 1238-1244. Source of the Document *Zhongguo Kuangye Daxue Xuebao/Journal of China University of Mining and Technology* 45 (6), pp. 1238-1244

**185.** Milchev, A. Conformations of random polyampholytes. 2000

Цумура се в:

**560.** Yu, J., Li, Z., Liu, X., Song, S., Gao, G., Zhang, Q., Liu, F. Molecular size and morphology of single chains of poly(sulfobetaine methacrylate) (2016) *Chemical Research in Chinese Universities*, 32 (3), pp. 499-504. 10.1007/s40242-016-5419-9

---

## 2001

---

**186.** Stoychev, D., Papoutsis, A., Kelaidopoulou, A., Kokkinidis, G., Milchev, A.. Electrodeposition of platinum on metallic and nonmetallic substrates — selection of experimental conditions. *Materials Chemistry and Physics*, 72, 3, Elsevier, 2001, ISSN:0254-0584, DOI:doi:10.1016/S0254-0584(01)00337-6, 360-365. SJR:0.818, ISI IF:2.259

Цумура се в:

**561.** Sharmin Sultanaa, Naoki Tachikawaa, Kazuki Yoshiia, Luca Magagninb, \*Kazunobu Toshimaa and Yasushi Katayama, Electrochemical Behavior of Bis(acetylacetonato)platinum(II) Complex in an Amide-Type Ionic Liquid, doi: 10.1149/2.0581608jes *J. Electrochem. Soc.* 2016 volume 163, issue 8, D401-D406

**562.** MEMS 水素ガスセンサのための白金触媒のめっき技術 大井川寛, 池沢聡, 植田敏嗣 - 電気学会論文誌 E (センサ・ ..., 2016 - jstage.jst.go.jp ... OME, 有機エレクトロニクス, Vol.102, No.127, pp.1-5 (2002) (9) D. Stoychev, A. Papoutsis, A. Kelaidopoulou, G. Kokkinidis, and A. Milchev : "Electrodeposition of platinum on metallic and nonmetallic substrates — selection of experimental conditions", *Materials Chemistry and ...*

**563.** Applied Surface Science Volume 390, 30 December 2016, Pages 333–338 Platinum electrodeposition from a dinitrosulfatoplatinate(II) electrolyte Mathias Weisera, Claudia Schulzea, Michael Schneidera,, , Alexander Michaelisa <http://dx.doi.org/10.1016/j.apsusc.2016.08.010>

**564.** Esmat Saghi, Gholam Hossein Rounaghi, Ali Sarafraz-Yazdi, Iman Razavipanaha and Parisa Mirhoseini Moosavi, Fluorine-tin oxide (FTO) electrode modified with platinum nanoparticles dispersed into montmorillonite clay as an effective and low cost catalyst for ethanol electrooxidation, *RSC Adv.*, 2016, 6, 113240-113248 DOI: 10.1039/C6RA19087A Received 27 Jul 2016, Accepted 14 Nov 2016 First published online 01 Dec 2016

**565.** International Journal of Hydrogen Energy Volume 41, Issue 5, 9 February 2016, Pages 3326–3338 Kinetics of hydrogen evolution reaction on nickel modified by spontaneous Ru deposition: A rotating disk electrode and impedance spectroscopy approach Esteban A. Franceschinia,, ,

- 566.** 電気学会論文誌E (センサ・マイクロマシン部門誌) Vol. 136 (2016) No. 12 P 511-514  
記事言語: English Japanese 前の記事 | 次の記事 <http://doi.org/10.1541/ieejsmas.136.511> 論文  
MEMS水素ガスセンサのための白金触媒のめっき技術 大井川 寛1), 池沢 聡1), 植田  
敏嗣1) 1) 早稲田大学大学院情報生産システム研究科 J-STAGE公開日 2016/12/01 受付日  
2015/10/30 再受付日 2016/04/06 キーワード: 水素ガスセンサ, 白金触媒, 白金黒,  
電気めっき, 水晶振動子

- 187. Milchev, A.** Wetting behavior of nanodroplets: The limits of Young's rule validity. 2001

Цумура се в:

- 567.** Gallego-Gomez, F., Morales-Florez, V., Morales, M., Blanco, A., Lopez, C. Colloidal crystals and water: Perspectives on liquid - solid nanoscale phenomena in wet particulate media (2016) Advances in Colloid and Interface Science, 234, pp. 142-160.

- 188. Rodríguez-Pérez M.A., Vasiliev Ts., Dobрева-Veleva A., De Saja J.A., Gutzow I., Velasco J.I.** The activity of inorganic substrates in the catalysed nucleation of different polymer melts. Macromolecular Symposia, 169, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, 2001, ISSN:ISSN: 10221360, 137-142. ISI IF:0.913

Цумура се в:

- 568.** Wypych, G. Handbook of Nucleating Agents (2016) Handbook of Nucleating Agents ISBN: 978-192788512-3;978-189519893-5

- 189. Radeva, Ts.** Physical Chemistry of Polyelectrolytes. Surface Series, 99, Marcel Dekker, New York, 2001, ISBN:978-0824704636

Цумура се в:

- 569.** Momeni, A., Filiaggi, M.J., Rheology of polyphosphate coacervates, J. Rheology 60 (1), 25-34 (2016).
- 570.** Fu, J., Schlenoff, J.B., Driving Forces for Oppositely Charged Polyion Association in Aqueous Solutions: Enthalpic, Entropic, but Not Electrostatic, J. Am. Chem. Soc.138 (3), 980-990 (2016).
- 571.** Urena-Beanavides, E.E., Lin, E.L., Foster, E.L. Xue, Z., Ortiz, M.R., Fei, Y., Larsen, E.S., Kmetz, A.A., Lyon, B.A., Moaseri, E., Bielawski, C.W., Ellison, C.J., Johnston, K.P., Low Adsorption of Magnetite Nanoparticles with Uniform Polyelectrolyte Coatings in Concentrated Brine on Model Silica and Sandstone, Industrial and Engineering Chemistry Research 55 (6), 1522-1532 (2016)
- 572.** Munzert, S.M., Schwarz, G., Kurth, D.G., Tailoring length and viscosity of dynamic metallo-supramolecular polymers in solution, RSC Advances 6 (19), 15441-15450 (2016)
- 573.** Tsakova, V., The Bulgarian physicochemical tradition and the Institute of physical chemistry "Academician Rostislav Kaischew", Chemistry 25 (1), 35-67 (2016).
- 574.** Yang R., Li H., Huang M., Yang H, Li A., A review on chitosan-based flocculants and their applications in water treatment, Water Res. 95, 59-89 (2016).
- 575.** Ghelichi, M., Eikerling, M.H., Conformational Properties of Comb-Like Polyelectrolytes: A Coarse-Grained MD Study, Journal of Physical Chemistry B 120 (10), 2859-2867 (2016)
- 576.** He, W., Frueh, J., Wu, Z., He, Q., How Leucocyte Cell Membrane Modified Janus



Microcapsules are Phagocytosed by Cancer Cells, ACS Applied Materials and Interfaces 8 (7), 4407-4415 (2016).

- 577.** . Xie, Y., Moreno, N., Calo, V.M., Cheng, H., Hong, P.-Y., Sougrat, R., Behzad, A.R., Tayouo, R., Nunes, S.P., Synthesis of highly porous poly(: Tert -butyl acrylate)- b -polysulfone- b -poly(tert -butyl acrylate) asymmetric membranes, Polymer Chemistry 7 (18), 3076-3089 (2016).
- 578.** Boggonie, M.J., Becher, R., Farruggia, B., Single method of purification for endoglucanase from *Aspergillus niger* by polyelectrolyte precipitation, Biocatalysis and Agricultural Biotechnology 7, 118-126 (2016).
- 579.** Guzmán, E., Llamas, S., Maestro, A., Fernández-Peña, L., Akanno, A., Miller, R., Ortega, F., Rubio, R.G., Polymer-surfactant systems in bulk and at fluid interfaces, Advances in Colloid and Interface Science 233, 38-64 (2016)
- 580.** Gai, M., Frueh, J., Kudryavtseva, V.L., Mao, R., Kiryukhin, M.V., Sukhorukov, G.B., Patterned Microstructure Fabrication: Polyelectrolyte Complexes vs Polyelectrolyte Multilayers, Scientific Reports 6, 37000 (2016).
- 581.** Mehrdad, A., Taleb-Abbasi, M., Influence of some inorganic salts on the intrinsic viscosity of poly(acrylic acid) in aqueous solutions, Journal of Molecular Liquids, 223, 699-706 (2016)
- 582.** Momeni, A., Filiaggi, M.J., Degradation and hemostatic properties of polyphosphate coacervates, Acta Biomaterialia 41, 328-341 (2016).
- 583.** Hsiao, P.-Y., Conformation change, tension propagation and drift-diffusion properties of polyelectrolyte in nanopore translocation, Polymers 8 (10), 378 (2016).
- 584.** Farkas, E., Patko, D., Khanh, N.Q., Toth, E., Vonderviszt, F., Horvath, R., Self-assembly and structure of flagellin-polyelectrolyte composite layers: Polyelectrolyte induced flagellar filament formation during the alternating deposition process, RSC Advances 6 (95), 92159-92167 (2016).
- 585.** Schmidt, U.S., Schuchmann, H.P., Polyelectrolyte properties of citrus pectins and their influence on oil-in-water emulsions, In: Gums and Stabilisers for the Food Industry, (P.A. Williams, G.O. Phillips, Eds.), 2016, p. 115-122.
- 586.** Taylor, E., Solution properties of ionomers in low-polarity solvents containing ionic liquids, Rutgers, The State University of New Jersey, PhD Thesis, 2016.
- 587.** Huang, Y., Applications of Polyvinylamine in Removal of Heavy Metals from Wastewater by Polymer-Enhanced Ultrafiltration and Adsorption, University of Waterloo, Ontario, Canada, PhD Thesis, 2016.
- 588.** Dyakonova, M.A., Stimuli-responsive reversible hydrogels from polyampholytes, Technische Universität Munchen, PhD Thesis, 2016.
- 190.** V. Tsakova, S. Winkels, J.W. Schultze. Crystallization kinetics of Pd in composite films of PEDT. Journal of Electroanalytical Chemistry, 500, Elsevier, 2001, 574-583. ISI IF:2.729

Цумура се в:

- 589.** V V Kondratiev, V V Malev, S N Eliseeva, Composite electrode materials based on conducting polymers loaded with metal nanostructures, Russ. Chem. Rev. 85 (2016) 14 – 37.
- 590.** O.L. Gribkova, O.D. Iakobson, A.A. Nekrasov, V.A. Cabanova, V.A. Tsverskoy, A.V. Vannikov, The influence of polyacid nature on poly(3, 4-ethylenedioxythiophene) electrosynthesis and its spectroelectrochemical properties, J. Solid State Electrochem., 20 (2016) 2991-3001.

- 191.** Valova, E., Armyanov, S., Franquet, A., Hubin, A., Steenhaut, O., Delplancke, J.-L., Vereecken, J.

"Electroless deposited Ni-Re-P, Ni-W-P and Ni-Re-W-P alloys. Journal of Applied Electrochemistry, 31, 12, 2001, ISSN:0021891X, DOI:10.1023/A:1013862729960, 1367-1372. ISI IF:2.409

Цитира се в:

- 591.** В. Цакова, Институтът по физикохимия „Академик Ростислав Каишев“ – носител и продължител на традицията на българската физикохимична школа, Khimiya/Chemistry: Bulgarian Journal of Science Education, 25, 35-67 (2016)
- 592.** Bangwei Zhang, Ch. 2, Electroless Plating Baths of Metals, Binary Alloys, and Multicomponent Alloys in “Amorphous and Nano Alloys Electroless Depositions”, 2016, Pages 51-106.
- 593.** S.M.A. Shibli, K.S. Chinchu, Development and electrochemical characterization of Ni-P coated tungsten incorporated electroless nickel coatings Materials Chemistry and Physics, 178, 21-30 (2016)
- 594.** A. Nikitasari, E. Mabururi, Study of electroless Ni-W-P alloy coating on martensitic stainless steel, AIP Conference Proceedings, 1725 020053 (2016) (1, 3rd International Conference on Advanced Materials Science and Technology, 2015).
- 192.** Boshkov, N., Vitkova, S., Petrov, K.. Corrosion products of zinc-manganese coatings: Part I - Investigations using microprobe analysis and X-ray diffraction. Metal Finishing, 99, 9, 2001, ISSN:260576, 56-60

Цитира се в:

- 595.** Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., “Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings from acidic chloride electrolyte containing 4-hydroxybenzaldehyde and ammonium thiocyanate”, (2016), Surface and Coatings Technology, 298, 73-82.
- 596.** Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., “Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings”, (2016), MA2016-01, 229-th ECS Meeting, San Diego, CA, Meeting Abstract
- 597.** Feng, Z., An, M., Ren, L., Zhang, J., Yang, P., Chen, Z., “Corrosion mechanism of nanocrystalline Zn-Ni alloys obtained from a new DMH-based bath as a replacement for Zn and Cd coatings”, (2016), RSC Advances, 6, (69), 64726-64740.
- 193.** Arbib, M., Zhang, B., Lazarov, V., **Stoychev, D.**, Milchev, A., Buess-Herman, C.. Electrochemical nucleation and growth of rhodium on gold substrates. Journal of Electroanalytical Chemistry, 510, 1-2, Elsevier, 2001, ISSN:1572-6657, DOI:10.1016/S0022-0728(01)00545-9, 67-77. SJR:0.776, ISI IF:2.729

Цитира се в:

- 598.** Nucleation Controlled Mechanism of Cathode Discharge in a Ni/NiCl<sub>2</sub> Molten Salt Half-Cell Battery S. E. Rocka, D. E. Simpsona, M. C. Turka, J. T. Rijssenbeekb, G. D. Zappib, \* and D. Roy, z doi: 10.1149/2.0641610jes J. Electrochem. Soc. 2016 volume 163, issue 10, A2282-A2292
- 194.** Nanev, C.N., Penkova, A.. Nucleation of lysozyme crystals under external electric and ultrasonic fields. Journal of Crystal Growth, 232, 4-Jan, 2001, ISSN:220248, DOI:10.1016/S0022-0248(01)01169-1, 285-293

Цитира се в:

- 599.** Martínez-Caballero, Siseth, et al. "Glucose Isomerase Polymorphs Obtained Using an Ad Hoc Protein Crystallization Temperature Device and a Growth Cell Applying an Electric Field."

Crystal Growth & Design 16.3 (2016): 1679-1686.

600. Takeda, Yoshihiro, and Fumitaka Mafuné. "Induction of protein crystallization by platinum nanoparticles." *Chemical Physics Letters* 647 (2016): 181-184.
601. Pareja-Rivera, Carina, et al. "Recent Advances in the Understanding of the Influence of Electric and Magnetic Fields on Protein Crystal Growth." *Crystal Growth & Design* (2016).
602. Zhang, Chen-Yan, et al. "Effect of Audible Sound on Protein Crystallization." *Crystal Growth & Design* 16.2 (2016): 705-713.
603. Han, Bing, Zhi Chen, and Marjatta Louhi-Kultanen. "Effect of a pulsed electric field on the synthesis of TiO<sub>2</sub> and its photocatalytic performance under visible light irradiation." *Powder Technology* 307 (2017): 137-144.
604. Mani, Rajaboopathi, Bing Han, and Marjatta Louhi-Kultanen. "Pulsed electric field assisted sol-gel preparation of TiO<sub>2</sub> nanoparticles." *Journal of Crystal Growth* 451 (2016): 200-206.
605. Koizumi, Haruhiko, et al. "Technique for High-Quality Protein Crystal Growth by Control of Subgrain Formation under an External Electric Field." *Crystals* 6.8 (2016): 95.
606. Janičević, Ž., M. J. Lukić, and L. Veselinović. "Alternating current electric field modified synthesis of hydroxyapatite bioceramics." *Materials & Design* 109 (2016): 511-519.
607. Wakamatsu, Takashi. "Low Applied Voltage Effects on Thaumatin Protein Crystallization." *Transactions of the Materials Research Society of Japan* 41.1 (2016): 13-15.

195. **Krastev, I.**, Zielonka, A., Nakabayashi, S., Inokuma, K.. A cyclic voltammetric study of ferrocyanide-thiocyanate silver electrodeposition electrolyte. *Journal of Applied Electrochemistry*, 31, 9, 2001, ISSN:0021891X, DOI:10.1023/A:1017943327755, 1041-1047

*Цитира се в:*

608. Bo Zheng, Lai Peng Wong, Linda Y. L. Wu, and Zhong Chen, Cyclic Voltammetric Study of High Speed Silver Electrodeposition and Dissolution in Low Cyanide Solutions, *International Journal of Electrochemistry*, Volume 2016 (2016), Article ID 4318178, 11 pages, <http://dx.doi.org/10.1155/2016/4318178>

196. **Tsakova, V.**, Borissov, D., **Rangelov, B.**, Stromberg, Ch., Schultze, J.W.. Electrochemical incorporation of copper in polyaniline layers. *Electrochimica Acta*, 46, 26-27, 2001, ISSN:134686, DOI:10.1016/S0013-4686(01)00705-8, 4213-4222

*Цитира се в:*

609. Sanchez-Jiménez, M., Estrany, F., Alemán, C., Properties of Cu nanoparticles-poly(N-methylpyrrole) composites, *Polymer Composites*, volume 37, Issue 2, 1 February 2016, pages 594-601
610. Kondratiev, V.V., Malev, V.V., Eliseeva, S.N., Composite electrode materials based on conducting polymers loaded with metal nanostructures, *Russian Chemical Reviews* Volume 85, Issue 1, 2016, Pages 14-37
611. E. Bhardwaj, S. Prasher, M. Kumar, U. Kaur, M. Sahni, Structural and Thermal Adaptations in Polyaniline Emeraldine Salt Composites with Ferrous Oxalate, *J. Electronic Mat.* (2016) DOI: 10.1007/s11664-016-5107-z

197. **Tsakova, V.**, Borissov, D., Ivanov, S.. Role of polymer synthesis conditions for the copper electrodeposition in polyaniline. *Electrochemistry Communications*, 3, 6, 2001, ISSN:13882481, DOI:10.1016/S1388-2481(01)00160-6, 312-316

Цумура се в:

**612.** V V Kondratiev, V V Malev, S N Eliseeva, Composite electrode materials based on conducting polymers loaded with metal nanostructures, Russ. Chem. Rev. 85 (2016) 14 – 37.

**198. Mirkova, L.,** Maurin, G., **Krastev, I.,** Tsvetkova, C.. Hydrogen evolution and permeation into steel during zinc electroplating; effect of organic additives. Journal of Applied Electrochemistry, 31, 6, 2001, ISSN:0021891X, DOI:10.1023/A:1017522800822, 647-654

Цумура се в:

**613.** Medcalf, John Steven. Effect of surface hardening conditions on susceptibility of fasteners to hydrogen embrittlement. Diss. University of Illinois at Urbana-Champaign, 2016.

**614.** Esfahani, M., Zhang, J., Durandet, Y., Wang, J., & Wong, Y. C. (2016). Electrodeposition of Nanocrystalline Zinc from Sulfate and Sulfate-Gluconate Electrolytes in the Presence of Additives, Journal of The Electrochemical Society, 163(9), D476-D484

**199. Cioffi, N.,** Torsi, L., Losito, I., Di Franco, C., De Bari, I., Chiavarone, L., Scamarcio, G., **Tsakova, V.,** Sabbatini, L., Zambonin, P.G.. Electrosynthesis and analytical characterisation of polypyrrole thin films modified with copper nanoparticles”. Journal of Materials Chemistry, 11, 5, 2001, ISSN:9599428, DOI:10.1039/b009857o, 1434-1440

Цумура се в:

**615.** M. Sanchez-Jiménez, F. Estrany, C. Alemán, Properties of Cu nanoparticles–poly(N-methylpyrrole) composites, Polymer Composites, 37 (2016), 594-601.

**616.** N. Aravindan, M.V. Sangaranarayanan, Influence of solvent composition on the anti-corrosion performance of copper–polypyrrole (Cu–PPy) coated 304 stainless steel, Progres Org. Coatings, 95, (2016) 38 – 45.

**200. Milchev, A., Stoychev, D.,** Lazarov, V., Papoutsis, A., Kokkinidis, G.. Electrocrystallisation of metal catalysts:nucleation and growth of platinum on a titanium electrode. Journal of Crystal Growth, 226, Elsevier, 2001, ISSN:0022-0248, DOI:doi:10.1016/S0022-0248(01)01280-5, 138-147. SJR:0.772, ISI IF:1.698

Цумура се в:

**617.** Journal of Solid State Chemistry Volume 244, December 2016, Pages 35–44 Compositionally graded Fe(1-x)-Pt(x) nanowires produced by alternating current electrodeposition into alumina templates Ali Fardi-Ilkhchya, Farzad Nasirpouria,, , Cristina Branb, Manuel Vázquez <http://dx.doi.org/10.1016/j.jssc.2016.08.016>

**618.** Y.Chun et al. Compositionally graded Fe(1-x)-Pt(x) nanowires by alternating current electrodeposition into alumina templates Article · August 2016 DOI: 10.1016/j.jssc.2016.08.016

**201. Valova, E.,** Georgiev, I., **Armyanov, S.,** Delplancke, J.-L., Tachev, D., Tsacheva, Ts., Dille, J.. "Incorporation of Zinc in Electroless Deposited Nickel-Phosphorus Alloys: I. a Comparative Study of Ni-P and Ni-Zn-P Coatings Deposition, Structure, and Composition”. Journal of the Electrochemical Society, 148, 4, 2001, ISSN:134651, DOI:10.1149/1.1354598, C266-C273

Цумура се в:

**619.** Y. Zhang, C. Zhao, Maodong Li, K. Ma, L. Wang, J. Ni,, Lanmei Xia, Optimization of Bath Formula for Electroless Plating of Ternary Ni-Zn-P Alloys, Corr. Sci. & Protect. Technol., 28, 206-214 (2016)

- 620.** P. Gadhari, P. Sahoo, Effect of TiO<sub>2</sub> particles on micro-hardness, corrosion, wear and friction of Ni-P-TiO<sub>2</sub> composite coatings at different annealing temperatures, *Surface Review and Letters*, 23 (1) 1550082-1--1550082-15 (2016).
- 621.** Bangwei Zhang, Ch. 9 “Surface Morphologies” in “Amorphous and Nano Alloys Electroless Depositions”, 2016, Pages 503-579.
- 622.** S. Sharma, S. Sharma, A. Sharma, V. Agarwala, Co-deposition of Synthesized ZnO Nanoparticles into Ni-P Matrix Using Electroless Technique and Their Corrosion Study, *J. Mater. Engineer. Performance*, 25, 4383–4393 (2016)

- 202. Valova, E., Armyanov, S., Franquet, A., Steenhaut, O., Hubin, A., Vereecken, J., Delplancke, J.-L..** Incorporation of Zinc in Electroless Deposited Nickel-Phosphorus Alloys: II. Compositional Variations Through Alloy Coating Thickness. *Journal of the Electrochemical Society*, 148, 4, 2001, ISSN:134651, DOI:10.1149/1.1354599, C274-C279

*Цумура се в:*

- 623.** T. Sakai, Y. Kamimoto, R. Ichino, Preparation of electrodeposited Zn–Ni–B alloy coatings, *Japanese Journal of Applied Physics*, 55, 01AA24 (2016).

- 203. Milchev, A.** Formation of block copolymer micelles in solution: a Monte Carlo study of chain length dependence. 2001

*Цумура се в:*

- 624.** Williams, M.J., Bachmann, M. Significance of bending restraints for the stability of helical polymer conformations (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (6), art. no. 062410, 10.1103/PhysRevE.93.062501
- 625.** Ma, Y., Lodge, T.P. Poly(methyl methacrylate)-block-poly(n-butyl methacrylate) Diblock Copolymer Micelles in an Ionic Liquid: Scaling of Core and Corona Size with Core Block Length (2016) *Macromolecules*, 49 (9), pp. 3639-3646. 10.1021/acs.macromol.6b00315
- 626.** Zierenberg, J., Marenz, M., Janke, W. Dilute Semiflexible Polymers with Attraction: Collapse, Folding and Aggregation (2016) *Polymers*, 8 (9), art. no. 333 10.3390/
- 627.** Liewehr, B., Bachmann, M. Homopolymer adsorption on hexagonal surfaces: A replica-exchange Monte Carlo study (2016) *Journal of Physics: Conference Series*, 686 (1), art. no. 012002, 10.1088/1742-6596/686/1/012002

- 204. Tachev, D., Georgieva, J., Armyanov, S..** Magnetothermal study of nanocrystalline particle formation in amorphous electroless Ni–P and Ni–Me–P alloys. *Electrochimica Acta*, 47, 1-2, Pergamon, 2001, DOI:10.1016/S0013-4686(01)00587-4, 359-369. SJR:1.288, ISI IF:4.504

*Цумура се в:*

- 628.** A. Martínez-Hernández, F. Manríquez-Guerrero, J. Torres, R. Ortega, J. de Jesús Pérez-Bueno, Y. Meas, G. Trejo, A. Méndez-Albores, Ch. 7 Electrodeposition of Ni-P/SiC Composite Films with High Hardness, in *Electrodeposition of Composite Materials*, Eds A. M. A. Mohamed and T.D. Golden, INTECH, 282 pages, March, 2016, ISBN 978-953-51-2270-8.
- 629.** M.S. Rohani, M.R. Sahar, M. H. Halim, Kinetic Study on the Crystallization of Sodium Lead Borate Glass by Differential Thermal Analyzer, *International Journal of Physical Sciences* 1(1) : 49-54, 2016, ISSN: 2415-0355

- 205. Valova E., Armyanov S., Franquet A., Steenhaut O., Hubin A., Vereecken J., Delplancke J.-L..** Incorporation of Zinc in Electroless Deposited Nickel-Phosphorus Alloys. II. Compositional Variations

through Alloy Coating Thickness. Journal of the Electrochemical Society, 148, 4, The Electrochemical Society, 2001, C274-C279. ISI IF:1.58

Цитирана се в:

- 630.** T. Sakai, Y. Kamimoto, R. Ichino, Preparation of electrodeposited Zn–Ni–B alloy coatings, Japanese Journal of Applied Physics, 55, 01AA24 (2016).
- 206.** Kokkinidis, G., **Stoychev, D.**, Lazarov, V., Papoutsis, A., Milchev, A.. Electroless deposition of Pt on Ti: Part II. Catalytic activity for oxygen reduction. Journal of Electroanalytical Chemistry, 511, 1-2, Elsevier, 2001, ISSN:1572-6657, DOI:10.1016/S0022-0728(01)00505-8, 20-30. SJR:0.776, ISI IF:2.729

Цитирана се в:

- 631.** Rutile TiO<sub>2</sub> Supported Pt as Stable Electrocatalyst for Improved Oxygen Reduction Reaction and Durability in Polymer Electrolyte Fuel Cells Article · September 2016, Electroanalysis, DOI: 10.1007/s12678-016-0329-7 1st P. Dhanasekaran 2nd S. Vinod Selvaganesh 3rd L. Sarathi 4th S D Bhat 33.67 · CSIR-Central Electrochemical Research I
- 632.** Ioanna Mintsouli, Jenia Georgieva, Athanasios Papaderakis, Stephan Armyanov, Eugenia Valova, Volodymyr Khomenko, Stella Balomenou, Dimitrios Tsiplakides, Sotiris Sotiropoulos, Methanol oxidation at platinized copper particles prepared by galvanic replacement, J. Electrochem. Sci. Eng., 6(1) (2016) 17-28; doi: 10.5599/jese.239
- 633.** Zakiya Al Amri, Michael P. Mercer., Natasa Vasiljevic, Surface Limited Redox Replacement Deposition of Platinum Ultrathin Films on Gold: Thickness and Structure Dependent Activity towards the Carbon Monoxide and Formic Acid Oxidation reactions, Electrochimica Acta, Volume 210, 20 August 2016, Pages 520–529, doi:10.1016/j.electacta.2016.05.161
- 634.** Catalysts 2016, 6(8), 125; doi:10.3390/catal6080125 Effects of the Electrodeposition Time in the Synthesis of Carbon-Supported Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Polymer Electrolyte Fuel Cells Griselda Caballero-Manrique 1, Immad Muhammed Nadeem 2, 3, Enric Brillas 1, Francesc Centellas 1, José Antonio Garrido 1, Rosa María Rodríguez 1 and Pere-Lluís Cabot 1, \*

---

## 2002

---

- 207.** Avramov, I., Argyrakakis, P.. Langmuir. 2002, ISSN:1520-5827, 3376-3379. SJR:4.5

Цитирана се в:

- 635.** J Zhao, Y Sun, Y Gao - Science China Chemistry, 59 (7):824-829 2016 doi: 10.1007/s11426-016-5565-4
- 208.** Stefanov P., Atanasova G., **Stoychev D.**, Valov I., Marinova Ts.. XPS ANALYSIS OF THE OXIDATION STATE OF ELECTROCHEMICALLY DEPOSITED CERIUM OXIDE FILMS. "Physical Chemistry 2002", Proceedings Vol. I of the 6th Internat. Conf. on Fundam. And Appl. Aspects of Phys. Chem., September (2002), Yugoslavia., I, University of Beograd, Yugoslavia, 2002

Цитирана се в:

- 636.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и У за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

**209. I. Avramov, G. Voelksch.** Near-Surface Crystallization Of Cordierite Glass. *Journal Non Crystalline Solids*, 304, Elsevier, 2002, 25-30. ISI IF:1.766

*Цумура се в:*

**637.** Wisniewski, W; Russel, C, *SCANNING*, 38 (2):164-171; 10.1002/sca.21251 MAR-APR 2016

**210. Milchev, A.** Polymer nanodroplets adsorbed on nanocylinders: A Monte Carlo study. 2002

*Цумура се в:*

**638.** Choi, E.Y., Kim, S.W., Kim, C.K. In situ grafting of polybutylene terephthalate onto multi-walled carbon nanotubes by melt extrusion, and characteristics of their composites with polybutylene terephthalate (2016) *Composites Science and Technology*, 132, pp. 101-107. 10.1016/j.compscitech.2016.07.003

**211. Milchev, A.** Nanodroplets on a solid plane: wetting and spreading in a Monte Carlo simulation. 2002

*Цумура се в:*

**639.** Thampi, S.P., Pagonabarraga, I., Adhikari, R., Govindarajan, R. Universal evolution of a viscous-capillary spreading drop (2016) *Soft Matter*, 12 (28), pp. 6073-6078. 10.1039/c6sm01167e

**212. Milchev, A.** Droplet spreading: A Monte Carlo test of Tanner's law. 2002

*Цумура се в:*

**640.** Roy, A.C., Yadav, M., Arul, E.P., Khanna, A., Ghatak, A. Generation of Aspherical Optical Lenses via Arrested Spreading and Pinching of a Cross-Linkable Liquid (2016) *Langmuir*, 32 (21), pp. 5356-5364. 10.1021/acs.langmuir.5b04631

**641.** Isele-Holder, R.E., Ismail, A.E. Classification of precursors in nanoscale droplets (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (4), art. no. 043319, 10.1103/PhysRevE.93.043319

**642.** Thampi, S.P., Pagonabarraga, I., Adhikari, R., Govindarajan, R. Universal evolution of a viscous-capillary spreading drop (2016) *Soft Matter*, 12 (28), pp. 6073-6078. 10.1039/c6sm01167e

**213. Khristov, K., Exerowa, D., Minkov, G..** Critical capillary pressure for destruction of single foam films and foam: Effect of foam film size. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 210, 3-Feb, 2002, ISSN:9277757, DOI:10.1016/S0927-7757(02)00377-1, 159-166

*Цумура се в:*

**643.** Pagureva, N.; Tcholakova, S.; Rusanova, K.; et al., Factors affecting the coalescence stability of microbubbles, *Colloids&Surfaces A*, 508 (2016) 21-29

**644.** Briceno-Ahumada, Zenaida; Drenckhan, Wiebke; Langevin, Dominique, Coalescence In Draining Foams Made of Very Small Bubbles, *Phys.Rev.Letters*, 116 12 (2016) Article Number: 128302

**645.** Briceno-Ahumada, Zenaida; Maldonado, Amir; Imperor-Clerc, Marianne; et al., On the stability of foams made with surfactant bilayer phases, *Soft Matter*, 12 5 (2016) 1459-1467

**214. Valov, I., Stoychev, D., Marinova, Ts..** Study of the kinetics of processes during electrochemical deposition of zirconia from nonaqueous electrolytes. *Electrochimica Acta*, 47, 28, Elsevier, 2002,

Цитира се в:

- 646.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 647.** Dental Materials Volume 32, Issue 3, March 2016, Pages 403–411 Comparison of resin bonding improvements to zirconia between one-bottle universal adhesives and tribochemical silica coating, which is better? Haifeng Xiea, Qiao Lib, Feimin Zhanga, Yi Luc, Franklin R. Tayd, Mengke Qiana, Chen Chen doi:10.1016/j.dental.2015.12.014
- 648.** D. Mi & C. Yang, Formation and characterisation of zirconium-based conversion coating on steel, Surface Engineering, Pages 1-7 | Received 08 Jun 2016, Accepted 21 Oct 2016, Published online: 29 Nov 2016
- 215. Kashchiev, D., Firoozabadi, A..** Nucleation of gas hydrates. Journal of Crystal Growth, 243, 4-Mar, 2002, ISSN:220248, DOI:10.1016/S0022-0248(02)01576-2, 476-489

Цитира се в:

- 649.** Warriar, Pramod, et al. "Overview: Nucleation of clathrate hydrates." The Journal of Chemical Physics 145.21 (2016): 211705.
- 650.** Sampaio, Tatiana P., Frederico W. Tavares, and Paulo LC Lage. "Non-isothermal population balance model for formation and dissociation of gas hydrates." Chemical Engineering Science (2016), doi.org/10.1016/j.ces.2016.12.012
- 651.** Smirnov, Vyacheslav G., et al. "Formation and decomposition of methane hydrate in coal." Fuel 166 (2016): 188-195.
- 652.** Esmail, Shefaza, and Juan G. Beltran. "Methane hydrate propagation on surfaces of varying wettability." Journal of Natural Gas Science and Engineering 35 (2016): 1535-1543.
- 653.** Sun, Shicai, et al. "Stochastic nature of nucleation and growth kinetics of THF hydrate." The Journal of Chemical Thermodynamics 107 (2016) 141–152
- 654.** Li, Huijuan, et al. "Raman Spectroscopic Studies of Clathrate Hydrate Formation in the Presence of Hydrophobized Particles." The Journal of Physical Chemistry A 120.3 (2016): 417-424.
- 655.** Stoporev, Andrey S., et al. "Nucleation of methane hydrate in water-in-oil emulsions: role of the phase boundary." Energy & Fuels 30.5 (2016): 3735-3741.
- 656.** Rezaei, Erfan, Mehrdad Manteghian, and Marzieh Tamaddondar. "Kinetic study of ethylene hydrate formation in presence of graphene oxide and sodium dodecyl sulfate." Journal of Petroleum Science and Engineering 147 (2016): 857-863.
- 657.** Max, Michael D., and Arthur H. Johnson. "Economic Characteristics of Deepwater Natural Gas Hydrate." Exploration and Production of Oceanic Natural Gas Hydrate. Springer International Publishing, 2016. 39-73.
- 658.** AlHarooni, K. M., et al. "Evaluation of Different Hydrate Prediction Software and Impact of Different MEG Products on Gas Hydrate Formation and Inhibition." Offshore Technology Conference Asia. Offshore Technology Conference, 2016.
- 659.** Maeda, Nobuo. "Nucleation curves of methane–propane mixed gas hydrates in hydrocarbon oil." Chemical Engineering Science 155 (2016): 1-9.
- 660.** Sundramoorthy, Jega Divan, et al. "Gas Hydrate Gas Hydrate Equilibrium Measurement and



Observation of Gas Hydrate Dissociation with/without a KHI." *Procedia Engineering* 148 (2016): 870-877.

661. Kumar, Asheesh, et al. "Crystallization kinetics for carbon dioxide gas hydrate in fixed bed and stirred tank reactor." *Korean Journal of Chemical Engineering* 33.6 (2016): 1922-1930.
  662. Maeda, Nobuo. "Nucleation curves of methane–propane mixed gas hydrates in the presence of a stainless steel wall." *Fluid Phase Equilibria* 413 (2016): 142-147.
  663. Saikia, Tinku, and Vikas Mahto. "Experimental investigations of clathrate hydrate inhibition in water based drilling fluid using green inhibitor." *Journal of Petroleum Science and Engineering* 147 (2016): 647-653.
  664. Saikia, Tinku, and Vikas Mahto. "Evaluation of 1-Decyl-3-Methylimidazolium Tetrafluoroborate as clathrate hydrate crystal inhibitor in drilling fluid." *Journal of Natural Gas Science and Engineering* 36 (2016): 906-915.
  665. Rage, Kristoffer. *Analysis of Gas Hydrate Growth Models*. MS thesis. University of Stavanger, Norway, 2016.
  666. Melchuna, Aline Mendes. *Experimental study and modeling of methane hydrates cristallization under flow from emulsions with variable fraction of water and anti-agglomerant*. Diss. Ecole Nationale Supérieure des Mines de Saint-Etienne, 2016.
  667. Kamal, Muhammad Shahzad, et al. "Application of various water soluble polymers in gas hydrate inhibition." *Renewable and Sustainable Energy Reviews* 60 (2016): 206-225.
  668. Heeschen, Katja U., Judith M. Schicks, and Gunnar Oeltzschner. "The promoting effect of natural sand on methane hydrate formation: Grain sizes and mineral composition." *Fuel* 181 (2016): 139-147.
  669. Sun, Qibei, and Yong Tae Kang. "Review on CO<sub>2</sub> hydrate formation/dissociation and its cold energy application." *Renewable and Sustainable Energy Reviews* 62 (2016): 478-494.
  670. Wang, Fei, et al. "Effects of surfactant micelles and surfactant-coated nanospheres on methane hydrate growth pattern." *Chemical Engineering Science* 144 (2016): 108-115.
216. **Boshkov, N.**, Petrov, K., Vitkova, S., Nemska, S., Raichevsky, G.. Composition of the corrosion products of galvanic alloys Zn-Co and their influence on the protective ability. *Surface and Coatings Technology*, 157, 3-Feb, 2002, ISSN:2578972, DOI:10.1016/S0257-8972(02)00161-5, 171-178
- Цумура се в:*
671. Winiarski J., Tylus W., Szczygiel B., "EIS and XPS investigations on the corrosion mechanism of ternary Zn–Co–Mo alloy coatings in NaCl solution", (2016), *Applied Surface Science*, 364, (28), 455-466.
  672. Winiarski J., Szczygiel B., "The influence of iron and molybdenum on the corrosion proces of protective ternary Zn–Fe–Mo alloy coatings in chloride solution", (2016), *Ochrona przed Korozia*, 4, 94-97.
  673. Azizi F., Kahoul A., "Electrodeposition and corrosion behaviour of Zn–Co coating produced from a sulphate bath", (2016), *Transactions of the IMF*, 94, (1), 43-48.
  674. Tafreshi M., Allahkaram S.R., Farhangi H., "Comparative study on structure, corrosion properties and tribological behavior of pure Zn and different Zn-Ni alloy coatings", (2016), *Materials Chemistry and Physics*, 183, 263-272.
217. **D. Stoychev**, P. Stefanov, **D. Nicolova**, I. Valov, Ts. Marinova. Chemical composition and corrosion resistance of passive chromate films formed on stainless steels 316 L and 1.4301. *Materials Chemistry*

and Physics, 73, 2-3, Elsevier, 2002, ISSN:0254-0584, DOI:10.1016/S0254-0584(01)00376-5, 252-258. SJR:0.818, ISI IF:2.259

Цумура се в:

- 675.** Hokkaido University Collection of Scholarly and Academic Papers > Theses > 2016 博士 (工学) > Issue Date: 26-Sep-2016 Development of balloon-expandable stents for treatment of eccentric plaque considering surface roughening Achmad\_Syaifudin.pdf 7.31 MB PDF View/Open Please use this identifier to cite or link to this item:<http://hdl.handle.net/2115/63333>
- 676.** Intelligent saline enabled self-healing of multilayer coatings and its optimization to achieve redox catalytically provoked anti-corrosion ability Applied Surface Science, Volume 383, 15 October 2016, Pages 177–190 DOI: 10.1016/j.apsusc.2016.04.178 Syed Junaid Ali, S. C. Tang, Nanjing University, Xiangkang Meng
- 677.** Materials Letters Volume 177, 15 August 2016, Pages 94–98 Osteoblast cell response to oxide films formed on nanograin 316L stainless steel obtained by two-dimensional linear plane-strain machining Mahdis Shayana, Marzyeh Moradib, Anton Y. Plakseychukc, Ravi Shankara, Youngjae Chun doi:10.1016/j.matlet.2016.04.178
- 678.** Mahdis Shayan, NOVEL SURFACE MODIFICATION TECHNIQUES TO ENHANCE BIOCOMPATIBILITY OF METALLIC MATERIALS FOR MEDICAL IMPLANTS, University of Pittsburgh, SWANSON SCHOOL OF ENGINEERING defended on June 03, 2016
- 218.** Ivanov, S., **Tsakova, V.** Influence of copper anion complexes on the incorporation of metal particles in polyaniline. Part I: Copper citrate complex. Journal of Applied Electrochemistry, 32, 6, 2002, ISSN:0021891X, DOI:10.1023/A:1020131819823, 701-707

Цумура се в:

- 679.** M. Goswami, R. Ghosh, A.K. Meikap, Synthesis and Characterization of New Polyaniline-Ni Nanocomposite, Adv. Sci, Lett. 22, (2016) 229 – 231.
- 680.** M.E. Abdelhamid, G.A. Snook, A.P. O'Mullane, Electrochemical Tailoring of Fibrous Polyaniline and Electroless Decoration with Gold and Platinum Nanoparticles, - Langmuir, (2016), 32 (2016), 8834-8842.
- 219.** **Boshkov, N.**, Petrov, K., Vitkova, S.. Corrosion products of zinc-manganese coatings-part III: Double-protective action of manganese. Metal Finishing, 100, 6, 2002, ISSN:260576, DOI:10.1016/S0026-0576(02)82009-8, 98-102

Цумура се в:

- 681.** Touazi, S., Bucko, M., Makhloufi, L., Legat, A., Bajat, J.B., “The electrochemical behavior of Zn-Mn alloy coating in carbonated concrete solution”, (2016), Surface Review and Letters, 23, (4), art. No. 1650030.
- 682.** Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., “Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings from acidic chloride electrolyte containing 4-hydroxybenzaldehyde and ammonium thiocyanate”, (2016), Surface and Coatings Technology, 298, 73-82.
- 220.** Ivanov, S., **Tsakova, V.** Influence of copper anion complexes on the incorporation of metal particles in polyaniline. Part II: Copper oxalate complex. Journal of Applied Electrochemistry, 32, 6, 2002, ISSN:0021891X, DOI:10.1023/A:1020180703196, 709-715

Цумура се в:

- 683.** M. Goswami, R. Ghosh, A.K. Meikap, Synthesis and Characterization of New Polyaniline-Ni Nanocomposite, *Adv. Sci, Lett.* 22, (2016) 229 – 231.
- 684.** M.E. Abdelhamid, G.A. Snook, A.P. O'Mullane, Electrochemical Tailoring of Fibrous Polyaniline and Electroless Decoration with Gold and Platinum Nanoparticles, - *Langmuir*, (2016), 32 (2016), 8834-8842.
- 685.** K. Zhang, X. Yang, J. Wu, X. Huang, Y. Yao, Optimization of the Process Parameters for the Synthesis Process of Battery-Grade Ferrous Oxalate by Response Surface Method, *Nano*, 11 (2016) Article number 1650123

**221. Kashchiev, D., Firoozabadi, A..** Driving force for crystallization of gas hydrates. *Journal of Crystal Growth*, 241, 2-Jan, 2002, ISSN:220248, DOI:10.1016/S0022-0248(02)01134-X, 220-230

*Цумура ce e:*

- 686.** Chunsheng, Wang, and Xu Yujian. "Solving Problems of Freezing and Blocking of Tail Gas Pipelines While Developing Oil Fields by Fire Flooding." *Chemistry and Technology of Fuels and Oils* 52.3 (2016): 346-352.
- 687.** Saethre, Bjorn Steen. "Interfacial free energy of the structure II cyclopentane hydrate in cyclopentane liquid from the capillary wave fluctuation method." *arXiv preprint arXiv:1601.04438* (2016).
- 688.** Melchuna, Aline Mendes. Experimental study and modeling of methane hydrates cristallization under flow from emulsions with variable fraction of water and anti-agglomerant. *Diss. Ecole Nationale Supérieure des Mines de Saint-Etienne*, 2016.
- 689.** Botimer, Jeffrey David. "Experimental Studies of the Growth Kinetics of Methane Clathrate Hydrates & Superfluid Hydrodynamics on the Nanoscale." (2016).
- 690.** Rasoolzadeh, Ali, et al. "Experimental study and modeling of methane hydrate formation induction time in the presence of ionic liquids." *Journal of Molecular Liquids* 221 (2016): 149-155.
- 691.** Meindinyo, Remi-Erempagamo Tariyemienyo, and Thor Martin Svartaas. "Gas Hydrate Growth Kinetics: A Parametric Study." *Energies* 9.12 (2016): 1021.
- 692.** Aman, Zachary M., et al. "Hydrate formation and deposition in a gas-dominant flowloop: Initial studies of the effect of velocity and subcooling." *Journal of Natural Gas Science and Engineering* 35(2016) 1490–1498
- 693.** Kelland, Malcolm A., and Wei Ke. "Kinetic Hydrate Inhibitor Studies for Gas Hydrate Systems– A Review of Experimental Equipment and Test Methods." *Energy & Fuels* 30 (2016) 10015–10028
- 694.** Sampaio, Tatiana P., Frederico W. Tavares, and Paulo LC Lage. "Non-isothermal population balance model for formation and dissociation of gas hydrates." *Chemical Engineering Science* (2016), doi.org/10.1016/j.ces.2016.12.012
- 695.** Yang, Lei, et al. "Synchrotron X-ray computed microtomography study on gas hydrate decomposition in a sedimentary matrix." *Geochemistry, Geophysics, Geosystems* 17.9 (2016): 3717-3732.
- 696.** van der Sman, Ruud. "Predicting of the solubility of mixtures of sugars and their replacers using Flory-Huggins." *Food & Function* (2016), DOI: 10.1039/C6FO01497F
- 697.** Max, Michael D., and Arthur H. Johnson. "Economic Characteristics of Deepwater Natural Gas Hydrate." *Exploration and Production of Oceanic Natural Gas Hydrate*. Springer International Publishing, 2016. 39-73.

- 698.** Maeda, Nobuo. "Nucleation curves of methane–propane mixed gas hydrates in hydrocarbon oil." *Chemical Engineering Science* 155 (2016): 1-9.
- 699.** Douïeb, Sélim, et al. "Effect of the fluid shear rate on the induction time of CO<sub>2</sub>-THF hydrate formation." *The Canadian Journal of Chemical Engineering* 95.1 (2017): 187-198.
- 700.** Maeda, Nobuo. "Nucleation curves of methane–propane mixed gas hydrates in the presence of a stainless steel wall." *Fluid Phase Equilibria* 413 (2016): 142-147.
- 701.** Palodkar, Avinash V., Subhasis Mandal, and Amiya K. Jana. "Modeling Growth Kinetics of Gas Hydrate in Porous Media: Experimental Validation." *Energy & Fuels* 30.9 (2016): 7656-7665.
- 702.** Mahmoudi, Badri, Parisa Naeiji, and Farshad Varaminian. "Study of tetra-n-butylammonium bromide and tetrahydrofuran hydrate formation kinetics as a cold storage material for air conditioning system." *Journal of Molecular Liquids* 214 (2016): 96-100.

**222. Exerowa, D.** Chain-melting phase transition and short-range molecular interactions in phospholipid foam bilayers. *Advances in Colloid and Interface Science*, 96, 3-Jan, 2002, ISSN:18686, DOI:10.1016/S0001-8686(01)00076-8, 75-100

Цумура се в:

**703.** Pentak, Danuta, In vitro spectroscopic study of piperine-encapsulated nanosize liposomes, *Eur.Biophys. J. Biophys.Letters*, 45 2 (2016) 175-186

**223. Valkova, T., Krastev, I.** Electrodeposition of silver-bismuth alloys from thiocyanate-tartrate electrolytes investigated by cyclic voltammetry. *Transactions of the Institute of Metal Finishing*, 80, 1, 2002, ISSN:202967, 21-24. ISI IF:0.852

Цумура се в:

**704.** Zemin He, Xiao Yuan, Qian Wang, Li Yu, Cheng Zou, Chenyue Li, Yuzhen Zhao, Baofeng He, Lanying Zhang, Haiquan Zhang and Huai Yang (2016). Multicolored Electrochromic Device from the Reversible Aggregation and Decentralization of Silver Nanoparticles. *Advanced Optical Materials*, 4(1), 106-111

**224. Nanev, CN.** Nucleation rate determination by a concentration pulse technique: application on ferritin crystals to show the effect of surface treatment of a substrate. 2002

Цумура се в:

**705.** Liszka, Barbara M., et al. "Calcium carbonate nucleation investigated in a Double Pulse experiment." *Crystal Growth & Design* 16.9 (2016): 4839-4845.

**225. Milchev, A.** The electrostatic persistence length of polymers beyond the OSF limit. 2002

Цумура се в:

**706.** Grebikova, L., Kozuharov, S., Maroni, P., Mikhaylov, A., Dietler, G., Schlöter, A.D., Ullner, M., Borkovec, M. The persistence length of adsorbed dendronized polymers (2016) *Nanoscale*, 8 (27), pp. 13498-13506. 10.1039/c6nr02665f

**707.** Stevens, M.J., Saleh, O.A. Simulations of stretching a flexible polyelectrolyte with varying charge separation (2016) *European Physical Journal: Special Topics*, 225 (8-9), pp. 1683-1692. 10.1140/epjst/e2016-60113-0

**708.** Malekzadeh Moghani, M., Khomami, B. Flexible polyelectrolyte chain in a strong electrolyte solution: Insight into equilibrium properties and force-extension behavior from mesoscale

simulation (2016) Journal of Chemical Physics, 144 (2), art. no. 024903, 10.1063/1.4939720

**709.** Baschnagel, J., Meyer, H., Wittmer, J., Kulic-G, I., Mohrbach, H., Ziebert, F., Nam, G.-M., Lee, N.-K., Johner, A. Semiflexible Chains at Surfaces: Worm-Like Chains and beyond (2016) Polymers, 8 (8), art. no. 286, Everaers, R.,

**226. Milchev, A.** Off-lattice Monte Carlo methods for coarse-grained models of polymeric materials and selected applications. 2002

Цумура се в:

**710.** DeVane, R.H., Wagner, M.S., Murch, B.P. The procter and gamble company: Current state and future needs in materials modeling (2016) Springer Series in Materials Science, 224, pp. 303-328. 10.1007/978-3-319-23419-9\_10

**711.** Dietschreit, J.C.B., Diestler, D.J., Knapp, E.W. Chemically Realistic Tetrahedral Lattice Models for Polymer Chains: Application to Polyethylene Oxide (2016) Journal of Chemical Theory and Computation, 12 (5), pp. 2388-2400. 10.1021/acs.jctc.6b00144

**712.** Zenak, S., Guenachi, A., Sabeur, S.A. Flexible star polymer chain adsorption by a flat surface: A molecular dynamics simulation (2016) Journal of Physics: Conference Series, 738 (1), art. no. 012014 10.1088/1742-6596/738/1/012014

---

## 2003

---

**227. Foam and wetting films: Electrostatic and steric stabilizati, Foam and wetting films: Electrostatic and steric stabilizati, Foam and wetting films: Electrostatic and steric stabilizati, Foam and wetting films: Electrostatic and steric stabilizati.** Foam and wetting films: Electrostatic and steric stabilization. Advances in Colloid and Interface Science, 104, 2003, 1-24

Цумура се в:

**713.** Del Castillo, L.A., Ohnishi, S., Carnie, S.L., Horn, R.G. Variation of Local Surface Properties of an Air Bubble in Water Caused by Its Interaction with Another Surface, Langmuir, 32 (30) (2016) 7671-7682.

**714.** Enesca, A., Baneto, M., Perniu, D., Isac, L., Bogatu, C., Duta, A., Solar-activated tandem thin films based on CuInS<sub>2</sub>, TiO<sub>2</sub> and SnO<sub>2</sub> in optimized wastewater treatment processes, Applied Catalysis B: Environmental 186 (2016) 69-76

**715.** Boinovich, L.B., Emelyanenko, A.M., Emelyanenko, K.A., Maslakov, K.I., Anti-icing properties of a superhydrophobic surface in a salt environment: An unexpected increase in freezing delay times for weak brine droplets, Physical Chemistry Chemical Physics 18(4) (2016)3131-3136

**228. Kashchiev, D., Firoozabadi, A.** Analytic solutions for 1D countercurrent imbibition in water-wet media. SPE Journal, 8, 4, 2003, ISSN:1086055X, 401-408

Цумура се в:

**716.** Nooruddin, Hasan A., and Martin J. Blunt. "Analytical and numerical investigations of spontaneous imbibition in porous media." Water Resources Research 52.9 (2016): 7284-7310.

**717.** Schmid, Karen S., et al. "Analytical Solutions for Spontaneous Imbibition: Fractional-Flow Theory and Experimental Analysis." SPE Journal (2016), doi.org/10.2118/184393-PA

**718.** Ghaedi, Mojtaba, and Masoud Riazi. "Scaling equation for counter current imbibition in the presence of gravity forces considering initial water saturation and SCAL properties." Journal of Natural Gas Science and Engineering 34 (2016): 934-947.

719. Patel, Kajal K., M. N. Mehta, and Twinkle R. Singh. "A homotopy series solution to a nonlinear partial differential equation arising from a mathematical model of the counter-current imbibition phenomenon in a heterogeneous porous medium." *European Journal of Mechanics-B/Fluids* 60 (2016): 119-126.
720. Li, Shuai, et al. "Solution for counter-current imbibition of 1D immiscible two-phase flow in tight oil reservoir." *Journal of Petroleum Exploration and Production Technology* (2016): 1-7, DOI: 10.1007/s13202-016-0273-3
721. Shuai, Li, et al. "Experiment and Modelling of Massive Fracturing Considering Drainage and Imbibition Process in Tight Oil Reservoirs." *International Petroleum Technology Conference*. International Petroleum Technology Conference, 2016.
722. Mohamadi-Baghmolaie, Mohamad, et al. "Numerical Investigation on the Applicability of Silica/Water Nanofluids in Porous Medium for EOR Enhancement.", 1st Biennial Conference on Persian Gulf Oil, Gas and Petrochemistry, (2016).
229. **Georgieva, J., Armyanov, S.** Factors affecting the electroless deposition of Ni-Cu-P coatings. *Journal of the Electrochemical Society*, 150, 11, 2003, ISSN:134651, DOI:10.1149/1.1612504, C760-C764
- Цумура се в:*
723. A. V. Kobets, T. N. Vorobyova, Palladium catalyst synthesis through sol-gel processing for electroless nickel deposition on glass, *Thin Solid Films*, 616, 793-799 (2016)
230. **Radeva, T., Milkova, V., Petkanchin, I.** Electro-optics of colloids coated with multilayers from strong polyelectrolytes:surface charge relaxation. *Journal of Colloid and Interface Science*, 266, 1, 2003, ISSN:219797, DOI:10.1016/S0021-9797(03)00533-2, 141-147
- Цумура се в:*
724. Tang, K., Besseling, N.A.M., Formation of polyelectrolyte multilayers: Ionic strengths and growth regimes, *Soft Matter* 12 (4), 1032-1040 (2016).
231. Ivanov, S., Mokreva, P., **Tsakova, V.**, Terlemezyan, L.. Electrochemical and surface structural characterization of chemically and electrochemically synthesized polyaniline coatings. *Thin Solid Films*, 441, 2-Jan, 2003, ISSN:406090, DOI:10.1016/S0040-6090(03)00880-0, 44-49
- Цумура се в:*
725. D. Liu, T-g. Tuo, Y-k.Liu, J-k. Zhou, Preparation and Properties of Poly-o-touifine Coatings Doped by Inorganic Acids, *Corrosion & Protection*, 37(2016) 16. DOI 10.11973/fsyfh-201601004
726. H. Jiyong, L. Guohao, S. Junhui, Y. Xudong, D. Xin, Improving the electromagnetic shielding of nickel/polyaniline coated polytrimethylene-terephthalate knitted fabric by optimizing the electroless plating conditions, *Textile, Res. J.* 2016, DOI: 10.1177/0040517516641361
727. M. Mobin, R. Alam, J. Aslam, Investigation of the Corrosion Behavior of Poly(Aniline-co-o-Anisidine)/ZnO Nanocomposite Coating on Low-Carbon Steel, *J. Materials Eng. Performance*, 25 (2016) 3017 – 3030
728. P. Arnnok, N. Patdhanagul, R. Burakham, Dispersive solid-phase extraction using polyaniline-modified zeolite NaY as a new sorbent for multiresidue analysis of pesticides in food and environmental samples, *Talanta* (2016) DOI: 10.1016/j.talanta.2016.11.003
232. **Kashchiev, D., Van Rosmalen, G.M.** Review: Nucleation in solutions revisited. *Crystal Research and Technology*, 38, 8-Jul, 2003, ISSN:2321300, 555-574

729. Sosso, Gabriele C., et al. "Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations." *Chem. Rev.*, 116 (12)( 2016) 7078–7116
730. Crutchik, D., and J. M. Garrido. "Kinetics of the reversible reaction of struvite crystallisation." *Chemosphere* 154 (2016): 567-572.
731. Schreiber, Roy E., et al. "Real-time molecular scale observation of crystal formation." *Nature Chemistry* (2016), doi:10.1038/nchem.2675
732. Parikh, Tapan, et al. "Characterization of Solid Dispersion of Itraconazole Prepared by Solubilization in Concentrated Aqueous Solutions of Weak Organic Acids and Drying." *Pharmaceutical research* 33.6 (2016): 1456-1471.
733. Poornachary, Sendhil K., et al. "Crystallizing Micronized Particles of a Poorly Water-Soluble Active Pharmaceutical Ingredient: Nucleation Enhancement by Polymeric Additives." *Crystal Growth & Design* 16.2 (2016): 749-758.
734. Poonoosamy, J., et al. "Barite precipitation following celestite dissolution in a porous medium: A SEM/BSE and  $\mu$ -XRD/XRF study." *Geochimica et Cosmochimica Acta* 182 (2016): 131-144.
735. Krishnan, Kannan M., R. Matthew Ferguson, and Amit Praful Khandhar. "Tuned multifunctional magnetic nanoparticles for biomedicine." U.S. Patent No. 9, 259, 492. 16 Feb. 2016.
736. Chang, S-Y., et al. "Detection and characterisation of sub-critical nuclei during reactive Pd metal nucleation by X-ray absorption spectroscopy." *CrystEngComm* 18.5 (2016): 674-682.
737. Kim, Jinsoo, et al. "Dissolution and ionization of sodium superoxide in sodium-oxygen batteries." *Nature communications* 7 (2016), doi:10.1038/ncomms10670
738. Lu, Dapeng, et al. "Simultaneous recovery and crystallization control of saline organic wastewater by membrane distillation crystallization." *AIChE Journal* (2016), DOI: 10.1002/aic.15581
739. Kügler, Ricco T., Katharina Beißert, and Matthias Kind. "On heterogeneous nucleation during the precipitation of barium sulfate." *Chemical Engineering Research and Design* 114 (2016): 30-38.
740. Prieto, Manuel, et al. "Crystallization behavior of solid solutions from aqueous solutions: An environmental perspective." *Progress in Crystal Growth and Characterization of Materials* 62.3 (2016): 29-68.
741. McLeod, J. S., et al. "The effect of agitation on the nucleation of  $\alpha$ -lactose monohydrate." *International Dairy Journal* 61 (2016) 114–119
742. Dorosz, Sven, Thomas Voigtmann, and Tanja Schilling. "Dissipation by a crystallization process." *EPL (Europhysics Letters)* 113.1 (2016): 10004.
743. Stillhart, Cordula, and Martin Kuentz. "Trends in the Assessment of Drug Supersaturation and Precipitation In Vitro Using Lipid-Based Delivery Systems." *Journal of pharmaceutical sciences* 105 (9) (2016) 2468–2476
744. Xu, Shijie, et al. "Nucleation behavior of eszopiclone-butyl acetate solutions from metastable zone widths." *Chemical Engineering Science* 155 (2016): 248-257.
745. Shaffer, K. R., et al. "Nucleation of lactose using continuous orifice flow." *International Dairy Journal* 61 (2016) 148–154
746. Bjørnøy, Sindre H., et al. "Controlled mineralisation and recrystallisation of brushite within alginate hydrogels." *Biomedical Materials* 11.1 (2016): 015013.

747. Farmer, Thomas C., Corinne L. Carpenter, and Michael F. Doherty. "Polymorph Selection by Continuous Crystallization." *AIChE Journal* (2016) DOI: 10.1002/aic.15343
748. Jiao, Bo, et al. "A facile one-step solution deposition via non-solvent/solvent mixture for efficient organometal halide perovskite light-emitting diodes." *Nanoscale* 8.21 (2016): 11084-11090.
749. Bachchhav, Shital D., Sandip Roy, and Mamata Mukhopadhyay. "Parametric analysis of homogeneous and heterogeneous nucleation in subcritical CO<sub>2</sub>-mediated antisolvent crystallization." *Chemical Engineering Research and Design* 106 (2016): 283-297.
750. Jiang, Xiaobin, et al. "Membrane assisted cooling crystallization: Process model, nucleation, metastable zone, and crystal size distribution." *AIChE Journal* 62.3 (2016): 829-841.
751. Qureshi, T. S., A. Kanellopoulos, and A. Al-Tabbaa. "Encapsulation of expansive powder minerals within a concentric glass capsule system for self-healing concrete." *Construction and Building Materials* 121 (2016): 629-643.
752. Wang, Xiumei, et al. "Influence of Sequence Structure of Polycarboxylate Superplasticizers on Early Age Properties of Cement Paste." *Journal of Materials in Civil Engineering* (2016): 04016112.
753. Lopez-Quiroga, E., et al. "Crystallisation in concentrated systems: A modelling approach." *Food and Bioproducts Processing* 100 (2016): 525-534.
754. Hamdi, Raghda, and Mohamed Mouldi Tlili. "Conductometric study of calcium carbonate prenucleation stage: underlining the role of CaCO<sub>3</sub> ion pairs." *Crystal Research and Technology* 51.1 (2016): 99-109.
755. Shiau, Lie-Ding. "Comparison of the interfacial energy and pre-exponential factor calculated from the induction time and metastable zone width data based on classical nucleation theory." *Journal of Crystal Growth* 450 (2016): 50-55.
756. Lu, Enxian, Shoufeng Li, and Zhongqin Wang. "Biorelevant Test for Supersaturable Formulation." *Asian Journal of Pharmaceutical Sciences* (2016), doi.org/10.1016/j.ajps.2016.10.002
757. Tahri, Yousra. *Vers une meilleure compréhension de la cristallisation en solution de polymorphes: étude expérimentale et modélisation par bilan de population et par équations cinétiques*. Diss. Université de Lyon, 2016.
233. Avramov, I., Rüssel, C., Keding, R.. Effect of chemical composition on viscosity of oxide glasses. *Journal of Non-Crystalline Solids*, 324, 2-Jan, 2003, ISSN:223093, DOI:10.1016/S0022-3093(03)00230-8, 29-35

Цитирана се е:

758. H Jabraoui, EM Achhal, A Hasnaoui, JL Garden, Y. Vaills, S. Ouaskit, *Journal of Non-Crystalline*, 448 ( 2016) 16-26
759. Jabraoui, EM Achhal, A Hasnaoui, JL Garden, Y. Vaills, S. Ouaskit, *Journal of Non-Crystalline*, 448 ( 2016) 16-26
760. Guixuan Wu, Sören Seebold, Elena Zayhenskikh, Klaus Hack, and Michael Müller in Edited by: Ramana G. Reddy, Pinakin Chaubal, P. Chris Pistorius, and Uday Pal TMS (The Minerals, Metals & Materials Society), 20 (2016)
761. Guo, X., Smedskjaer, M.M., Mauro, J.C., *Journal of Physical Chemistry B*, 120 ( 12 ) 2016 pp. 3226 - 3231 .
762. Erhan KILINC, Thesis, The University of Sheffield 2016



763. Leśniak, M., Partyka, J., Gajek, M., Pasiut, K., Sitarz, M., *Materiały Ceramiczne* 2016 | T. 68, nr 3 | 242--245

764. Xingyu Fan, Hongjie Wang, Min Niu, Jianjun Shi, *J.Ceramint*.2016.06.114, DOI: 10.1016/

234. **Boshkov, N.** "Galvanic Zn-Mn alloys - electrodeposition, phase composition, corrosion behaviour and protective ability". *Surface and Coatings Technology*, 172, 3-Feb, 2003, ISSN:2578972, DOI:10.1016/S0257-8972(03)00463-8, 217-226

*Цумупа се в:*

765. Touazi, S., Bucko, M., Makhloufi, L., Legat, A., Bajat, J.B., "The electrochemical behavior of Zn-Mn alloy coating in carbonated concrete solution", (2016), *Surface Review and Letters*, 23, (4), art. no. 1650030.

766. Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., "Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings from acidic chloride electrolyte containing 4-hydroxybenzaldehyde and ammonium thiocyanate", (2016), *Surface and Coatings Technology*, 298, 73-82.

767. Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., "Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings", (2016), MA2016-01, 229-th ECS Meeting, San Diego, CA, Meeting Abstract.

768. Guo, J., Guo, X., Wang, S., Zhang, Z., Dong, J., Peng, L., Ding, W., "Effects of glycine and current density on the mechanism of electrodeposition, composition and properties of Ni-Mn films prepared in ionic liquid", (2016), *Applied Surface Science*, 365, 31-37.

769. Li, Q., Lu, H., Cui, J., An, M., Li, D., "Understanding the low corrosion potential and high corrosion resistance of nano-zinc electrodeposit based on electron work function and interfacial potential difference", (2016), *RSC Advances*, 6, (100), 97606-97612

770. Tsakova, V., "The bulgarian physicochemical tradition and the Institute of Physical Chemistry "Academician Rostislav Kaischew", (2016), *Chemistry*, 25, (1), 35-67.

771. Liu, S., Zhao, X., Zhao, H. et al., "Corrosion performance of zinc coated steel in seawater environment", (2016), *Chinese Journal of Oceanology and Limnology*, doi:10.1007/s00343-016-5269-9.

772. Abou-Krishna, M.M., Assaf, F.H., Alduaij, O.K. et al., "Deposition Potential Influence on the Electrodeposition of Zn-Ni-Mn Alloy", (2016), *Transactions of the Indian Institute of Metals*, doi:10.1007/s12666-016-0859-y.

235. Ter Horst, J.H., **Kashchiev, D.** Determination of the nucleus size from the growth probability of clusters. *Journal of Chemical Physics*, 119, 4, 2003, ISSN:219606, DOI:10.1063/1.1585020, 2241-2246

*Цумупа се в:*

773. Sosso, Gabriele C., et al. "Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations." *Chemical reviews* 116 (12) (2016)7078–7116

774. Yang, Huaiyu, and Joop H. ter Horst. "Crystal nucleation of small organic molecules." *New Perspectives on Mineral Nucleation and Growth*. Springer International Publishing, 2017. 317-337.

236. **Avramov, I.** Relativity and temperature. *Russian Journal of Physical Chemistry A*, 77, SUPPL. 1, 2003, ISSN:360244, S179-S182

*Цумупа се в:*

775. Shu-Nan Li (李书楠), Bing-Yang Cao (曹炳阳) Applied Mathematical Modelling 40 ( 9-10 ) pp. 5532 - 5541 doi:10.1016/j.apm.2016.01.007
776. BV Budaev, A Ghafari, DB Bogy - J. Appl. Phys. 119, 144501 (2016); <http://dx.doi.org/10.1063/1.4945575>
237. Exerowa, D., Churaev, N.V., Kolarov, T., Esipova, N.E., Panchev, N., Zorin, Z.M.. Foam and wetting films: Electrostatic and steric stabilization. Advances in Colloid and Interface Science, 104, 3-Jan, 2003, ISSN:18686, DOI:10.1016/S0001-8686(03)00033-2, 1-24

Цумура се е:

777. Youjie Sheng, Xiujuan Wu, Shouxiang Lu, Experimental Study on Foam Properties of Mixed Systems of Silicone and Hydrocarbon Surfactants, J. Surfactants and Detergents, 05/2016; DOI:10.1007/s11743-016-1822-y
778. Boinovich, Ludmila B.; Emelyanenko, Alexandre M.; Emelyanenko, Kirill A.; et al. Anti-icing properties of a superhydrophobic surface in a salt environment: an unexpected increase in freezing delay times for weak brine droplets, Phys.Chem. Chem.Phys., 18 4 (2016) 3131-3136
779. Enesca, Alexandru; Baneto, Mazabalo; Perniv, Dana; et al., Solar-activated tandem thin films based on CuInS<sub>2</sub>, TiO<sub>2</sub> and SnO<sub>2</sub> in optimized wastewater treatment processes, Appl.Catalysis B-Environmental, 186 (2016) 69-76
780. Sheng, Youjie; Wu, Xiujuan; Lu, Shouxiang; et al., Experimental Study on Foam Properties of Mixed Systems of Silicone and Hydrocarbon Surfactants, J. Surfactants&Detergents, 19 4 (2016) 823-831
781. Del Castillo, Lorena A.; Ohnishi, Satomi; Carnie, Steven L.; et al., Variation of Local Surface Properties of an Air Bubble in Water Caused by Its Interaction with Another Surface, Langmuir, 32 30 (2016) 7671-7682
238. Avramov, I., Zanotto, E.D., Prado, M.O.. Glass-forming ability versus stability of silicate glasses. II. Theoretical demonstration. Journal of Non-Crystalline Solids, 320, 3-Jan, 2003, ISSN:223093, DOI:10.1016/S0022-3093(03)00081-4, 9-20

Цумура се е:

782. M. Reben, El Sayed Yousef, I. Grelowska, M. Kosmal, M. Szumera, Journal of Thermal Analysis and Calorimetry 125 (3):1279-1286
783. Blaabjerg, L.I., Lindenberg, E., Löbmann, K., Grohganz, H., Rades, T., Molecular Pharmaceutics, 13 ( 9 ) (2016) pp. 3318 - 3325 .
784. Svoboda, R., Málek, J., Journal of Alloys and Compounds, 670 (2016) pp. 222 - 228
785. Dahiya, M.S., Khasa, S., Agarwal, A., Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B, 57 ( 2 ) pp. 45 - 52
786. A. Wagh, V. C. Petwal, Vijay Pal Verma, J/ Dwivedi, Y. Raviprakash, S. D. Kamat, J Therm Anal Calorim, DOI 10.1007/s10973-015-5220-x
787. Svoboda, R; Malek, J, JOURNAL OF ALLOYS AND COMPOUNDS, 670 222-228; 10.1016/j.jallcom.2016.02.052 JUN 15 2016
788. Bernardes, Giordano Pierozan, Dissertation, Porto Alegre 2016
239. Stromberg, C., Tsakova, V., Schultze, J.W.. Composition of the microemulsion and its influence on the polymerisation and redox activation of PEDOT. Journal of Electroanalytical Chemistry, 547, 2, 2003,

Цумура се в:

- 789.** O.L. Gribkova, O.D. Iakobson, A.A. Nekrasov, V.A. Cabanova, V.A. Tsverskoy, A.V. Vannikov, J. Solid State Electrochem., 20 (2016) 2991-3001.
- 790.** V.T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016.
- 240. Kashchiev, D.,** Firoozabadi, A.. Induction time in crystallization of gas hydrates. Journal of Crystal Growth, 250, 4-Mar, 2003, ISSN:220248, DOI:10.1016/S0022-0248(02)02461-2, 499-515

Цумура се в:

- 791.** Kamal, Muhammad Shahzad, et al. "Application of various water soluble polymers in gas hydrate inhibition." Renewable and Sustainable Energy Reviews 60 (2016): 206-225.
- 792.** Foo, Chien Wern, Linxi Ruan, and Xia Lou. "The inhibition performance in relation to the adsorption of a polymeric kinetic inhibitor towards THF hydrates in the presence of methanol, ethanol and monoethylene glycol." Journal of Natural Gas Science and Engineering, 35, B, (2016) 587–1593
- 793.** Carpenter, Katherine, and Vaibhav Bahadur. "Electronucleation for Rapid and Controlled Formation of Hydrates." The journal of physical chemistry letters 7.13 (2016): 2465-2469.
- 794.** Shen, Xiao-Dong, et al. "Experimental study on the kinetic effect of N-butyl-N-methylpyrrolidinium bromide on CO<sub>2</sub> hydrate." Journal of Molecular Liquids 223 (2016): 672-677.
- 795.** Wu, Linhe, et al. "Effects of Ultrasonic Parameters on the Crystallization Behavior of Virgin Coconut Oil." Journal of Oleo Science 65.12 (2016): 967-976.
- 796.** Turner, T. D., et al. "The influence of solution environment on the nucleation kinetics and crystallisability of para-aminobenzoic acid." Physical Chemistry Chemical Physics 18.39 (2016): 27507-27520.
- 797.** Meindinyo, Remi-Erempagamo Tariyemienyo, and Thor Martin Svartaas. "Gas Hydrate Growth Kinetics: A Parametric Study." Energies 9.12 (2016): 1021.
- 798.** Yan, Ke-Feng, et al. "Molecular Dynamics Simulation of the Crystal Nucleation and Growth Behavior of Methane Hydrate in the Presence of the Surface and Nanopores of Porous Sediment." Langmuir 32.31 (2016): 7975-7984.
- 799.** Sampaio, Tatiana P., Frederico W. Tavares, and Paulo LC Lage. "Non-isothermal population balance model for formation and dissociation of gas hydrates." Chemical Engineering Science (2016), doi.org/10.1016/j.ces.2016.12.012
- 800.** Arora, Amit, et al. "Biosurfactant as a Promoter of Methane Hydrate Formation: Thermodynamic and Kinetic Studies." Scientific reports 6 (2016) 20893.
- 801.** Uchida, Tsutomu, Kenji Yamazaki, and Kazutoshi Gohara. "Gas Nanobubbles as Nucleation Acceleration in the Gas-Hydrate Memory Effect." The Journal of Physical Chemistry C 120.47 (2016): 26620-26629.
- 802.** Shin, Juyoung, Songlee Han, and Seong-Pil Kang. "Investigation of xenon and natural gas hydrate as a storage medium to maintain the enzymatic activity of the model proteins." Korean Journal of Chemical Engineering 33.4 (2016): 1345-1351.
- 803.** Stoporev, Andrey S., et al. "Nucleation of methane hydrate in water-in-oil emulsions: role of the

phase boundary." *Energy & Fuels* 30.5 (2016): 3735-3741.

- 804.** Maeda, Nobuo. "Nucleation curves of methane–propane mixed gas hydrates in hydrocarbon oil." *Chemical Engineering Science* 155 (2016): 1-9.
- 805.** Wang, Shanrong, et al. "Investigation on the induction time of methane hydrate formation in porous media under quiescent conditions." *Journal of Petroleum Science and Engineering* 145 (2016) 565–572
- 806.** Douïeb, Sélim, et al. "Effect of the fluid shear rate on the induction time of CO<sub>2</sub>-THF hydrate formation." *The Canadian Journal of Chemical Engineering* 95.1 (2017): 187-198.
- 807.** Maeda, Nobuo. "Nucleation curves of methane–propane mixed gas hydrates in the presence of a stainless steel wall." *Fluid Phase Equilibria* 413 (2016): 142-147.
- 808.** Kakati, Himangshu, Ajay Mandal, and Sukumar Laik. "Synergistic effect of Polyvinylpyrrolidone (PVP) and L-tyrosine on kinetic inhibition of CH<sub>4</sub> + C<sub>2</sub>H<sub>6</sub> + C<sub>3</sub>H<sub>8</sub> hydrate formation." *Journal of Natural Gas Science and Engineering* 34 (2016): 1361-1368.
- 809.** Kumar, Asheesh, et al. "Crystallization kinetics for carbon dioxide gas hydrate in fixed bed and stirred tank reactor." *Korean Journal of Chemical Engineering* 33.6 (2016): 1922-1930.
- 810.** Saikia, Tinku, and Vikas Mahto. "Evaluation of 1-Decyl-3-Methylimidazolium Tetrafluoroborate as clathrate hydrate crystal inhibitor in drilling fluid." *Journal of Natural Gas Science and Engineering* 36 (2016): 906-915.
- 811.** Saethre, Bjorn Steen. "Interfacial free energy of the structure II cyclopentane hydrate in cyclopentane liquid from the capillary wave fluctuation method." arXiv preprint arXiv:1601.04438 (2016).
- 812.** Cortés Martín, Irene. "Raman Spectroscopic Analysis of CO<sub>2</sub>-Water Mixtures Containing Kinetic Hydrate Inhibitors." (2016), URI: <http://uvadoc.uva.es/handle/10324/19674>
- 241.** Celli, A., Zanotto, E.D., **Avramov, I.** Primary crystal nucleation and growth regime transition in isotactic polypropylene. *Journal of Macromolecular Science - Physics*, 42 B, 2, 2003, ISSN:222348, DOI:10.1081/MB-120017126, 387-401

Цумура се в:

- 813.** Wang, J., Yang, M., Lu, Y., Jin, Z., Tan, L., Gao, H., Fan, S., Dong, W., Wang, G., *Nano Energy*, 19 (2016) pp. 78 - 87
- 814.** Dietz, W, *POLYMER ENGINEERING AND SCIENCE*, 56 (11):1291-1302; 10.1002/pen.24364 NOV 2016
- 815.** Mani, M.R., Chellaswamy, R., Marathe, Y.N., Pillai, V.K., *Macromolecules*, 49 ( 6 ) 2016 pp. 2197 – 2205
- 242.** **Kashchiev, D.** Thermodynamically consistent description of the work to form a nucleus of any size. *Journal of Chemical Physics*, 118, 4, 2003, ISSN:219606, DOI:10.1063/1.1531614, 1837-1851

Цумура се в:

- 816.** Vekilov, Peter G. "Nucleation of protein crystals." *Progress in Crystal Growth and Characterization of Materials* 62 (2016) 136–154
- 817.** De Yoreo, Jim, and Stephen Whitlam. "Nucleation in atomic, molecular, and colloidal systems." *MRS Bulletin* 41.05 (2016): 357-360.
- 818.** Rimer, Jeffrey D., and Michael Tsapatsis. "Nucleation of open framework materials: Navigating the voids." *MRS Bulletin* 41.05 (2016): 393-398.

- 819.** Preuss, Oliver, et al. "Special Collection: Rates and Depths of Magma Ascent on Earth: Degassing of Hydrous Trachytic Campi Flegrei and Phonolitic Vesuvius Melts: Experimental Limitations and Chances to Study Homogeneous Bubble Nucleation." *American Mineralogist* 101.4 (2016): 859-875.
- 820.** De Yoreo, James J. "In-situ liquid phase TEM observations of nucleation and growth processes." *Progress in Crystal Growth and Characterization of Materials* 62.2 (2016): 69-88.
- 821.** Bruot, Nicolas, and Frédéric Caupin. "Curvature Dependence of the Liquid-Vapor Surface Tension beyond the Tolman Approximation." *Physical review letters* 116.5 (2016): 056102.
- 822.** Preuss, Oliver, et al. "Degassing of hydrous trachytic Campi Flegrei and phonolitic Vesuvius melts: Experimental limitations and chances to study homogeneous bubble nucleation." *American Mineralogist* 101.4 (2016): 859-875.
- 823.** Velegol, Darrell, et al. "Origins of concentration gradients for diffusiophoresis." *Soft matter* 12.21 (2016): 4686-4703.
- 824.** Haqshenas, S. R., I. J. Ford, and N. Saffari. "Modelling the effect of acoustic waves on nucleation." *The Journal of Chemical Physics* 145.2 (2016): 024315.
- 825.** Mondal, Shrabani, et al. "Rate laws of the self-induced aggregation kinetics of Brownian particles." *Physica A: Statistical Mechanics and its Applications* 445 (2016): 128-137.
- 826.** Umantsev, A. "Lifetime of metastable states in a Ginzburg-Landau system: Numerical simulations at large driving forces." *Physical Review E* 93.4 (2016): 042806.
- 827.** Sheikhi, Amir, et al. "Macromolecule-based platforms for developing tailor-made formulations for scale inhibition." *Environmental Science: Water Research & Technology* 2.1 (2016): 71-84.
- 828.** Alekseechkin, Nikolay V. "Surface effects in nucleation." arXiv preprint arXiv:1611.03140 (2016).
- 829.** Wilms, Henrike. *Microphysics of ice particles in the polar summer mesosphere*. Diss. lmu, 2016.
- 243. Stoychev, D.,** Valov, I., Stefanov, P., Atanasova, G., Stoycheva, M., Marinova, Ts.. Electrochemical growth of thin La<sub>2</sub>O<sub>3</sub> films on oxide and metal surfaces. *Materials Science and Engineering C*, 23, 1-2, Elsevier, 2003, ISSN:9284931, DOI:10.1016/S0928-4931(02)00261-8, 123-128. SJR:0.672, ISI IF:3.088
- Цитирани са:*
- 830.** V.Tsakova, *Chemistry*, 25 (1) (2016), p 35-67
- 831.** O.H.Loguna, M.I.Domongez, M.A.Conteno, J.A.Odizola, *Catalysts on Metallic Surfaces:Monoliths and Microreactors*, Chapter 4, In "New materials for Catalytic Applications", Eds. V.Parvulescu, E.Kemnitz, Elsevier 2016
- 832.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 833.** A.P.I. Popoolaa, V.S. Aigbodiona, b., O.S.I. Fayomia, Anti-corrosion coating of mild steel using ternary Zn-ZnO-Y<sub>2</sub>O<sub>3</sub> electro-depositon, *Surface and Coatings Technology*, Available online 9 May 2016 In Press, Corrected Proof, Received 19 December 2015, Revised 5 May 2016, Accepted 7 May 2016, Available online 9 May 2016, doi:10.1016/j.surfcoat.2016.05.018 *Surface and Coatings Technology* Volume 306, Part B, 25 November 2016, Pages 448–454 *Developments in Galvanic and Related Coatings*
- 244.** Schmelzer, J.W.P., M?ller, R., M?ller, J., **Gutzow, I.S.** Theory of nucleation in viscoelastic media: Application to phase formation in glassforming melts. *Journal of Non-Crystalline Solids*, 315, 2-Jan,

Цумупа се в:

- 834.** Gupta, Prabhat K., Daniel R. Cassar, and Edgar D. Zanotto. "Role of dynamic heterogeneities in crystal nucleation kinetics in an oxide supercooled liquid." *The Journal of Chemical Physics* 145.21 (2016): 211920.
- 835.** Savytskii, D., et al. "Laser-induced growth of oriented Sb<sub>2</sub>S<sub>3</sub> single crystal dots on the surface of 82SbSI–18Sb<sub>2</sub>S<sub>3</sub> glasses." *Journal of Non-Crystalline Solids* 431 (2016): 36-40.
- 245. Mirkova, L., Maurin, G., Monev, M., Tsvetkova, Chr.** Hydrogen coevolution and permeation in nickel electroplating. *Journal of Applied Electrochemistry*, 33, 1, Kluwer Academic Publisher, 2003, ISSN:0021-891X, DOI:10.1023/A:1022957600970, 93-100. SJR:0.676, ISI IF:2.28

Цумупа се в:

- 836.** Metsue, A. Oudriss, X. Feaugas Hydrogen solubility and vacancy concentration in nickel single crystals at thermal equilibrium: new insights from statistical mechanics and ab initio calculations *Journal of Alloys and Compounds*, 656 (2016) 555-567
- 837.** Qiang Huang, Kathleen B. Reuter, Yu Zhu, Vaughn R. Deline A Study on the Long-Term Degradation of Crystalline Silicon Solar Cells Metallized with Cu Electroplating *ECS Journal of Solid State Science and Technology*, 5(2) (2016) Q24-Q34
- 838.** E. P. S. Schmitz, S. P. Quinaia, J. R. Garcia, C. K. de Andrade, M. C. Lopes Influence of Commercial Organic Additives on the Nickel Electroplating *Int. J. Electrochem. Sci.*, 11 (2016) 983-997
- 839.** Ho Kuen Lau, Natalie Yip, Shun Hua Chen, K.C. Chan Deformation behaviour of amorphous Fe-Ni-W/Ni bilayer-confined bulk metallic glasses *Materiali in Tehnologije* 50(2) (2016) 217-222
- 246. Milchev, A.** Interface localization-delocalization in a double wedge: A new universality class with strong fluctuations and anisotropic scaling. 2003

Цумупа се в:

- 840.** Malijevsky, A., Parry, A.O. Influence of intermolecular forces at critical-point wedge filling (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (4), art. no. 040801, 10.1103/PhysRevE.93.040801
- 247. Milchev, A., Heerman, L.** Electrochemical nucleation and growth of nano- and microparticles: Some theoretical and experimental aspects. *Electrochimica Acta*, 48, 20-22, 2003, ISSN:0013-4686, DOI:10.1016/S0013-4686(03)00355-4, 2903-2913. SJR:1.391

Цумупа се в:

- 841.** Mukhtar, A., Shahzad Khan, B., Mehmood, T., Appropriate deposition parameters for formation of fcc Co–Ni alloy nanowires during electrochemical deposition process, *Applied Physics A: Materials Science and Processing*, 122 (12) (2016) 1022.
- 842.** Karabozhikova, V., Tsakova, V., Role of the doping ions for the electrocrystallization of silver on poly(3, 4-ethylenedioxythiophene)-modified electrodes, *Electrochimica Acta*, 217( 2016) 218-225.
- 843.** Mukhtar, A., Mehmood, T., Khan, B.S., Tan, M., Effect of Co<sup>2+</sup> concentration on the crystal structure of electrodeposited Co nanowires, *Journal of Crystal Growth*, 441 (2016) 26-32.

- 844.** Mamme, M.H., Mernissi Cherigui, E.A., Dolgikh, O., (...), Terryn, H., Deconinck, J., A Finite Element Simulation of the Electrochemical Growth of a Single Hemispherical Silver Nucleus, *Electrochimica Acta*, 197(2016) 307-317.
- 845.** Ustarroz, J., Hubin, A., Terryn, H., New insights in nanoelectrodeposition: An electrochemical aggregative growth mechanism, (2016) *Handbook of Nanoelectrochemistry: Electrochemical Synthesis Methods, Properties, and Characterization Techniques*, pp. 1349-1378.
- 248. Ivan Markov.** *Crystal growth for beginners: fundamentals of nucleation, crystal growth and epitaxy.* World Scientific, 2003, ISBN:981-238-245-3

Цумура се в:

- 846.** Zhang, Kejun, et al. "Vertical La<sub>0.7</sub>Ca<sub>0.3</sub>MnO<sub>3</sub> nanorods tailored by high magnetic field assisted pulsed laser deposition." *Scientific reports* 6 (2016), . doi: 10.1038/srep19483
- 847.** Jokubavicius, Valdas, et al. "Surface engineering of SiC via sublimation etching." *Applied Surface Science* 390 (2016): 816-822.
- 848.** Niinomi, H., et al. "Enantioselective amplification on circularly polarized laser-induced chiral nucleation from a NaClO<sub>3</sub> solution containing Ag nanoparticles." *CrystEngComm* 18.39 (2016): 7441-7448.
- 849.** Shi, J. Q., et al. "On the tungsten single crystal coatings achieved by chemical vapor transportation deposition." *Materials Characterization* 122 (2016): 36-44.
- 850.** Ferreira, Cecília, et al. "The Finding of Nondissolving Lysozyme Crystals and Its Significance for the Study of Hard-to-Crystallize Biological Macromolecules." *Crystal Growth & Design* 16.8 (2016): 4285-4291.
- 851.** Jia, Fei, Di Zhao, and Mu Wang. "Selective nucleation and self-organized crystallization." *Progress in Crystal Growth and Characterization of Materials* 62.2 (2016): 252-272.
- 852.** Kolář, Miroslav, Michal Beneš, and Daniel Ševčovič. "Numerical Solution of Constrained Curvature Flow for Closed Planar Curves." *Numerical Mathematics and Advanced Applications ENUMATH 2015.* Springer International Publishing, 2016.
- 853.** Durand, Brieux. *Conception et réalisation d'une nouvelle génération de nano-capteurs de gaz à base de nanofils semiconducteurs.* Diss. UPS Toulouse-Université Toulouse 3 Paul Sabatier, 2016.
- 854.** Abdel-Karim, R. "Electrochemical Fabrication of Nanostructures." *Handbook of Nanoelectrochemistry: Electrochemical Synthesis Methods, Properties, and Characterization Techniques* (2016): 23-46.
- 855.** Boldyrevskii, P. B., et al. "Initial stages of gallium arsenide metalorganic vapor phase epitaxy." *Inorganic Materials* 52.10 (2016): 985-989.
- 856.** Andrieu, S., P. Turban, and B. Kierren. "Self-organized homo-epitaxial growth of (001) vanadium assisted by oxygen surface reconstruction." *Surface Science* 651 (2016): 154-163.
- 857.** Bushmelev, Alexey. *Synthesis of Anisotropic Magnetic Nanoobjects Designed for Locomotion in External Magnetic Fields.* Diss. Universität zu Köln, 2016.
- 858.** Johansson, Jonas. "Stochastic analysis of nucleation rates." *Physical Review E* 93.2 (2016): 022801.
- 859.** Oyediran, Oyelami Benjamin. "Models for Computing Effect of Pollutants on the Lower Respiratory Tract." *American Journal of Modeling and Optimization* 4.2 (2016): 40-50.
- 860.** O'Brien, Matthew N., et al. "Programming Colloidal Crystal Habit with Anisotropic

- Nanoparticle Building Blocks and DNA Bonds." *Journal of the American Chemical Society* 138.44 (2016): 14562-14565.
- 861.** Li, Yuan, Xuejiang Chen, and Juan Su. "Study on formation of step bunching on 6H-SiC (0001) surface by kinetic Monte Carlo method." *Applied Surface Science* 371 (2016): 242-247.
- 862.** Ntuk, Ubong Ubong. "Crystallization of AlF<sub>2</sub>OH. H<sub>2</sub>O, for application in the recycle of fluoride from Spent Pot Lining (SPL)." (2016).
- 863.** Kolář, Miroslav, Michal Beneš, and Daniel Ševčovič. "Computational analysis of the conserved curvature driven flow for open curves in the plane." *Mathematics and Computers in Simulation* 126 (2016): 1-13.
- 864.** Conti, Patrick Pires, Eupídio Scopel, and Cleocir José Dalmaschio. "ALTERAÇÕES MORFOLÓGICAS EM NANOCRISTAIS DE ÓXIDO DE TITÂNIO PURO E DOPADO COM CÉRIO OBTIDOS EM PROCESSO SOLVOTÉRMICO." *Brazilian Journal of Production Engineering-BJPE* 2.2 (2016): 66-76.
- 865.** Shim, Hong-Min, and Kee-Kahb Koo. "Molecular Approach to the Effect of Interfacial Energy on Growth Habit of  $\epsilon$ -HfNiW." *Crystal Growth & Design* 16.11 (2016): 6506-6513.
- 866.** Hoffmann, Frank. "Kristallformen und Bravais-Gitter." *Faszination Kristalle und Symmetrie*. Springer Fachmedien Wiesbaden, 2016. 33-91.
- 867.** Schmelzer, Jörn WP, and Alexander S. Abyzov. "Crystallization of glass-forming liquids: Thermodynamic driving force." *Journal of Non-Crystalline Solids* 449 (2016): 41-49.
- 868.** Tian, Zhen, et al. "2D SnS: a phosphorene analogue with strong in-plane electronic anisotropy." *arXiv preprint arXiv:1612.08896* (2016).
- 869.** Mahapatra, A. K., et al. "Mechanism of phase transition, from vapor to solid: Transient liquid phase is between the two." *EPL (Europhysics Letters)* 115.3 (2016): 36003.
- 870.** Niinomi, Hiromasa, et al. "Plasmonic Heating-Assisted Laser-Induced Crystallization from a NaClO<sub>3</sub> Unsaturated Mother Solution." *Crystal Growth & Design* (2016), DOI: 10.1021/acs.cgd.6b01657
- 871.** Kimura, Taishi, et al. "Nanopipe formation as a result of boron impurity segregation in gallium nitride grown by halogen-free vapor phase epitaxy." *Journal of Applied Physics* 120.24 (2016): 245703.
- 872.** Mortuza, S. M., M. F. N. Taufique, and Soumik Banerjee. "Solution processed deposition of electron transport layers on perovskite crystal surface—A modeling based study." *Applied Surface Science* 394 (2017): 488-497.
- 873.** Bernat, T. P., et al. "Zinc-Nucleated D<sub>2</sub> and H<sub>2</sub> Crystal Formation from Their Liquids." *Fusion Science and Technology* 70.2 (2016): 196-205.
- 874.** Zhang, Jiawei, et al. "Engineering high-energy surfaces of noble metal nanocrystals with enhanced catalytic performances." *Nano Today* 11.5 (2016): 661-677.
- 875.** Tassev, Vladimir L., et al. "Heteroepitaxial growth of OPGaP on OPGaAs for frequency conversion in the IR and THz." *Optical Materials Express* 6.5 (2016): 1724-1737.
- 876.** Singha, Tapas, and Malay K. Nandy. "A renormalization scheme and skewness of height fluctuations in (1+ 1)-dimensional VLDS dynamics." *Journal of Statistical Mechanics: Theory and Experiment* 2016.2 (2016): 023205.
- 877.** Goswami, Ankur, et al. "Effect of interface on mid-infrared photothermal response of MoS<sub>2</sub> thin film grown by pulsed laser deposition." *arXiv preprint arXiv:1607.04682* (2016).
- 878.** Scarfiello, Riccardo, Concetta Nobile, and P. Davide Cozzoli. "Colloidal Magnetic



- Heterostructured Nanocrystals with Asymmetric Topologies: Seeded-Growth Synthetic Routes and Formation Mechanisms." *Frontiers in Materials* 3 (2016): 56.
- 879.** Fu, Weng, James Vaughan, and Alistair Gillespie. "In situ AFM investigation of gibbsite growth in high ionic strength, highly alkaline, aqueous media." *Hydrometallurgy* 161 (2016): 71-76.
- 880.** Govind Rajan, Ananth, et al. "Generalized Mechanistic Model for the Chemical Vapor Deposition of 2D Transition Metal Dichalcogenide Monolayers." *ACS nano* 10.4 (2016): 4330-4344.
- 881.** Luz, Ignacio, et al. "Understanding the Formation Mechanism of Metal Nanocrystal@ MOF-74 Hybrids." *Chemistry of Materials* 10 (4) (2016) 4330–4344.
- 882.** Xia, Younan, et al. "Seed-Mediated Growth of Colloidal Metal Nanocrystals." *Angewandte Chemie International Edition* (2016) DOI: 10.1002/anie.201604731
- 883.** Sarma, Prasad V., et al. "Controllable growth of few-layer spiral WS<sub>2</sub>." *RSC Advances* 6.1 (2016): 376-382.
- 884.** Yan, Aiming, et al. "Identifying different stacking sequences in few-layer CVD-grown MoS<sub>2</sub> by low-energy atomic-resolution scanning transmission electron microscopy." *Physical Review B* 93.4 (2016): 041420.
- 885.** Fu, Weng, et al. "Mechanisms of Polyacrylate Modified Sodium Oxalate Crystallization from Highly Alkaline Solutions." *Crystal Growth & Design* 16.3 (2016): 1519-1530.
- 886.** Jolivet, Jean-Pierre. *De la solution à l'oxyde-2e ED: Chimie aqueuse des cations métalliques-synthèse de nanostructures chimie aqueuse des cations métalliques synthèse de nanostructures.* EDP Sciences, 2016.
- 887.** Hirohata, Atsufumi, et al. "Heusler Alloy Films for Spintronic Devices." *Heusler Alloys.* Springer International Publishing, 2016. 219-248.
- 888.** Li, Rongjin, et al. "Gibbs–Curie–Wulff Theorem in Organic Materials: A Case Study on the Relationship between Surface Energy and Crystal Growth." *Advanced Materials* 28.8 (2016): 1697-1702.
- 889.** Gao, Junfeng, Gang Zhang, and Yong-Wei Zhang. "The Critical Role of Substrate in Stabilizing Phosphorene Nanoflake: A Theoretical Exploration." *Journal of the American Chemical Society* 138.14 (2016): 4763-4771.
- 890.** Shahani, Ashwin J., et al. "Ostwald ripening of faceted Si particles in an Al-Si-Cu melt." *Materials Science and Engineering: A* 673 (2016): 307-320.
- 891.** Xia, Younan, et al. "Keimvermitteltes Wachstum kolloidaler Metallnanokristalle." *Angewandte Chemie* 129.1 (2017): 60-98.
- 892.** Huang, Jiaqiang, et al. "Anomalous Enhancement of Li-O<sub>2</sub> Battery Performance with Li<sub>2</sub>O<sub>2</sub> Films Assisted by NiFeOx Nanofiber Catalysts: Insights into Morphology Control." *Advanced Functional Materials* 26.45 (2016): 8290-8299.
- 893.** Yin, Xin, and Xudong Wang. "Kinetics-Driven Crystal Facets Evolution at the Tip of Nanowires: A New Implementation of the Ostwald-Lussac Law." *Nano Letters* 16.11 (2016): 7078-7084.
- 894.** Tominaga, Yusuke, et al. "Promotion of protein crystal growth by actively switching crystal growth mode via femtosecond laser ablation." *Nature Photonics* 10.11 (2016): 723-726.
- 895.** Niu, Gang, et al. "Dislocation-free Ge Nano-crystals via Pattern Independent Selective Ge Heteroepitaxy on Si Nano-Tip Wafers." *Scientific reports* 6 (2016), doi: 10.1038/srep22709
- 896.** Alexander, Andrew J. "Laser processing: Making light work of crystal growth." *Nature*

Photonics 10.11 (2016): 694-695.

- 897.** Koperwas, Kajetan, et al. "Glass-Forming Tendency of Molecular Liquids and the Strength of the Intermolecular Attractions." *Scientific Reports* 6 (2016) doi: 10.1038/srep36934
- 898.** Hu, Peng, et al. "Crystal Growth, HOMO–LUMO Engineering, and Charge Transfer Degree in Perylene-F x TCNQ (x = 1, 2, 4) Organic Charge Transfer Binary Compounds." *Crystal Growth & Design* 16.5 (2016): 3019-3027.
- 899.** Li, Jinjin, et al. "Rate Expressions for Kink Attachment and Detachment During Crystal Growth." *Crystal Growth & Design* 16.6 (2016): 3313-3322.
- 900.** Yin, Xin, Dalong Geng, and Xudong Wang. "Inverted Wedding Cake Growth Operated by the Ehrlich–Schwoebel Barrier in Two-Dimensional Nanocrystal Evolution." *Angewandte Chemie International Edition* 55.6 (2016): 2217-2221.
- 901.** Kumar, Pawan, and B. Viswanath. "Effect of sulfur evaporation rate on screw dislocation driven growth of MoS<sub>2</sub> with high atomic step density." *Crystal Growth & Design* 16.12 (2016): 7145-7154.
- 902.** Tathod, Anup P., and Oz M. Gazit. "Fundamental Insights into the Nucleation and Growth of Mg–Al Layered Double Hydroxides Nanoparticles at Low Temperature." *Crystal Growth & Design* 16.12 (2016): 6709-6713.
- 903.** Qi, Kun, Weitao Zheng, and Xiaoqiang Cui. "Supersaturation-controlled surface structure evolution of Pd@ Pt core–shell nanocrystals: enhancement of the ORR activity at a sub-10 nm scale." *Nanoscale* 8.3 (2016): 1698-1703.
- 904.** Tilbury, Carl J., and Michael F. Doherty. "Modeling Layered Crystal Growth at Increasing Supersaturation by Connecting Growth Regimes." *AIChE Journal* (2016) DOI: 10.1002/aic.15617
- 905.** Wang, Di, et al. "Van der Waals epitaxy of ultrathin  $\alpha$ -MoO<sub>3</sub> sheets on mica substrate with single-unit-cell thickness." *Applied Physics Letters* 108.5 (2016): 053107.
- 906.** Schmelzer, Jörn WP, and Alexander S. Abyzov. "Crystallization of glass-forming liquids: Specific surface energy." *The Journal of Chemical Physics* 145.6 (2016): 064512.
- 907.** Joswiak, Mark N., Michael F. Doherty, and Baron Peters. "Critical length of a one-dimensional nucleus." *The Journal of Chemical Physics* 145.21 (2016): 211916.
- 908.** Zhang, Yanhui, et al. "Invisible growth of microstructural defects in graphene chemical vapor deposition on copper foil." *Carbon* 96 (2016): 237-242.
- 909.** Wang, Na, et al. "Stability investigations on the non-vdW-exfoliated surfaces of the topological insulator Bi<sub>2</sub>Te<sub>3</sub>: A first-principles study." *Physical Review B* 93.11 (2016): 115306.
- 249.** Tyuliev, G., Panayotov, D., Avramova, I., **Stoychev, D.**, Marinova, Ts.. Thin-film coating of Cu-Co oxide catalyst on lanthana/zirconia films electrodeposited on stainless steel. *Materials Science and Engineering: C*, 23, Elsevier, 2003, ISSN:0928-4931, DOI:10.1016/S0928-4931(02)00251-5, 117-121. SJR:0.672, ISI IF:3.088
- Цитира се в:
- 910.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 250.** J. Yaneva, **A. Milchev**, K. Binder. Dynamics of a Spreading Nanodroplet: A Molecular Dynamic Simulation, *Macromol. Theory & Simul.* 2003

Цитира се в:

- 911.** Lu, G., Wang, X.-D., Duan, Y.-Y. A Critical Review of Dynamic Wetting by Complex Fluids: From Newtonian Fluids to Non-Newtonian Fluids and Nanofluids (2016) *Advances in Colloid and Interface Science*, 236, pp. 43-62. 10.1016/j.cis.2016.07.004
- 912.** Voyiatzis, E., Müller-Plathe, F., Böhm, M.C. Influence of nanoparticle inclusion on the cavity size distribution and accessible volume in polystyrene  $\diamond\sim\text{@}\sim\text{S}$  Silica nanocomposites (2016) *Polymer (United Kingdom)*, 101, pp. 107-118. 10.1016/j.polymer.2016.08.042
- 913.** Isele-Holder, R.E., Ismail, A.E. Classification of precursors in nanoscale droplets (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (4), art. no. 043319, 10.1103/PhysRevE.93.043319
- 914.** Thampi, S.P., Pagonabarraga, I., Adhikari, R., Govindarajan, R. Universal evolution of a viscous-capillary spreading drop (2016) *Soft Matter*, 12 (28), pp. 6073-6078. 10.1039/c6sm01167e
- 251. Milchev, A.** Wedge filling and interface delocalization in finite Ising lattices with antisymmetric surface fields. 2003

Цитира се в:

- 915.** Malijevsky, A., Parry, A.O. Influence of intermolecular forces at critical-point wedge filling (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (4), art. no. 040801, 10.1103/PhysRevE.93.040801

---

**2004**

---

- 252.** Stefanov, P., Stoychev, D., Aleksandrova, A., Nicolova, D., Atanasova, G., Marinova, Ts.. Compositional and structural characterization of alumina coatings deposited electrochemically on stainless steel. *Applied Surface Science*, 235, 2-Jan, 2004, ISSN:1694332, DOI:10.1016/j.apsusc.2004.05.119, 80-85. SJR:0.93, ISI IF:3.15

Цитира се в:

- 916.** Applied Surface Science Available online 20 October 2016 In Press, Accepted Manuscript Full Length Article Characterization of stainless steel surface processed using electrolytic oxidation and titanium complex ion solution Yubin Kang, Jaeyoung Choi, Jinju Park, Woo-Byoung Kim, Kun-Jae Lee
- 917.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и У за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 253. Avramov, I., R?ssel, C., Avramova, K..** Conditions for metastable crystallization from undercooled melts. *Journal of Non-Crystalline Solids*, 337, 3, 2004, ISSN:223093, DOI:10.1016/j.jnoncrysol.2004.04.012, 220-225

Цитира се в:

- 918.** Kołodziejczyk, K, Tarnacka, M., Kamińska, E., Dulski, M., Kamiński, K., Paluch, M., *Crystal Growth and Design* 16, Issue 3, 2 March 2016, Pages 1218-1227
- 919.** Maria de Castro Paisana, Dissertation, UNIVERSIDADE DE LISBOA FACULDADE DE FARMÁCIA DE PARTAMENTO DE FARMÁCIA GALÉNICA E TECNOLOGIA

254. Ivanov, S., **Tsakova, V.** Silver electrocrystallization at polyaniline-coated electrodes. *Electrochimica Acta*, 49, 6, 2004, ISSN:134686, DOI:10.1016/j.electacta.2003.09.044, 913-921

Цитирана се в:

920. F. Hashemi, A.R. Zanganeh, Electrochemically induced regioregularity of the binding sites of a polyaniline membrane as a powerful approach to produce selective recognition sites for silver ion, *J. Electroanal. Chem.* 767 (2016) 24-33
921. V V Kondratiev, V V Malev, S N Eliseeva, Composite electrode materials based on conducting polymers loaded with metal nanostructures, *Russ. Chem. Rev.* 85 (2016) 14 – 37.
922. H. Jiyong, L. Guohao, S. Junhui, Y. Xudong, D. Xin, Improving the electromagnetic shielding of nickel/polyaniline coated polytrimethylene-terephthalate knitted fabric by optimizing the electroless plating conditions, *Textile, Res. J.* 2016, DOI:10.1177/0040517516641361
923. J. Wang, M. Wang, J. Guan, C. Wang, G. Wang, Construction of a non-enzymatic sensor based on the poly(o-phenylenediamine)/Ag-NPs composites for detecting glucose in blood, *Mat. Sci. Eng. C*, 2016, DOI: 10.1016/j.msec.2016.10.080
924. V.T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016
255. Stefanov, P., Atanasova, G., **Stoychev, D.**, Marinova, Ts.. Electrochemical deposition of CeO<sub>2</sub> on ZrO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> thin films formed on stainless steel. *Surface and Coatings Technology*, 180-181, Elsevier, 2004, ISSN:2578972, DOI:10.1016/j.surfcoat.2003.10.083, 446-449. SJR:0.96, ISI IF:1.998

Цитирана се в:

925. Acosta-Silva, Y., Castañedo-Perez, R., Torres-Delgado, G. et al. *J Sol-Gel Sci Technol* (2016). doi:10.1007/s10971-016-4286-7 Print ISSN 0928-0707 Online ISSN 1573-4846 Publisher Name Springer US
926. O.H.Loguna, M.I.Domongez, M.A.Conteno, J.A.Odizola, Catalysts on Metallic Surfaces: Monoliths and Microreactors, Chapter 4, In "New materials for Catalytic Applications", Eds. V.Parvulescu, E.Kemnitz, Elsevier 2016
927. H. Hasannejad, A.Nouri, *Intern. J. Electrochemical Science* 11 (3) (2016) p. 2106-2118
928. Han-Seung Lee 1, Jitendra Kumar Singh 1, 2, Mohamed A. Ismail 3, \* and Chinmoy Bhattacharya, Corrosion Resistance Properties of Aluminum Coating Applied by Arc Thermal Metal Spray in SAE J2334 Solution with Exposure Periods, *Metals* 2016, 6(3), 55; doi:10.3390/met6030055
929. *Journal of Sol-Gel Science and Technology* July 2016, Volume 79, Issue 1, pp 51-58 "Effect of iron doping on the structural and optical properties of CeO<sub>2</sub> films" Duangdao Channei, Auppatham Nakaruk, Sukon Phanichphant, Pramod Koshy, Charles Christopher Sorrell DOI 10.1007/s10971-016-4028-x
930. А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
931. Structure and Corrosion Behavior of Sputter Deposited Ce-Al-O Coating on Al 2024-T3 Alloy Substrates Yuanyuan Liua, Jiamu Huang, James B. Claypoolb and Matthew J. O'Keefe 10.1149/2.0671605jes *J. Electrochem. Soc.* 2016 volume 163, issue 5, C198-C204
932. Aiouaz, F., Jeannin, M., Creus, J. et al. Elaboration and microstructural characterization of

calcareous/ceria based composite on zinc substrate Protection of metals and physical chemistry of surfaces 52(5):894-899 · September 2016, DOI: 10.1134/S2070205116050026

**933.** Gold-supported cerium-doped NiOx catalysts for water oxidation Jia Wei Desmond Ng<sup>1</sup>, Max García-Melchor<sup>2</sup>, Michal Bajdich ORCID: [orcid.org/0000-0003-1168-86162](https://orcid.org/0000-0003-1168-86162), Pongkarn Chakthranont<sup>1</sup>, Charlotte Kirk<sup>1</sup>, Aleksandra Vojvodic<sup>2</sup> & Thomas F. Jaramillo<sup>1</sup>, *Nature Energy* 1, Article number: 16053 (2016), doi:10.1038/nenergy.2016.53 doi:10.1038/nenergy.2016.53

**934.** Int. J. Electrochem. Sci., 11 (2016) 2106 - 2118 Synthesis and Evaluation of Self-healing Cerium-Doped Chitosan Nanocomposite Coatings on AA5083-H321 Hossein Hassannejad\* and Ashkan Nouri

**256. Stoychev, D., Stefanov, P., Nikolova, D., Aleksandrova, A., Atanasova, G., Marinova, Ts..** Preparation of Al<sub>2</sub>O<sub>3</sub> thin films on stainless steel by electrochemical deposition. *Surface and Coatings Technology*, 180-181, 2004, ISSN:2578972, DOI:10.1016/j.surfcoat.2003.10.080, 441-445. ISI IF:1.98

Цитирана се в:

**935.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

**936.** S. Ponnudi, R. Sivakumar C. Sanjeeviraja "Studies on the properties of Al<sub>2</sub>O<sub>3</sub>:Cr<sub>2</sub>O<sub>3</sub> (50:50) thin film" INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND APPLIED PHYSICS (ICC 2015): Proceeding of International Conference on Condensed Matter and Applied Physics AIPconference Proceedings 1728, 020288 (2016) DOI: 10.1063/1.4946339

**257. Kashchiev, D..** Multicomponent nucleation: Thermodynamically consistent description of the nucleation work. *Journal of Chemical Physics*, 120, 8, 2004, ISSN:219606, DOI:10.1063/1.1643711, 3749-3758

Цитирана се в:

**937.** Preuss, Oliver, et al. "Special Collection: Rates and Depths of Magma Ascent on Earth: Degassing of Hydrous Trachytic Campi Flegrei and Phonolitic Vesuvius Melts: Experimental Limitations and Chances to Study Homogeneous Bubble Nucleation." *American Mineralogist* 101.4 (2016): 859-875.

**938.** Preuss, Oliver, et al. "Degassing of hydrous trachytic Campi Flegrei and phonolitic Vesuvius melts: Experimental limitations and chances to study homogeneous bubble nucleation." *American Mineralogist* 101.4 (2016): 859-875.

**258. Krastev, I., Valkova, T., Zielonka, A..** Structure and properties of electrodeposited silver-bismuth alloys. *Journal of Applied Electrochemistry*, 34, 1, 2004, ISSN:0021891X, DOI:10.1023/B:JACH.0000005606.24413.21, 79-85. ISI IF:2.409

Цитирана се в:

**939.** Golvano-Escobal, I., Gonzalez-Rosillo, J.C., Domingo, N., Illa, X., Lopez-Barberá, J.F., Fornell, J., Solsona, P., Aballe, L., Foerster, M., Surinäch, S., Baro, M.D., Puig, T., Pané, S., Nogués, J., Pellicer, E., Sort, J., Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks, *Scientific Reports*, 6, 2016

**940.** Golvano-Escobal, Irati; de Dios Sirvent, Juan; Ferran-Marqués, Marta; Surinach, Santiago; Baro, Maria Dolors; Pané, Salvador; Sort, Jordi; Pellicer, Eva, Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure, *Materials&Design*, 2016, ISSN/ISBN 0264-1275, doi: 10.1016/ j.matdes.2016.11.088

259. **Milchev, A.**, K. Binder, A. Bhattacharya. Polymer translocation through a nanopore induced by adsorption: Monte Carlo simulation of a coarse-grained model. 2004

Цумура се в:

941. Vollmer, S.C., De Haan, H.W. Translocation is a nonequilibrium process at all stages: Simulating the capture and translocation of a polymer by a nanopore (2016) Journal of Chemical Physics, 145 (15), art. no. 154902 DOI: 10.1063/1.4964630
942. Domanski, Z., Grzybowski, A.Z. Analysis of sequential algorithms as tools for modeling the chain-like-body evolution (2016) 2015 IEEE 13th International Scientific Conference on Informatics, INFORMATICS 2015 - Proceedings, art. no. 7377815, pp. 97-102. 10.1109/Informatics.2015.7377815

260. **A. Milchev.** Polymer translocation through a nanopore induced by adsorption: Monte Carlo simulation of a coarse-grained model.. 2004

Цумура се в:

943. Hsiao, P.-Y. Conformation change, tension propagation and drift-diffusion properties of polyelectrolyte in nanopore translocation (2016) Polymers, 8 (10), art. no. 378 DOI: 10.3390/polym8100378
944. Zhang, C., Lin, X., Yang, H. Theoretical model of biomacromolecule through nanopore including effects of electrolyte and excluded volume (2016) Applied Mathematics and Mechanics (English Edition), 37 (6), pp. 787- 802. 10.1007/s10483-016-2082-6
945. Hsiao, P.-Y. Polyelectrolyte threading through a nanopore (2016) Polymers, 8 (3), art. no. 73, 10.3390/polym8030073

261. **Valova E., Armyanov S.,** Franquet A., Petrov K., Kovacheva D., Dille J., Delplancke J.-L., Hubin A., Steenhaut O., Vereecken J.. Comparison of the Structure and Chemical Composition of Crystalline and Amorphous Electroless Ni-W-P Coatings. Journal of the Electrochemical Society, 151, 6, The Electrochemical Society, 2004, ISSN:Print ISSN: 0013-4651; Online ISSN: 1945-7111, C385-C391. ISI IF:2.01

Цумура се в:

946. E. J. Kim., K.-H. Kim, D. H. Lee, W. S. Jung, J.-H. Lim, Formation of Ni-W-P--Cu Electrodes for Silicon Solar Cells by Electroless Deposition, J. Korean Inst. Surf. Engineering, 49, 54-61 (2016)

262. Stubenrauch, C., **Kashchiev, D.,** Strey, R.. Phase diagrams of nonionic foam films: Construction by means of disjoining pressure versus thickness curves. Journal of Colloid and Interface Science, 280, 1, 2004, ISSN:219797, DOI:10.1016/j.jcis.2004.07.011, 244-255

Цумура се в:

947. Keal, Louis, et al. "Drainage dynamics of thin liquid foam films containing soft PNiPAM microgels: influence of the cross-linking density and concentration." Soft Matter 13.1 (2017): 170-180.

---

2005

---

263. Avramova, I., Stefanov, P., **Nicolova, D., Stoychev, D.,** Marinova, Ts.. Characterization of

nanocomposite CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> coatings electrodeposited on stainless steel. Composites science and technology, 65, 11-12, Elsevier, 2005, ISSN:0266-3538, DOI:10.1016/j.compscitech.2005.04.005, 1663-1667. SJR:1.651, ISI IF:3.569

Цитира се в:

**948.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

**949.** Aiouaz, F., Jeannin, M., Creus, J. et al. Elaboration and microstructural characterization of calcareous/ceria based composite on zinc substrate Protection of metals and physical chemistry of surfaces 52(5):894-899 · September 2016 DOI: 10.1134/S2070205116050026

**264.** Armyanov, S, Valova, E, Franquet, A, Dille, J, Delplancke, J.-L., Hubin, A., Steenhaut, O, Kovacheva, D, Tatchev, D, Vassilev Ts.. Crystalline and amorphous electroless Co-W-P coatings. Journal of the Electrochemical Society, 152, 9, 2005, ISSN:00134651, DOI:DOI: 10.1149/1.1990124, C612-C619. SJR:1.157, ISI IF:2.921

Цитира се в:

**950.** Seifzadeh, D., and L. Farhoudi. "Electroless Co-P plating on magnesium alloy and its anti-corrosion properties." Surface Engineering 32.5 (2016): 348-355.

**265.** A. Corsi, A. Milchev, Rostiashvili V.G., Vilgis T.A.. Localization of a multiblock copolymer at a selective interface: Scaling predictions and Monte Carlo verification. 2005

Цитира се в:

**951.** Li, J., Zhang, Z., Zhou, X., Chen, T., Nie, J., Du, B. PNIPAmx-PPO36-PNIPAmx thermo-sensitive triblock copolymers: Chain conformation and adsorption behavior on a hydrophobic gold surface (2016) Physical Chemistry Chemical Physics, 18 (1), pp. 519-528. 10.1039/c5cp06079f

**266.** Platikanov, D., Exerowa, D.. “Symmetric Thin Liquid Films with Fluid Interfaces”, Chapter 3 in: “Emulsions and Emulsion Stability”. Surfactant Science Series, Sec. Edition, Ed. J. Sjoblom, 132, CRC Taylor & Francis, Boca Raton, 2005, ISBN:ISBN 0-8247-2695-2

Цитира се в:

**952.** Butler, Calum S.; Seeger, Zoe L. E.; Bell, Toby D. M.; et al., Local determination of thin liquid film profiles using colour interferometry, Eur. Phys. J. E 39 2 (2016) Art. Number: 14.

**267.** Platikanov, D., Exerowa, D.. “Thin Liquid Films” Chapter 6 in: “Fundamentals of Interface and Colloid Science”. 5, Ed. J. Lyklema, Elsevier, Academic Press, Amsterdam, 2005, ISBN:ISBN 0-12-460530-3

Цитира се в:

**953.** Zheng, Lichun; Malfliet, Annelies; Wollants, Patrick; et al., Effect of surfactant Te on the behavior of alumina inclusions at advancing solid-liquid interfaces of liquid steel Acta Materialia 120 (2016) 443-452.

**954.** Zhang, Xurui; Tchoukov, Plamen; Manica, Rogerio; et al., Simultaneous measurement of dynamic force and spatial thin film thickness between deformable and solid surfaces by integrated thin liquid film force apparatus, Soft Matter 12 44 (2016) 9105-9114.

**268.** Georgieva, J., Kawashima, S., Armyanov, S., Valova, E., Hubin, A., Koyama, Y., Steenhaut, O.,

Haydu, J., Delplancke, J.-L., Tsacheva. Electroless deposition of Ni-Sn-P and Ni-Sn-Cu-P coatings. Journal of the Electrochemical Society, 152, 11, 2005, ISSN:134651, DOI:10.1149/1.2050467, C783-C788

Цумура се в:

**955.** Bangwei Zhang, Ch. 9 “Surface Morphologies” in “Amorphous and Nano Alloys Electroless Depositions”, 2016, Pages 503-579

**269.** Avramov, I., Avramova, K., R?ssel, C.. New method to analyze data on overall crystallization kinetics. Journal of Crystal Growth, 285, 3, 2005, ISSN:220248, DOI:10.1016/j.jcrysgro.2005.08.024, 394-399. ISI IF:1.681

Цумура се в:

**956.** Jasiurkowska-Delaporte, M; Napolitano, S; Leys, J; Juszynska-Galazka, E; Wubbenhorst, M; Massalska-Arodz, M, JOURNAL OF PHYSICAL CHEMISTRY B, 120 (47):12160-12167; 10.1021/acs.jpcc.6b06303 DEC 1 2016

**957.** A new polymorphic form and polymorphic transformation of loratadine By: Chang, Ruimiao; Fu, Qiang; Yu, Pei; et al. RSC ADVANCES Volume: 6 Issue: 88 Pages: 85063-85073 Published: 2016

**958.** Crystallization Kinetics under Confinement. Manipulation of the Crystalline Form of Salol by Varying Pore Diameter By: Kolodziejczyk, Karolina; Tarnacka, Magdalena; Kaminska, Ewa; et al. CRYSTAL GROWTH & DESIGN Volume: 16 Issue: 3 Pages: 1218-1227 Published: MAR 2016

**270.** Dobrovolska, Ts., Krastev, I., Zielonka, A.. Effect of the electrolyte composition on in and Ag-In alloy electrodeposition from cyanide electrolytes. Journal of Applied Electrochemistry, 35, 12, 2005, ISSN:0021891X, DOI:10.1007/s10800-005-9036-4, 1245-1251

Цумура се в:

**959.** Rudnik, E., and E. Lechowicz-Kozłowska. "Woltamperometryczna analiza redukcji jonów indu (III) w rozcieńczonych roztworach azotanowych zawierających związki kompleksotwórcze." Rudy i Metale Nieżelazne Recykling 61 (2016)

**271.** Omi, H., Homma, Y., Tonchev, V., Pimpinelli, A.. New types of unstable step-flow growth on Si(111)-(7?7) during molecular beam epitaxy: Scaling and universality. Physical Review Letters, 95, 21, 2005, ISSN:319007, DOI:10.1103/PhysRevLett.95.216101

Цумура се в:

**960.** D. I. Rogilo, N. E. Rybina, S. S. Kosolobov, L. I. Fedina, and A. V. Latyshev, Optoelectronics, Instrumentation and Data Processing, 52, 3 (2016) 286–291. Originally published in Avtometriya, Vol. 52, 3 (2016) 86–92.

**272.** Georgieva, J., Armyanov, S., Valova, E., Tsacheva, Ts., Poullos, I., Sotiropoulos, S.. Photoelectrochemical behaviour of electrodeposited tungsten trioxide and electrosynthesised titanium dioxide single component and bilayer coatings on stainless steel substrates. Journal of Electroanalytical Chemistry, 585, 1, 2005, ISSN:220728, DOI:10.1016/j.jelechem.2005.07.018, 35-43

Цумура се в:

**961.** M. Dobromir, R.P. Apetrei, S. Rebegea, A.V. Manole, V. Nica, D. Luca, Synthesis and characterization of RF sputtered WO<sub>3</sub>/TiO<sub>2</sub> bilayers, Surf. Coat. Technol., 285, 197-202 (2016)



273. **Avramov, I.** Viscosity in disordered media. *Journal of Non-Crystalline Solids*, 351, 40-42, 2005, ISSN:223093, DOI:10.1016/j.jnoncrysol.2005.08.021, 3163-3173

Цумура се в:

962. Kondratiev, A; Khvan, AV, *JOURNAL OF NON-CRYSTALLINE SOLIDS*, 432 366-383; 10.1016/j.jnoncrysol.2015.10.033 B JAN 15 2016
963. V. Tzakova, *Chemistry* 25, Issue 1, 2016, Pages 35-67
964. Christina Krause, Dissertation, Berlin 2016
965. W Dietz - *Polymer Engineering & Science*, 2016

274. **Armyanov, S., Valova, E., Franquet, A., Dille, J., Delplancke, J.-L., Hubin, A., Steenhaut, O., Kovacheva, D., Tatchev, D., Vassilev, Ts.** Crystalline and amorphous electroless Co-W-P coatings. *Journal of the Electrochemical Society*, 152, 9, 2005, ISSN:134651, DOI:10.1149/1.1990124, C612-C619

Цумура се в:

966. D. Seifzadeh, L. Farhoudi, Electroless Co-P plating on magnesium alloy and its anti-corrosion properties, *Surface Engineering*, 32, 348-355 (2016).

275. **Boshkov, N., Petrov, K., Kovacheva, D., Vitkova, S., Nemska, S.** Influence of the alloying component on the protective ability of some zinc galvanic coatings. *Electrochimica Acta*, 51, 1, 2005, ISSN:134686, DOI:10.1016/j.electacta.2005.03.049, 77-84

Цумура се в:

967. Touazi, S., Bucko, M., Makhloufi, L., Legat, A., Bajat, J.B., "The electrochemical behavior of Zn-Mn alloy coating in carbonated concrete solution", (2016), *Surface Review and Letters*, 23, (4), art. No. 1650030.
968. Tafreshi M., Allahkaram S.R., Farhangi H., "Comparative study on structure, corrosion properties and tribological behavior of pure Zn and different Zn-Ni alloy coatings", (2016), *Materials Chemistry and Physics*, 183, 263-272.
969. Ji S.Y., Liang S.H., Song K.X., Li H.X., Li Z., "Effects of lanthanum on the microstructure, electrochemical behavior, and anti-corrosion properties of zinc-copper-titanium alloy in 3% sodium chloride solution", (2016), *Materials and Corrosion*, DOI: 10.1002/maco.201609159.
970. Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., "Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings from acidic chloride electrolyte containing 4-hydroxybenzaldehyde and ammonium thiocyanate", (2016), *Surface and Coatings Technology*, 298, 73-82.
971. Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., "Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings", (2016), MA2016-01, 229-th ECS Meeting, San Diego, CA, Meeting Abstract.
972. Guo, J., Guo, X., Wang, S., Zhang, Z., Dong, J., Peng, L., Ding, W., "Effects of glycine and current density on the mechanism of electrodeposition, composition and properties of Ni-Mn films prepared in ionic liquid", (2016), *Applied Surface Science*, 365, 31-37.
973. Badida, M., Sobotova, L., Gombar, M., Kmec, J., Kucerka, D., Hrmo, R., "The contribution to coating quality evaluation by statistical methods", (2016), *Metalurgija*, 55, (3), 445-448.
974. Azizi, F., Kahoul, A., "Electrodeposition and corrosion behaviour of Zn/Co coating produced from a sulphate bath", (2016), *Transactions of the Institute of Metal Finishing*, 94, (1), 43-48.

975. Tsakova, V., "The Bulgarian physicochemical tradition and the Institute of Physical Chemistry "Academician Rostislav Kaischew", (2016), Chemistry, 25, (1), 35-67.
276. Ivanov, S., **Tsakova, V.**. Electroless versus electrodriven deposition of silver crystals in polyaniline: Role of silver anion complexes. *Electrochimica Acta*, 50, 28, 2005, ISSN:134686, DOI:10.1016/j.electacta.2005.03.040, 5616-5623

Цумура се в:

976. R. Liu, H. Cao, Z. Nie, S. Si, X. Zhao, X. Zeng, A disposable expanded graphite paper electrode with self-doped sulfonated polyaniline/antimony for stripping voltammetric determination of trace Cd and Pb, *Anal. Methods*, 8, (2016) 1618-1625.
977. F. Hashemi, A.R. Zanganeh, Electrochemically induced regioregularity of the binding sites of a polyaniline membrane as a powerful approach to produce selective recognition sites for silver ion, *J. Electroanal. Chem.* 767 (2016) 24-33.
978. V V Kondratiev, V V Malev, S N Eliseeva, Composite electrode materials based on conducting polymers loaded with metal nanostructures, *Russ. Chem. Rev.* 85 (2016) 14 – 37.
979. I.L. Lehr, S.B. Saidman, Synthesis of a hole-containing polypyrrole film modified by copper cementation, *J. Appl. Polym. Sci.*, 133, (2016) Art.No .43650
980. E. Kolasinska, P. Kolasinski, A Review on Electroactive Polymers for Waste Heat Recovery, *Materials*, 9 (2016) Art. Nr. 485
981. E. Kolasinska, P. Kolasinski, P. Mazurek, Polymer Materials for the Heat Recovery, *IOP Conference Series: Materials Science and Engineering*, 113 (2016) Art. Nr.012023
982. V.T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016
277. Ter Horst, J.H., **Kashchiev, D.**. Determining the nucleation rate from the dimer growth probability. *Journal of Chemical Physics*, 123, 11, 2005, ISSN:219606, DOI:10.1063/1.2039076

Цумура се в:

983. Zhukhovitskii, D. I. "Enhancement of the droplet nucleation in a dense supersaturated Lennard-Jones vapor." *The Journal of chemical physics* 144.18 (2016): 184701.
278. **Kashchiev, D.**, Vekilov, P.G., Kolomeisky, A.B.. Kinetics of two-step nucleation of crystals. *Journal of Chemical Physics*, 122, 24, 2005, ISSN:219606, DOI:10.1063/1.1943389

Цумура се в:

984. Byington, Michael C., et al. "Protein Conformational Flexibility Enables the Formation of Dense Liquid Clusters: Tests Using Solution Shear." *The journal of physical chemistry letters* 7 (2016) 2339–2345
985. Byington, Michael C., et al. "Shear flow suppresses the volume of the nucleation precursor clusters in lysozyme solutions." *Journal of Crystal Growth* (2016), doi.org/10.1016/j.jcrysgro.2016.12.080
986. Bourque, Alexander, C. Rebecca Locker, and Gregory C. Rutledge. "Molecular dynamics simulation of surface nucleation during growth of an alkane crystal." *Macromolecules* 49.9 (2016): 3619-3629.
987. Šarić, Anđela, et al. "Kinetics of spontaneous filament nucleation via oligomers: insights from theory and simulation." *The Journal of Chemical Physics* 145 (21) (2016).

988. Oleksiak, Matthew D., et al. "Nucleation of FAU and LTA Zeolites from Heterogeneous Aluminosilicate Precursors." *Chemistry of Materials* 28.14 (2016): 4906-4916.
989. Mitchell, Geoffrey R., et al. "Controlling Morphology Using Low Molar Mass Nucleators." *Controlling the Morphology of Polymers*. Springer International Publishing, 2016. 145-161.
990. Mahapatra, A. K., et al. "Mechanism of phase transition, from vapor to solid: Transient liquid phase is between the two." *EPL (Europhysics Letters)* 115.3 (2016): 36003.
991. Irzhak, V. I. "The mechanisms of the formation of metal-containing nanoparticles." *Review Journal of Chemistry* 6.4 (2016): 370-404.
992. Tahri, Yousra. *Vers une meilleure compréhension de la cristallisation en solution de polymorphes: étude expérimentale et modélisation par bilan de population et par équations cinétiques*. Diss. Université de Lyon, 2016.
279. Stefanov, P., Avramova, I., **Stoychev, D.**, Radić, N., Grbić, B., Marinova, Ts.. Characterization and catalytic activity of Cu–Co spinel thin films catalysts. *Applied Surface Science*, 245, Elsevier, 2005, 65-72. SJR:0.913, ISI IF:2.711

Цумура се в:

993. Nano-scale sulfur-tolerant lanthanide oxysulfide/oxysulfate catalysts for water–gas-shift reaction in a novel reactor configuration Shuai Tan a, Stephen N. Paglieri b, Dongmei Li a, *Catalysis Communications* 73 (2016) 16–21, <http://dx.doi.org/10.1016/j.catcom.2015.10.007>
994. *Int. J. Electrochem. Sci.*, 11 (2016) 8002 – 8015, doi: 10.20964/2016.09.12 International Journal of ELECTROCHEMICAL SCIENCE [www.electrochemsci.org](http://www.electrochemsci.org) Electrochemical Characterization and Oxygen Reduction Kinetics of Cu-incorporated Cobalt Oxide Catalyst Immanuel Vincent and Dmitri Bessarabov\* DST
995. *Modern Physics Letters B Condensed Matter Physics; Statistical Physics; Atomic, Molecular and Optical Physics* Volume 30, Issue 27, 10 October 2016 S. Kerli, *Mod. Phys. Lett. B*, 30, 1650343 (2016) [8 pages] DOI: <http://dx.doi.org/10.1142/S0217984916503437> Boron-doped cobalt oxide thin films and its electrochemical properties S. Kerli
996. Amri, A., Jiang, Z., Yin, C., Fadli, A., Rahman, M. M., Bahri, S., Widjaja, H., Mondinos, N., Herawan, T., Munir, M. M., Priyotomo, G. (2016) 'Structural, optical, and mechanical properties of cobalt copper oxide coatings synthesized from low concentrations of sol–gel process' *Physica status solidi (A)*; Online first 17 Aug 2016 URI:<http://hdl.handle.net/10149/620110DOI:10.1002/pssa.201600207>
997. Mousavi, Z., Salavati-Niasari, M., Soofivand, F. et al. *Journal of Elec Materi* (2016) 45: 5739. doi:10.1007/s11664-016-4784-y
998. Mesoporous Spinel Nanofibers and Nitrogen-doped Carbon Nanotubes as High-Performance Electrocatalyst for Oxygen Reduction in Alkaline and Neutral Media Haijun Wang, [a] Juan Wang, \*[a] Qin Zhong, [a] Guangyao Zhang, [b] and Yunfei Bu[a] *Energy Technology*, 2016, 4, 1-11, DOI: 10.1002/ente.201600269
999. *Journal of Materials Science & Technology* Available online 13 September 2016 In Press, Corrected Proof Structural Thermal Stability of Graphene Oxide-Doped Copper–Cobalt Oxide Coatings as a Solar Selective Surface M. Mahbubur Rahman<sup>1</sup>, Zhong-Tao Jiang<sup>1</sup>, Chun-Yang Yin<sup>2</sup>, Lee Siang Chuah<sup>3</sup>, Hooi-Ling Lee<sup>4</sup>, Amun Amri<sup>5</sup>, Bee-Min Goh<sup>6</sup>, Barry J. Wood<sup>7</sup>, Chris Creagh<sup>8</sup>, Nicholas Mondinos<sup>1</sup>, Mohammednoor Altarawneh<sup>8</sup>, Bogdan Z. Dlugogorski<sup>8</sup> <http://dx.doi.org/10.1016/j.jmst.2016.09.002>
1000. NiFe<sub>2</sub>O<sub>4</sub> as an active component of a platinum group metal-free automotive three-way catalyst Kakuya Ueda, a Cheen Aik Ang, a Yoshihiro Ito, a Junya Ohyamaab and Atsushi Satsuma\*ab

1001. S. Tan, S. Paglieri, D. Li, *Catalysis Communications* 73 (5) (2016) p.16
1002. А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
1003. Zahra Mousavi, Masoud Salavati-Niasari, Faezeh Soofivand, Mahdiyeh Esmaili-Zare, Masood Hamadani "Synthesis and Characterization of Hydrophilic and Semiconductor Cadmium Chromite Nanostructures" *Journal of Electronic Materials*, pp 1–7, 2016 doi:10.1007/s11664-016-4784-y|
1004. *Catalysis Science & Technology* Issue 15, 2016 "Communication NiFe<sub>2</sub>O<sub>4</sub> as an active component of a platinum group metal-free automotive three-way catalyst" Kakuya Ueda, Cheen Aik Ang, Yoshihiro Ito, Junya Ohyamaab and Atsushi Satsuma Nagoya University, Nagoya 464-8603, Japan *Catal. Sci. Technol.*, 2016, 6, 5797-5800 DOI: 10.1039/C6CY00795C

280. Radeva, T., Grozeva, M.. In situ determination of thickness and electrical properties of multilayers from weak polyelectrolytes. *Journal of Colloid and Interface Science*, 287, 2, 2005, ISSN:219797, DOI:10.1016/j.jcis.2005.02.016, 415-421

Цитирани в:

1005. Mei, D.-H., Qiu, D., Yan, D.-D., Structure and interaction of adsorbing symmetrical triblock polyampholyte solution between two planes, *Chinese Journal of Polymer Science (English Edition)* 34 (2), 195-208 (2016).

281. Koleva, D., Boshkov, N., Raichevski, G., Veleva, L.. "Electrochemical corrosion behaviour and surface morphology of electrodeposited zinc, zinc-cobalt and their composite coatings". *Transactions of the Institute of Metal Finishing*, 83, 4, 2005, ISSN:202967, DOI:10.1179/002029605X61676, 188-193

Цитирани в:

1006. Crina, C.A., Lidia, B., Pierre, P., "Phenol-Formaldehyde resin to improve corrosion resistance of zinc layers", (2016), *Key Engineering Materials*, 699, 63-70.
1007. Crina, C.A., Lidia, B., Pierre, P., "Corrosion resistance of zinc-resin hybrid coatings obtained by electro-codeposition", (2016), *Arabian Journal of Chemistry*, <http://dx.doi.org/10.1016/j.arabjc.2016.07.002>

282. Stubenrauch, C., Khristov, K.. Foams and foam films stabilized by CnTAB: Influence of the chain length and of impurities. *Journal of Colloid and Interface Science*, 286, 2, 2005, ISSN:219797, DOI:10.1016/j.jcis.2005.01.107, 710-718

Цитирани в:

1008. Wang, Y., Liu, X., Zhou, Y., Niu, J., Influence of Hydrocarbon Chain Branching on Foam Properties of Olefin Sulfonate with Foam Scan, *J. Surfactants and Detergents* 19 (6) (2016) 1215-1221.
1009. Wang, J., Nguyen, A. V., Farrokhpay, S., A critical review of the growth, drainage and collapse of foams, *Adv. in Colloid and Interface Science* 228 (2016) 55-70.
1010. Briceño-Ahumada, Z., Maldonado, A., Impéror-Clerc, M. A, Langevin, D., On the stability of foams made with surfactant bilayer phases, *Soft Matter* 12 (5) (2016) 1459-1467.

- 283.** Shoumkova, A., Tsacheva, T., **Stoyanova, V.**, Grancharov, I., Shumkov, S., Marinov, M.. Physico-chemical and morphological properties of coal fly ash from “Varna” power plant, Bulgaria. “Ecological Chemistry. Latest Advances” (Book of Proceedings of the Third International Conference on Ecological Chemistry) ), Ed. G. Duca, Chisinau, Moldova,, 2005, ISBN:ISBN 9975-62-134-1, 560-570

Цумура се в:

- 1011.** S. Grawe, Stefanie Augustin-Bauditz, Susan Hartmann, Lisa Hellner, Jan B. C. Pettersson, Andrea Prager, Frank Stratmann, Heike Wex, The immersion freezing behavior of ash particles from wood and brown coal burning, *Atmos. Chem. Phys.* 16 (2016) 13911–13928
- 284. Boshkov, N.,** Petrov, K., Vitkova, S., Raichevsky, G.. Galvanic alloys Zn-Mn - Composition of the corrosion products and their protective ability in sulfate containing medium. *Surface and Coatings Technology*, 194, 3-Feb, 2005, ISSN:2578972, DOI:10.1016/j.surfcoat.2004.09.016, 276-282

Цумура се в:

- 1012.** Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., “Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings from acidic chloride electrolyte containing 4-hydroxybenzaldehyde and ammonium thiocyanate”, (2016), *Surface and Coatings Technology*, 298, 73-82.
- 1013.** Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., “Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings”, (2016), MA2016-01, 229-th ECS Meeting, San Diego, CA, Meeting Abstract.
- 1014.** Guo, J., Guo, X., Wang, S., Zhang, Z., Dong, J., Peng, L., Ding, W., “Effects of glycine and current density on the mechanism of electrodeposition, composition and properties of Ni-Mn films prepared in ionic liquid”, (2016), *Applied Surface Science*, 365, 31-37.
- 1015.** Kaassis, A.Y.A., Wei, M., Williams, G.R., “New biocompatible hydroxy double salts and their drug delivery properties”, (2016), *Journal of Materials Chemistry B*, 4, (35), 5789-5793.
- 1016.** Ji S.Y., Liang S.H., Song K.X., Li H.X., Li Z., “Effects of lanthanum on the microstructure, electrochemical behavior, and anti-corrosion properties of zinc–copper–titanium alloy in 3% sodium chloride solution”, (2016), *Materials and Corrosion*, DOI: 10.1002/maco.201609159.
- 285. Dobrovolska, Ts.,** Veleva, L., **Krastev, I.**, Zielonka, A.. Composition and structure of silver-indium alloy coatings electrodeposited from cyanide electrolytes. *Journal of the Electrochemical Society*, 152, 3, 2005, ISSN:134651, DOI:10.1149/1.1859811, C137-C142

Цумура се в:

- 1017.** Golvano-Escobal, I., Gonzalez-Rosillo, J.C., Domingo, N., Illa, X., Lopez-Barberá, J.F., Fornell, J., Solsona, P., Aballe, L., Foerster, M., Surinäch, S., Baro, M.D., Puig, T., Pané, S., Nogués, J., Pellicer, E., Sort, J., Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks, *Scientific Reports*, 6, 2016
- 1018.** Larrazábal, G. O., Martín, A. J., Mitchell, S., Hauert, R., & Pérez-Ramírez, J. (2016). Synergistic effects in silver–indium electrocatalysts for carbon dioxide reduction. *Journal of Catalysis*, Volume 343, November 2016, Pages 266–277
- 1019.** Golvano-Escobal, Irati; de Dios Sirvent, Juan; Ferran-Marqués, Marta; Surinach, Santiago; Baro, Maria Dolors; Pané, Salvador; Sort, Jordi; Pellicer, Eva, Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure, *Materials&Design*, 2016, ISSN/ISBN 0264-1275, doi: 10.1016/ j.matdes.2016.11.088
- 286. Kashchiev, D.** Moments of the rate of nonstationary nucleation. *Journal of Chemical Physics*, 122, 11, page 93/197

Цумура се в:

1020. L'vov, P. E., and V. V. Svetukhin. "Simulation of the early stage of binary alloy decomposition, based on the free energy density functional method." *Physics of the Solid State* 58.7 (2016): 1432-1439.
287. Avramov, I., Vassilev, T., Penkov, I.. The glass transition temperature of silicate and borate glasses. *Journal of Non-Crystalline Solids*, 351, 7-Jun, 2005, ISSN:223093, DOI:10.1016/j.jnoncrysol.2005.01.044, 472-476. ISI IF:1.766

Цумура се в:

1021. Jabraoui, H; Vaills, Y; Hasnaoui, A; Badawi, M; Ouaskit, S, *JOURNAL OF PHYSICAL CHEMISTRY B*, 120 (51):13193-13205; 10.1021/acs.jpcc.6b09664 DEC 29 2016
1022. MOJY Hunault, L Galois, G Lelong, M Newville, Georges Calas- *Journal of Non-Crystalline* 44 (2016)
1023. P Jha, SS Danewalia, K Singh - *Journal of Thermal Analysis and Calorimetry* 1-10 (2016) doi:10.1007/s10973-016-6013-6
1024. Jha, P., Danewalia, S.S. & Singh, K. Influence of thermal stability on dielectric properties of SiO<sub>2</sub>-K<sub>2</sub>O-CaO-MgO glasses *J Therm Anal Calorim* (2016). doi:10.1007/s10973-016-6013-6
1025. Johnson, L.E., Sushko, P.V., Tomota, Y., Hosono, H., *Proceedings of the ational Academy of Sciences of the United States of America*, 113 ( 36 ) (2016) pp. 10007 - 10012 .
1026. S. S. Danewalia, Influence of thermal stability on dielectric properties of SiO<sub>2</sub>-K<sub>2</sub>O-CaO-MgO glasses, *Journal of Thermal Analysis and Calorimetry* · December 2016
1027. Comeau, P. A., and M. J. Filiaggi. "Structural analysis of xSrO-(50- x) CaO-50P<sub>2</sub>O<sub>5</sub> glasses with x = 0, 5, or 10mol% for potential use in a local delivery system for osteomyelitis treatment." *Materials Science and Engineering: C* 58 (2016): 639-647.
1028. Hunault, Myrtille O. J. Y.; Galois, Laurence; Lelong, Gerald; Newville, Matt; Calas, Georges, *JOURNAL OF NON-CRYSTALLINE SOLIDS*, 451 101-110; SI 10.1016/j.jnoncrysol.2016.06.025 NOV 1 2016
1029. Abo-Mosallam, H.A., Salama, S.N., Salman, S.M, *Ceramics - Silikaty* 60, Issue 4, (2016), Pages 263-272
1030. Kaur, A., Khanna, A., González, F., Pesquera, C., Chen, B., *Journal of Non-Crystalline Solids*, 444 pp. 1 – 10 (2016)
1031. Ghosh, D., Wiest, A., Conner, R.D., *Journal of the European Ceramic Society*, 36 ( 3 ) pp. 781 - 789 . (2016)
288. Penkova, A., Gliko, O., Dimitrov, I.L., Hodjaoglu, F.V., Nanev, C., Vekilov, P.G.. Enhancement and suppression of protein crystal nucleation due to electrically driven convection. *Journal of Crystal Growth*, 275, 2-Jan, 2005, ISSN:220248, DOI:10.1016/j.jcrysgr.2004.11.186, e1527-e1532. SJR:0.772, ISI IF:1.698

Цумура се в:

1032. Koizumi, H., Uda, S., Fujiwara, K., Tachibana, M., Kojima, K. and Nozawa, J., *Technique for High-Quality Protein Crystal Growth by Control of Subgrain Formation under an External Electric Field*, *Crystals* 6, 95

**1033.** Takeda, Y., Mafuné, F., Induction of protein crystallization by platinum nanoparticles, *Chemical Physics Letters* 647, 181-184

**289.** Valova, E., Dille, J., Armyanov, S., Georgieva, J., Tatchev, D., Marinov, M., Delplancke, J.-L., Steenhaut, O., Hubin, A.. Interface between electroless amorphous Ni-Cu-P coatings and Al substrate. *Surface and Coatings Technology*, 190, 3-Feb, 2005, ISSN:2578972, DOI:10.1016/j.surfcoat.2004.03.050, 336-344

Цумура се в:

**1034.** W. A. Badawy, S. A. Fadi-Allah, A. M. Fathi, Influence of Ni–Cu–P Deposits on the Surface Characteristics of Anodized Al, Al2014 and Al7075, *Zeitschrift für Physikalische Chemie*, 230, (1) 35-50 (2016).

**290.** Krug, J., Tonchev, V., Stoyanov, S., Pimpinelli, A.. Scaling properties of step bunches induced by sublimation and related mechanisms. *Physical Review B - Condensed Matter and Materials Physics*, 71, 4, 2005, ISSN:10980121, DOI:10.1103/PhysRevB.71.045412

Цумура се в:

**1035.** Yuan Li, Xuejiang Chen, Juan Su, Study on formation of step bunching on 6H-SiC (0001) surface by Kinetic Monte Carlo Method, *Applied Surface Science* 371, (2016) 242 – 247.

---

## 2006

---

**291.** Penkova, A., Pan, W., Hodjaoglu, F., Vekilov, P. G.. Nucleation of protein crystals under the influence of solution shear flow. *Annals of the New York Academy of Sciences*, 1077, 1, The New York Academy of Sciences, 2006, ISSN:1749-6632, 214-231. ISI IF:4.383

Цумура се в:

**1036.** Yan, Fei, et al. "Scale Formation and Control Under Turbulent Conditions." *SPE International Oilfield Scale Conference and Exhibition*. Society of Petroleum Engineers, 2016.

**1037.** Yan, Fei, et al. "Barite scale formation and inhibition in laminar and turbulent flow: A rotating cylinder approach." *Journal of Petroleum Science and Engineering* (2016).

**1038.** Mura, Federica, and Alessio Zaccane. "Non-monotonic shear-enhancement of phase nucleation in sheared metastable liquids." *arXiv preprint arXiv:1601.05599* (2016).

**1039.** Mura, Federica, and Alessio Zaccane. "Effects of shear flow on phase nucleation and crystallization." *Physical Review E* 93.4 (2016): 042803.

**1040.** Koizumi, Haruhiko, et al. "Technique for High-Quality Protein Crystal Growth by Control of Subgrain Formation under an External Electric Field." *Crystals* 6.8 (2016): 95.

**292.** Milchev, A., Zapryanova, T.. Nucleation and growth of copper under combined charge transfer and diffusion limitations-Part II. *Electrochimica Acta*, 51, 23, 2006, ISSN:00134686, DOI:10.1016/j.electacta.2006.01.030, 4916-4921. SJR:1.391

Цумура се в:

**1041.** Schiavi, P.G., Altimari, P., Zannoni, R., Pagnanelli, F., Morphology-controlled synthesis of cobalt nanostructures by facile electrodeposition: transition from hexagonal nanoplatelets to nanoflakes, *Electrochimica Acta*, 220 ( 2016) 405-416.

**1042.** Altimari, P., Pagnanelli, F., Electrochemical nucleation and three-dimensional growth of metal

nanoparticles under mixed kinetic-diffusion control: model development and validation, *Electrochimica Acta*. 206 ( 2016) 116-126.

**1043.** Altimari, P., Pagnanelli, F., Electrochemical nucleation and three-dimensional growth under mixed kinetic-diffusion control: Analytical approximation of the current transient, *Electrochimica Acta*, 205 ( 2016) 113-117.

**1044.** Taguchi, M., Schwalb, N., Rong, Y., (...), Claussen, J.C., McLamore, E.S., PulSED: Pulsed sonoelectrodeposition of fractal nanoplatinum for enhancing amperometric biosensor performance, *Analyst*, 141 (11) ( 2016) 3367-3378.

**1045.** Dukštienė, N., Sinkevičiūtė, D., Tatariškinaitė, L., Electrochemical behavior of SeO<sub>2</sub> in sodium citrate solution on a polycrystalline SnO<sub>2</sub> electrode, *Journal of Solid State Electrochemistry*, 20 (3) ( 2016) 813-825.

**293. Stoyanova, E., Nikolova, D., Stoychev, D.,** Stefanov, P., Marinova, T.. Effect of Al and Ce oxide layers electrodeposited on OC4004 stainless steel on its corrosion characteristics in acid media. *Corrosion Science*, 48, 12, Elsevier, 2006, ISSN:0010-938X, DOI:10.1016/j.corsci.2006.04.008, 4037-4052. SJR:1.772, ISI IF:4.422

*Цитира се в:*

**1046.** Appl. Phys. A (2016) 122:1030 DOI 10.1007/s00339-016-0563-0 Preparation of multi-functional superhydrophobic lanthanum surface on carbon steel via facile electrochemical method Xi Chen, Yi He, Yi Fan, Qiangbin Yang, Han Li Chen, X., He, Y., Fan, Y. et al. *Appl. Phys. A* (2016) 122: 1030. doi:10.1007/s00339-016-0563-0

**1047.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

**294. Avramova, K, Milchev, A.** Polymer chains in a soft nanotube: A Monte Carlo Study. *JOURNAL OF CHEMICAL PHYSICS*, 124, 2, 2006, SJR:2.169

*Цитира се в:*

**1048.** Mirzaeifard, S., Abel, S.M. Confined semiflexible polymers suppress fluctuations of soft membrane tubes (2016) *Soft Matter*, 12 (6), pp. 1783-1790. 10.1039/c5sm02556g

**1049.** Confined semiflexible polymers suppress fluctuations of soft membrane tubes By: Mirzaeifard, Sina; Abel, Steven M. *SOFT MATTER* Volume: 12 Issue: 6 Pages: 1783-1790 Published: 2016

**1050.** Study on the diffusion of polymer in long cylindrical tubes By: Luo, Meng-Bo; Yang, Qing-Hui; Zhang, Chun-Ying; et al. *POLYMER* Volume: 101 Pages: 192-198 Published: SEP 28 2016

**295. Koleva, D.A., Hu, J., Fraaij, A.L.A., Stroeven, P., Boshkov, N., de Wit, J.H.W..** Quantitative characterisation of steel/cement paste interface microstructure and corrosion phenomena in mortars suffering from chloride attack. *Corrosion Science*, 48, 12, 2006, ISSN:0010938X, DOI:10.1016/j.corsci.2006.03.003, 4001-4019

*Цитира се в:*

**1051.** Medina, C., De Rojas S., M.I., Thomas, C., Polanco, J.A., Frías, M., “Durability of recycled concrete made with recycled ceramic sanitary ware aggregate. Inter-indicator relationships”, (2016), *Construction and Building Materials*, 105, 480-486.

**1052.** Romero J.D.M., “Efecto del ambiente Marino en edificios de segunda residencia en la costa valenciana. Influencia del crecimiento urbanístico y sistemas constructivos”, (“Effect of the marine environment on buildings of second residence on the Valencian coast. Influence of urban



growth and construction systems”), (2016), Universitat Politècnica de València, PhD Thesis, p. 7.27.

**1053.** Pacheco, J., Çopuroğlu, O., “Quantitative energy-dispersive X-ray microanalysis of chlorine in cement paste”, (2016), Journal of Materials in Civil Engineering, 28. (1), art. No. 04015065.

**1054.** Nazrazdani S., Nagulakonda V.V., Barnes J., Garcia A., Al-Shenawa A., D’Souza N.A., “Effects of Heat Treatment Processes on Corrosion Resistance of Epoxy-Coated Rebar Steel”, (2016), Journal of failure Analysis and Prevention, 16, (5), 896-901.

**1055.** Michel A., Lepech M., Stang H., Geiker M.R., “Multi-physical and multi-scale deterioration modelling of reinforced concrete: modelling corrosion-induced concrete damage”, (2016), 9-th International Conference on Fracture Mechanics of Concrete and Concrete Structures FraMCoS-9,

**1056.** Shi J., Geng G., Ming J., “Corrosion resistance of fine-grained rebar in mortars designed for high-speed railway construction”, (2016), European Journal of Environmental and Civil Engineering, <http://dx.doi.org/10.1080/19648189.2016.1210035>

**296.** Avramova, I., **Stoychev, D.**, Marinova, Ts.. Characterization of a thin CeO<sub>2</sub>-ZrO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> films electrochemical deposited on stainless steel. Applied Surface Science, 253, 3, Elsevier, 2006, ISSN:1694332, DOI:10.1016/j.apsusc.2006.02.011, 1365-1370. ISI IF:2.711

Цитира се в:

**1057.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

**297.** **Пиева, М., Tsakova, V.**, Erfurth, W.. "Electrochemical formation of bi-metal (copper-palladium) electrocatalyst supported on poly-3,4-ethylenedioxythiophene". Electrochimica Acta, 52, 3, 2006, ISSN:134686, DOI:10.1016/j.electacta.2006.06.015, 816-824

Цитира се в:

**1058.** V.V. Kondratiev, V.V. Malev, S.N. Eliseeva “Composite electrode materials based on conducting polymers loaded with metal nanostructures”, Russian Chemical Reviews 85 (2016) 14-37, DOI 10.1070/RCR4509

**1059.** S. Ponnurangam, I.V. Chernyshova, P. Somasundaran “Nitrogen-containing polymers as a platform for CO<sub>2</sub> electroreduction” Advances in Colloid and Interface Science (2016), doi: 10.1016/j.cis.2016.09.002

**1060.** S. Tabatabaei Rezaei, “PEDOT nanofiber/Pd(0) composite-mediated aqueous Mizoroki–Heck reactions under ultrasonic irradiation: an efficient and green method for the C–C cross-coupling reactions” J Iran Chem.Soc. (2016). doi:10.1007/s13738-016-1007-7

**1061.** V.T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016

**298.** **Nikolova, D., Stoyanova, E., Stoychev, D.**, Stefanov, P., Marinova, T.. Anodic behaviour of stainless steel covered with an electrochemically deposited Ce<sub>2</sub>O<sub>3</sub>-CeO<sub>2</sub> film. Surface and Coatings Technology, 201, 4-Mar, 2006, ISSN:2578972, DOI:10.1016/j.surfcoat.2006.02.026, 1559-1567. SJR:0.872, ISI IF:2.139

Цитира се в:

**1062.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на

299. Kurniawan, F., **Tsakova, V.**, Mirsky, V.M.. Gold nanoparticles in nonenzymatic electrochemical detection of sugars. *Electroanalysis*, 18, 19-20, 2006, ISSN:10400397, DOI:10.1002/elan.200603607, 1937-1942

Цитира се в:

1063. Q. Wang, Carbon-base materials: Application in electrochemical sensing, PhD Thesis, Universite de Lille, France, 2016
1064. R. A. Soomro, Z. H. Ibupoto, Sirajuddin, S.T.H. Sherazi, M.I. Abro, M. Willander, Practice of diclofenac sodium for the hydrothermal growth of NiO nanostructures and their application for enzyme free glucose biosensor, *Microsyst. Technol.* 22 (2016) 2549-2557
1065. A. L. Rinaldi, L. Carballo, Impedimetric non-enzymatic glucose sensor based on nickel hydroxide thin film onto gold electrode, *Sensors and Actuators B: Chemical* 228 (2016) 43 – 52.
1066. T. V. Shishkanova, P. Fitl, V. Kral, J. Barek, Nanoparticles functionalized with phenylboronic acid for the potentiometric detection of saccharides, *J. Electroanal. Chem.* 761 (2016), 106 – 111.
1067. Y. Luo, F.-Y. Kong, C. Li, J.-J. Shi, W.-X. Lv, W. Wang One-pot preparation of reduced graphene oxide-carbon nanotube decorated with Au nanoparticles based on protein for non-enzymatic electrochemical sensing of glucose, *Sensors and Actuators B: Chemical*, 234, (2016) 625 – 632.
1068. S.D. Bukkitgar, N.P. Shetti, Electrochemical Sensor for the Determination of Anticancer Drug 5-Fluorouracil at Glucose Modified Electrode, *Chemistry Select*, 1, (2016) 771 – 777.
1069. L.B.Gulina, A.A. Pchelkina, K.G. Nikolaev, D.V. Navolotskaya, S.S. Ermakov, V.P.Tolstoy, A brief review on immobilization of gold nanoparticles on inorganic surfaces and Successive Ionic Layer Deposition, *Reviews on Advanced Materials Science*, 44 (2016) 46-53.
1070. S. Springhetti, Nanoparticelle d'oro e tecniche NMR: dallo studio della Formazione del Monostrato all'Interazione Molecolare. Ph.D. Thesis, Padua, (2016).
300. Koleva, D.A., Hu, J., Fraaij, A.L.A., Stroeven, P., **Boshkov, N.**, van Breugel, K.. Cathodic protection revisited: Impact on structural morphology sheds new light on its efficiency. *Cement and Concrete Composites*, 28, 8, 2006, ISSN:9589465, DOI:10.1016/j.cemconcomp.2006.05.009, 696-706

Цитира се в:

1071. Byrne, A., Norton, B., Holmes, N., “State-of-the-art review of cathodic protection for reinforced concrete structures”, (2016), *Magazine of Concrete Research*, 68, (13), 664-677.
1072. Zuo, J., Yao, W., Xu, J., Chen, Y., and Liu, X. "Effects of Carbon Nanotube-Carbon Fiber Cementitious Conductive Anode for Cathodic Protection of Reinforced Concrete, " (2016), *Journal of Testing and Evaluation*, 45, (5), published online <https://doi.org/10.1520/JTE20160062>
301. Dimitrov, D.I., **Milchev, A.**, Binder, K., Heermann, D.W.. Structure of polymer brushes in cylindrical tubes: A molecular dynamics simulation. *Macromolecular Theory and Simulations*, 15, 7, 2006, ISSN:10221344, DOI:10.1002/mats.200600029, 573-583

Цитира се в:

1073. Netopilík, M., Janata, M., Svitáková, R., Trhlíková, O., Berek, D., Macova, E., Limpouchová, Z., Procházka, K. Chromatographic study of the conformational behavior of graft copolymers

with a broad distribution of grafting densities in dilute solutions in selective solvents for grafts (2016) Journal of Liquid Chromatography and Related Technologies, 39 (1), pp. 50-58. 10.1080/10826076.2015.1126727

- 302. Kashchiev, D.** Analysis of experimental data for the nucleation rate of water droplets. Journal of Chemical Physics, 125, 4, 2006, ISSN:219606, DOI:10.1063/1.2222373

Цитира се в:

- 1074.** Schlesinger, Daniel, et al. "Evaporative cooling of microscopic water droplets in vacuo: Molecular dynamics simulations and kinetic gas theory." The Journal of chemical physics 144.12 (2016): 124502.
- 1075.** Němec, Tomáš. "Homogeneous bubble nucleation in binary systems of liquid solvent and dissolved gas." Chemical Physics 467 (2016): 26-37.
- 1076.** Wilms, Henrike. Microphysics of ice particles in the polar summer mesosphere. Diss. Imu, 2016.

- 303. Kashchiev, D.** Forms and applications of the nucleation theorem. Journal of Chemical Physics, 125, 1, 2006, ISSN:219606, DOI:10.1063/1.2210483

Цитира се в:

- 1077.** Khan, Jamal, Thomas Rades, and Ben Boyd. "The precipitation behavior of poorly water-soluble drugs with an emphasis on the digestion of lipid based formulations." Pharmaceutical research 33.3 (2016): 548-562.
- 1078.** Menzl, Georg, and Christoph Dellago. "Effect of entropy on the nucleation of cavitation bubbles in water under tension." The Journal of Chemical Physics 145.21 (2016): 211918.
- 1079.** Perepezko, J. H., and G. Wilde. "Melt undercooling and nucleation kinetics." Current Opinion in Solid State and Materials Science 20.1 (2016): 3-12.
- 1080.** Bruot, Nicolas, and Frédéric Caupin. "Curvature Dependence of the Liquid-Vapor Surface Tension beyond the Tolman Approximation." Physical review letters 116.5 (2016): 056102.
- 1081.** Wyslouzil, Barbara E., and Judith Wölk. "Overview: Homogeneous nucleation from the vapor phase—The experimental science." The Journal of Chemical Physics 145.21 (2016): 211702.
- 1082.** Haqshenas, S. R., I. J. Ford, and N. Saffari. "Modelling the effect of acoustic waves on nucleation." The Journal of Chemical Physics 145.2 (2016): 024315.
- 1083.** ТИПЕЕВ АЗАТ ОЛЕГОВИЧ, ЖИДКОСТИ, КРИСТАЛЛИЗАЦИЯ ПЕРЕОХЛАЖДЕННОЙ, and В. МОЛЕКУЛЯРНО-ДИНАМИЧЕСКИХ МОДЕЛЯХ, (2016)

- 304. Radeva, T., Kamburova, K., Petkanchin, I.** Formation of polyelectrolyte multilayers from polysaccharides at low ionic strength. Journal of Colloid and Interface Science, 298, 1, 2006, ISSN:219797, DOI:10.1016/j.jcis.2005.12.010, 59-65

Цитира се в:

- 1084.** Silva, J.M, Reis, R.L., Mano, J.F., Biomimetic Extracellular Environment Based on Natural Origin Polyelectrolyte Multilayers, Small 4308-4342 (2016)

- 305. Exerowa, D., Kolarov, T., Pigov, I., Levecke, B., Tadros, T.** Interaction forces in thin liquid films stabilized by hydrophobically modified inulin polymeric surfactant. 1. foam films. Langmuir, 22, 11, 2006, ISSN:7437463, DOI:10.1021/la0600301, 5013-5017

Цитира се в:

**1085.** Aricov, Ludmila; Petkova, Hristina; Arabadzhieva, Dimitrinka; Iovescu, A ; Mileva, E; Khristov, K; Stinga, G; Mihailescu, CF ; Anghel, DF; Todorov, R., Aqueous solutions of associative poly(acrylates): Bulk and interfacial, *Colloids & Surfaces A*, 505 (2016)138-149

**306. Boshkov, N.,** Petrov, K., Raichevski, G.. Corrosion behavior and protective ability of multilayer Galvanic coatings of Zn and Zn-Mn alloys in sulfate containing medium. *Surface and Coatings Technology*, 200, 20-21, 2006, ISSN:2578972, DOI:10.1016/j.surfcoat.2005.10.002, 5995-6001

*Цумура се в:*

**1086.** Timma, C., Lostak, T., Janssen, S., Flock, J., Mayer, C., “Surface investigation and tribological mechanism of a sulfate-based lubricant deposited on zinc-coated steel sheets”, (2016), *Applied Surface Science*, 390, 784-794.

**1087.** Cross, S.R., Schuh, C.A., “Ternary alloying additions and multilayering as strategies to enhance the galvanic protection ability of Al-Zn coatings electrodeposited from ionic liquid solution”, (2016), *Electrochimica Acta*, 211, 860-870.

**1088.** Kazimierzak, H., Hara, A., Bigos, A., Ozga, P., “Electrodeposition of Zn-Mn-Mo layers from citrate-based aqueous electrolytes”, (2016), *Electrochimica Acta*, 202, 110-121.

**1089.** Guo, J., Guo, X., Wang, S., Zhang, Z., Dong, J., Peng, L., Ding, W., “Effects of glycine and current density on the mechanism of electrodeposition, composition and properties of Ni-Mn films prepared in ionic liquid”, (2016), *Applied Surface Science*, 365, 31-37.

**1090.** Abou-Krishna, M.M., Assaf, F.H., Alduaij, O.K. et al., “Deposition Potential Influence on the Electrodeposition of Zn–Ni–Mn Alloy”, (2016), *Transactions of the Indian Institute of Metals*, doi:10.1007/s12666-016-0859-y.

**1091.** Close, D., Stein, N., Allain, N., Tidu, A., Drynski, E., Merklein, M., Lallement, R., “Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings”, (2016), MA2016-01, 229-th ECS Meeting, San Diego, CA, Meeting Abstract.

**307. Leung, Y.P.,** Choy, W.C.H., **Markov, I.**, Pang, G.K.H., Ong, H.C., Yuk, T.I.. Synthesis of wurtzite ZnSe nanorings by thermal evaporation. *Applied Physics Letters*, 88, 18, 2006, ISSN:36951, DOI:10.1063/1.2200155

*Цумура се в:*

**1092.** Zhang, Xiwei, et al. "Bismuth-catalyzed and doped p-type ZnSe nanowires and their temperature-dependent charge transport properties." *Journal of Materials Chemistry C* 4.4 (2016): 857-862.

**1093.** Li, Xiuyan, et al. "Synthesis and comparison of the photocatalytic activities of ZnSe (en) 0.5, ZnSe and ZnO nanosheets." *Journal of Alloys and Compounds* 689 (2016): 287-295.

**1094.** Safaei, B., P. Naseradinmousavi, and A. Rahmani. "Development of an accurate molecular mechanics model for buckling behavior of multi-walled carbon nanotubes under axial compression." *Journal of Molecular Graphics and Modelling* 65 (2016): 43-60.

**308. Nanev, C.N.,** **Dimitrov, I.**, Tsekova, D.. Adhesion of protein crystals: Measurement of the detachment force. *Crystal Research and Technology*, 41, 5, 2006, ISSN:2321300, DOI:10.1002/crat.200510613, 505-509

*Цумура се в:*

**1095.** Suzuki, R., Kishi, T., Tsukashima, S., Tachibana, M., Wako, K., Kojima, K., Hardness and slip systems of orthorhombic hen egg-white lysozyme crystals, *Philosophical Magazine* 96, 2930-2942

309. Schmelzer, J.W.P., Zanotto, E.D., **Avramov, I.**, Fokin, V.M.. Stress development and relaxation during crystal growth in glass-forming liquids. *Journal of Non-Crystalline Solids*, 352, 5, 2006, ISSN:223093, DOI:10.1016/j.jnoncrysol.2006.01.016, 434-443

Цитира се в:

1096. Kajetan Koperwas, Karolina Adrjanowicz, Zaneta Wojnarowska, *Scientific Reports* 11/2016; 6. DOI:10.1038/srep36934

310. **Kashchiev, D.** Dependence of the growth rate of nanowires on the nanowire diameter. *Crystal Growth and Design*, 6, 5, 2006, ISSN:15287483, DOI:10.1021/cg050619i, 1154-1156

Цитира се в:

1097. Zhang, Yunyan, et al. "Influence of Droplet Size on the Growth of Self-Catalyzed Ternary GaAsP Nanowires." *Nano letters* 16.2 (2016): 1237-1243.

1098. Gao, Qian, et al. "Simultaneous selective-area and vapor-liquid-solid growth of InP nanowire arrays." *Nano letters* 16 (7) (2016) 4361–4367

1099. Balaghi, Leila, et al. "Droplet-confined alternate pulsed epitaxy of GaAs nanowires on Si substrates down to CMOS-compatible temperatures." *Nano letters* 16.7 (2016): 4032-4039.

311. Grbić, B., Radić, N., Marković, B., Stefanov, P., **Stoychev, D.**, Marinova, Ts.. Influence of manganese oxide on the activity of Pt/Al<sub>2</sub>O<sub>3</sub> catalyst for CO and n-hexane oxidation. *Applied Catalysis B: Environmental*, 64, 2-Jan, Elsevier, 2006, ISSN:9263373, DOI:10.1016/j.apcatb.2005.11.001, 51-56. ISI IF:7.435

Цитира се в:

1100. ИССЛЕДОВАНИЕ КИНЕТИКИ ОКИСЛЕНИЯ БУТАНА НА Mn-La-ALSi БЛОЧНОМ КАТАЛИЗАТОРЕ STUDY OXIDATION KINETICS OF BUTANE OF Mn-La-ALSi BLOCK CATALYSTS Гаврилова А.А., Яшник С. А. Журнал Вестник Кузбасского государственного технического университета Выпуск № 1 (113) / 2016 Указанные автором: УДК:544.42.032 Научная библиотека КиберЛенинка: <http://cyberleninka.ru/article/n/issledovanie-kinetiki-okisleniya-butana-na-mn-la-alsi-blochnom-katalizatore#ixzz4AEddI9NM>

312. Komsijska, L., **Tsakova, V.** Ascorbic acid oxidation at nonmodified and copper-modified polyaniline and poly-ortho-methoxyaniline coated electrodes. *Electroanalysis*, 18, 8, 2006, ISSN:10400397, DOI:10.1002/elan.200503464, 807-813

Цитира се в:

1101. Dmitrii Pankratov, Self-charging biosupercapacitors, Doctoral Dissertation, Malmoe University, Swede, 2016

313. Ivanov, S., **Tsakova, V.**, Mirsky, V.M.. Conductometric transducing in electrocatalytical sensors: Detection of ascorbic acid. *Electrochemistry Communications*, 8, 4, 2006, ISSN:13882481, DOI:10.1016/j.elecom.2006.02.006, 643-646

Цитира се в:

1102. P. Krzyczmonik, E. Socha, G. Andrijewski, Determination of Ascorbic Acid by a Composite-Modified Platinum Electrode, *Anal. Lett.* (2016), DOI:10.1080/00032719.2016.1201096

314. **Rashkov, R.**, Atanassov, N., Jannakoudakis, A., Jannakoudakis, P., Theodoridou, E.. Structure and

electrocatalytic activity of Ni-W thin films deposited on carbon fiber supports. Journal of the Electrochemical Society, 153, 3, 2006, ISSN:134651, DOI:10.1149/1.2163812, C152-C156

Цумура се в:

**1103.** Ni-W electrodeposited coatings: Characterization, properties and applications

- 315.** Krasowska, M., Hristova, E., Khristov, Khr., Malysa, K., **Exerowa, D.** "Isoelectric state and stability of foam films, bubbles and foams from PEO-PPO-PEO triblock copolymer (P85)". Colloid and Polymer Science, 284, 5, 2006, ISSN:0303402X, DOI:10.1007/s00396-005-1377-3, 475-481

Цумура се в:

**1104.** Chen, Shuyan; Zhou, Yujie; Wang, Gehua; et al., Influence of Foam Apparent Viscosity and Viscoelasticity of Liquid Films on Foam Stability, J.Disp. Sci.Technol., 37 4 (2016) 479-485

- 316.** **Georgieva, J., Arnyanov, S., Valova, E.,** Poullos, I., Sotiropoulos, S.. Preparation and photoelectrochemical characterisation of electrosynthesised titanium dioxide deposits on stainless steel substrates. Electrochimica Acta, 51, 10, 2006, ISSN:134686, DOI:10.1016/j.electacta.2005.07.017, 2076-2087

Цумура се в:

**1105.** E. L. Castellanos-Leal, P. Acevedo-Peña, L. Lartundo-Rojas, E. M. Córdoba-Tuta, Directing photocatalytic and photoelectrocatalytic performance of TiO<sub>2</sub>, J. Sol-Gel Sci. & Techn., 80, 462–473 (2016)

**1106.** F. J. Mancilla, S. F. Rojas Vargas, A. F.Gualdrón, M. I.I Carreño Lizcano, L. J. Duarte Correa, M.E. Niño-Gómez, Improving the photoelectrocatalytic performance of boron modified TiO<sub>2</sub>/Ti sol-gel based electrodes for glycerol oxidation under visible illumination, RSC Adv., 6, 46668-46677 (2016) DOI: 10.1039/C6RA02806C

**1107.** R. R. M. de Sousa, F. O. de Araújo, J. A. P. da Costa, A. Nishimoto, B. C. Viana, C. Alves Jr., Deposition of TiO<sub>2</sub> Film on Duplex Stainless Steel Substrate Using the Cathodic Cage Plasma Technique, Materials Research, 19 (5) 1207-1212 (2016)

- 317.** Koleva D., Hu J., Van Breugel K., De Wit J.H.W, **Boshkov N.** Conventional and Pulse Cathodic Protection of Reinforced Concrete: Electrochemical Approach and Microstructural Investigations. Electrochemical Society Transactions, 1, 4, 2006, 287-298

Цумура се в:

**1108.** Abbas, Y., de Graaf, D.B., Olthuis, W., van den Berg, A., "Dynamic electrochemical measurement of chloride ions", (2016), Journal of Visualized Experiments, 2016 (108), art. No. e53312.

- 318.** **Milchev, A.,** Zapryanova, T.. Nucleation and growth of copper under combined charge transfer and diffusion limitations: Part i. Electrochimica Acta, 51, 14, 2006, ISSN:0013-4686, DOI:10.1016/j.electacta.2005.08.045, 2926-2933. SJR:1.391

Цумура се в:

**1109.** Schiavi, P.G., Altimari, P., Zanoni, R., Pagnanelli, F., Morphology-controlled synthesis of cobalt nanostructures by facile electrodeposition: transition from hexagonal nanoplatelets to nanoflakes, Electrochimica Acta, 220 ( 2016) 405-416.

**1110.** Aguirre, M.D.C., Núñez Coavas, H., Fabietti, L.M., Urreta, S.E., Nucleation and growth mechanisms in Cu-Co films, Journal of Physical Chemistry C, 120 (39) ( 2016)22142-22154.

1111. Isaev, V.A., Grishenkova, O.V., Zaykov, Y.P., Analysis of the geometrical–probabilistic models of electrocrystallization, Russian Metallurgy (Metally), 2016 (8) ( 2016) 776-784.
1112. Altimari, P., Pagnanelli, F., Electrochemical nucleation and three-dimensional growth of metal nanoparticles under mixed kinetic-diffusion control: model development and validation, Electrochimica Acta, 206 (2016) 116-126.
1113. Altimari, P., Pagnanelli, F., Electrochemical nucleation and three-dimensional growth under mixed kinetic-diffusion control: Analytical approximation of the current transient, Electrochimica Acta, 205( 2016) 113-117.
1114. Taguchi, M., Schwalb, N., Rong, Y., Claussen, J.C., McLamore, E.S., PulsED: Pulsed sonoelectrodeposition of fractal nanoplatinum for enhancing amperometric biosensor performance, Analyst, 141 (11) ( 2016) 3367-3378.

319. **Milchev, A.** Polymer brushes in cylindrical pores: simulation versus scaling theory. 2006

Цумура се в:

1115. Netopilík, M., Janata, M., Svitáková, R., Trhlíková, O., Berek, D., Macova, E., Limpouchová, Z., Procházka, K. Chromatographic study of the conformational behavior of graft copolymers with a broad distribution of grafting densities in dilute solutions in selective solvents for grafts (2016) Journal of Liquid Chromatography and Related Technologies, 39 (1), pp. 50-58. 10.1080/10826076.2015.1126727

---

2007

---

320. A. Corsi, **A. Milchev**, Rostiashvili, V.G., Vilgis, T.A.. Interface stability and copolymers: Application to food systems.. 2007

Цумура се в:

1116. Bouaziz, F., Koubaa, M., Ellouz Ghorbel, R., Ellouz Chaabouni, S. Recent advances in Rosaceae gum exudates: From synthesis to food and non-food applications (2016) International Journal of Biological Macromolecules, 86, pp. 535-545. 10.1016/j.ijbiomac.2016.01.081

321. **Dobrovolska, Ts.**, Jovic, V.D., Jovic, B.M., **Krastev, I.** Phase identification in electrodeposited Ag-In alloys by ALSV technique. Journal of Electroanalytical Chemistry, 611, 2-Jan, 2007, ISSN:220728, DOI:10.1016/j.jelechem.2007.09.002, 232-240

Цумура се в:

1117. Fedi, B., Gigandet, M.P., Hihn, J.-Y., Mierzejewski, S., Structure determination of electrodeposited zinc-nickel alloys: thermal stability and quantification using XRD and potentiodynamic dissolution, Electrochimica Acta, 215, 652-666, 2016

322. Nedyalkov, M., **Alexandrova, L.**, Platikanov, D., Levecke, B., Tadros, T.. Wetting films on a hydrophilic silica surface obtained from aqueous solutions of hydrophobically modified inulin polymeric surfactant. Colloid and Polymer Science, 285, 15, 2007, ISSN:0303402X, DOI:10.1007/s00396-007-1756-z, 1713-1717

Цумура се в:

1118. Zhang, X., Tchoukov, P., Manica, R., (...), Liu, Q., Xu, Z., Simultaneous measurement of dynamic force and spatial thin film thickness between deformable and solid surfaces by integrated thin liquid film force apparatus, Soft Matter, 12 (44), 2016, pp. 9105-9114, Volume

- 323.** Novaković, T., Radić, N., Grbić, B., **Stoychev, D.**, Stefanov, P., Marinova, T.. Preparation of ZrO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> thin-films on stainless steel by spray pyrolysis. Materials Science Forum, 555, 2007, ISSN:2555476, 321-326. SJR:0.26

Цитира се в:

- 1119.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 324.** Pland, K., Wölk, J., Strey, R., **Kashchiev, D.** Argon nucleation in a cryogenic nucleation pulse chamber. Journal of Chemical Physics, 127, 15, 2007, ISSN:219606, DOI:10.1063/1.2764486

Цитира се в:

- 1120.** Russo, John, and Hajime Tanaka. "Nonclassical pathways of crystallization in colloidal systems." MRS Bulletin 41.05 (2016): 369-374.
- 1121.** Wyslouzil, Barbara E., and Judith Wölk. "Overview: Homogeneous nucleation from the vapor phase—The experimental science." The Journal of Chemical Physics 145.21 (2016): 211702.
- 1122.** Karthika, S., T. K. Radhakrishnan, and Ponnusamy Kalaihelvi. "A Review of Classical and Nonclassical Nucleation Theories." Crystal Growth & Design 16.11 (2016): 6663-6681.
- 1123.** Ferreiro, Jorge J., et al. "Observation of propane cluster size distributions during nucleation and growth in a Laval expansion." The Journal of Chemical Physics 145.21 (2016): 211907.
- 1124.** Russo, John, and Hajime Tanaka. "Crystal nucleation as the ordering of multiple order parameters." The Journal of Chemical Physics 145.21 (2016): 211801.
- 1125.** Parkinson, Jamie Y., Gabriel V. Lau, and Ian J. Ford. "Free energy of formation of clusters of sulphuric acid and water molecules determined by guided disassembly." arXiv preprint arXiv:1603.05848 (2016).
- 1126.** López, David Reguera. "Nucleation phenomena: The non-equilibrium kinetics of phase change." Contributions to science (2016): 173-180.
- 325.** **Todorov, R., Cohen, R., Exerowa, D.** Surface forces in foam films from DPPC and lung surfactant phospholipid fraction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 310, 3-Jan, 2007, ISSN:9277757, DOI:10.1016/j.colsurfa.2007.05.056, 32-38

Цитира се в:

- 1127.** Beltramo P.J., Vermant J. "Simple Optical Imaging of Nanoscale Features in Free-Standing Films" ACS Omega 1 (3): 363–370, 2016
- 326.** **Cohen, R., Exerowa, D.** Surface forces and properties of foam films from rhamnolipid biosurfactants. Advances in Colloid and Interface Science, 134-135, 2007, ISSN:18686, DOI:10.1016/j.cis.2007.04.018, 24-34

Цитира се в:

- 1128.** Salmani Abyaneh, A., Fazelipour, M.H., Evaluation of rhamnolipid (RL) as a biosurfactant for the removal of chromium from aqueous solutions by precipitate flotation, J.Environmental Management, 165 (2016) 184 – 187
- 1129.** Long, Xuwei; Sha, Ruyi; Meng, Qin; et al., Mechanism Study on the Severe Foaming of



327. Christophe, J., **Tsakova, V.**, Buess-Herman, C.. Electroreduction of nitrate at copper electrodes and copper-PANI composite layers. Zeitschrift fur Physikalische Chemie, 221, 10-Sep, 2007, ISSN:9429352, DOI:10.1524/zpch.2007.221.9-10.1123, 1123-1136

Цумура се в:

1130. F. Liu, M. Li, H. Wang. X. Lei, L. Wang, X. Liu, Fabrication and characterization of a Cu-Zn-TiO<sub>2</sub> nanotube array polymetallic nanoelectrode for electrochemically removing nitrate from groundwater, Journal of the Electrochemical Society, 163 (2016), E421-E427
1131. D. Hetemi, C. Combellas, F. Kanoufi, J. Pinson, F.I. Podvorica, Surface modification by electrochemical reduction of alkyldiazonium salts, Electrochem. Commun. 68 (2016) 5-9.
328. Dimitrov, D.I., **Milchev, A.**, Binder, K.. Polymer brushes in solvents of variable quality: Molecular dynamics simulations using explicit solvent. Journal of Chemical Physics, 127, 8, 2007, ISSN:219606, DOI:10.1063/1.2768525

Цумура се в:

1132. Singh, M.K., Ilg, P., Espinosa-Marzal, R.M., Spencer, N.D., Kröger, M. Influence of chain stiffness, grafting density and normal load on the tribological and structural behavior of polymer brushes: A nonequilibrium-molecular-dynamics study (2016) Polymers, 8 (7), art. no. 254 10.3390/polym8070254
1133. Huang, Y., Huang, Q. Comparison of the Accuracy and the Efficiency among Different Molecular Dynamics Methods for Calculating the Viscosity (2016) MATEC Web of Conferences, 77, art. no. 03005 10.1051/mateconf/20167703005
1134. Posel, Z., Posocco, P., Lásal, M., Fermeglia, M., Pricl, S. Highly grafted polystyrene/polyvinylpyridine polymer gold nanoparticles in a good solvent: Effects of chain length and composition (2016) Soft Matter, 12 (15), pp. 3600-3611. 10.1039/c5sm02867a
1135. Varma, S., Bureau, L., Debarre, D. The Conformation of Thermoresponsive Polymer Brushes Probed by Optical Reflectivity (2016) Langmuir, 32 (13), pp. 3152-3163. 10.1021/acs.langmuir.6b00138
1136. De Beer, S., Mensink, L.I.S., Kieviet, B.D. Geometry-Dependent Insertion Forces on Particles in Swollen Polymer Brushes (2016) Macromolecules, 49 (3), pp. 1070-1078. 10.1021/acs.macromol.5b01960
1137. Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew" (2016) Chemistry, 25 (1), pp. 35-67
1138. Singh, M.K., Ilg, P., Espinosa-Marzal, R.M., Kröger, M., Spencer, N.D. Effect of Crosslinking on the Microtribological Behavior of Model Polymer Brushes (2016) Tribology Letters, 63 (2), art. no. 17, 10.1007/s11249-016-0705-8
329. Ergul, S., Akyildiz, M., **Karamanov, A.** Ceramic material from basaltic tuffs. Industrial Ceramics, 27, 2, 2007, ISSN:11217588, 89-94

Цумура се в:

1139. Njoya, D., Elimbi, A., Fouejio, D. and Hajjaji, M., 2016. Effects of two mixtures of kaolin-talc-bauxite and firing temperatures on the characteristics of cordierite-based ceramics. Journal of Building Engineering, 8, pp.99-106.

1140. Andreola, F., Barbieri, L., Lancellotti, I., Leonelli, C. and Manfredini, T., 2016. Recycling of industrial wastes in ceramic manufacturing: State of art and glass case studies. *Ceramics International*. Volume 42, Issue 12, September 2016, Pages 13333–13338
1141. Ogunro, A.S., Apeh, F.I., Nwannenna, O.C. and Peter, A.E., Application of Nkwo-Alaike Clay for the Production of Ceramic Wares Using Cullet as Sintering AID. 2016 *American Journal of Engineering Research (AJER)*, e-ISSN: 2320-0847 p-ISSN : 2320-0936, Volume-5, Issue-2, pp-174-181
330. Milchev, A., Zapryanova, T., Hrussanova, A.. Nucleation and growth of copper on glassy carbon: Studies in extended overpotential interval. *Journal of Electroanalytical Chemistry*, 600, 2, 2007, ISSN:1572-6657, DOI:10.1016/j.jelechem.2006.10.002, 311-317. SJR:0.752

Цумура се в:

1142. Altimari, P., Pagnanelli, F., Electrochemical nucleation and three-dimensional growth of metal nanoparticles under mixed kinetic-diffusion control: model development and validation, *Electrochimica Acta*, 206 (2016) 116-126.
1143. Ustarroz, J., Hubin, A., Terryn, H., New insights in nanoelectrodeposition: An electrochemical aggregative growth mechanism, ( 2016) *Handbook of Nanoelectrochemistry: Electrochemical Synthesis Methods, Properties, and Characterization Techniques*, pp. 1349-1378
331. Kashchiev, D.. "Interrelation between cluster formation time, cluster growth probability, and nucleation rate". *Journal of Chemical Physics*, 127, 6, 2007, ISSN:219606, DOI:10.1063/1.2754269

Цумура се в:

1144. Nicholson, David A., and Gregory C. Rutledge. "Analysis of nucleation using mean first-passage time data from molecular dynamics simulation." *The Journal of chemical physics* 144.13 (2016): 134105.
332. Georgieva, J., Armyanov, S.. Electroless deposition and some properties of Ni-Cu-P and Ni-Sn-P coatings. *Journal of Solid State Electrochemistry*, 11, 7, 2007, ISSN:14328488, DOI:10.1007/s10008-007-0276-6, 869-876

Цумура се в:

1145. Bangwei Zhang, Ch. 9 "Surface Morphologies" in "Amorphous and Nano Alloys Electroless Depositions", 2016, Pages 503-579
1146. Z. Sun, J. Huang, Q. Liu, M. Gao, M. Li, F. Zhao, W. Cheng, B. Tang, Effects of temperature on Ni coating on poly(ethylene terephthalate) substrate modified with primer, *J. Materials Science: Materials in Electronics*, 27, (6) 5892-5898 (2016)
1147. J. N. Balaraju, P. Radhakrishnan, V.Ezhilselvi, A. Anil Kumar, Z. Chen, K. P. Surendran, Studies on electroless nickel polyalloy coatings over carbon fibers/CFRP composites, *Surf. Coat. Techn.*, 302, 389–397 (2016)
1148. J. Huang, Z. Sun, H. Huang, Q. Liu, M. Gao, Effects of pH on Ni coating on poly (ethylene terephthalate) substrate by printing prime in combination with palladium activating, *Surface Review & Letters*, 23, 1650034 (7 pages) (2016)
333. Ranguelov, B., Altman, M.S., Markov, I.. Critical terrace width for step flow growth: Effect of attachment- detachment asymmetry and step permeability. *Physical Review B - Condensed Matter and Materials Physics*, 75, 24, 2007, ISSN:10980121, DOI:10.1103/PhysRevB.75.245419

Цумура се в:

- 1149.** Rogilo, D.I., Rybin, N.E., Kosolobov, S.S., Fedina, L.I., Latyshev, A.V., Nucleation of two-dimensional Si islands near a monatomic step on an atomically clean Si(111)-(7×7) surface, *Optoelectronics, Instrumentation and Data Processing*, 2016, 52 (3), pp. 286-291
- 1150.** Zhao, R., Evans, J.W., Oliveira, T.J., Permeability and kinetic coefficients for mesoscale BCF surface step dynamics: Discrete two-dimensional deposition-diffusion equation analysis, *Physical Review B - Condensed Matter and Materials Physics*, 2016, Volume 93, Issue 16, 8 April 2016, Article number 165411
- 1151.** Wang, Hong, et al. "Area confined position control of molecular aggregates." *New Journal of Physics* 18.5 (2016): 053006.
- 1152.** Rogilo, D. I., et al. "2D Si island nucleation on the Si (111) surface at initial and late growth stages: On the role of step permeability in pyramidlike growth." *Journal of Crystal Growth* 457 (2016) 188–195.
- 1153.** Sitnikov, S. V., A. V. Latyshev, and S. S. Kosolobov. "Advacancy-mediated atomic steps kinetics and two-dimensional negative island nucleation on ultra-flat Si (111) surface." *Journal of Crystal Growth* 457 (2016) 196–201.

- 334. Avramov, I.** Kinetics of distribution of infections in networks. *Physica A: Statistical Mechanics and its Applications*, 379, 2, 2007, ISSN:3784371, DOI:10.1016/j.physa.2007.02.002, 615-620

Цумура се в:

- 1154.** Anderson, BR; Gunawidjaja, R; Price, P; Eilers, H., *JOURNAL OF APPLIED PHYSICS*, 120 (8):10.1063/1.4961418 AUG 28 2016
- 1155.** Benjamin R. Anderson, Ray Gunawidjaja, Patrick Price and Hergen Eilers, *J. Appl. Phys.* 120, 083102 (2016); <http://dx.doi.org/10.1063/1.4961418>
- 1156.** J Militký, J Šesták - *Journal of Thermal Analysis and Calorimetry* (2016) 1-3
- 1157.** Wan, B., Fu, G., Li, Y., Zhao, Y. *Sensors (Switzerland)*, (2016) 16 ( 8 ), art. no. 1263
- 1158.** Haye, E., Capon, F., Barrat, S., Boulet, P., Andre, E., Carteret, C., Bruyere, S., *Journal of Alloys and Compounds*, 657 (2016) pp. 631 - 638
- 1159.** Jeong Hun Kwak, Sung Su Lee, Hyeon Jun Lee, Ji Young Jo, *Applied Physics Letters* 03/2016; 108(12):123107.

- 335. Komsijska, L., Tsakova, V., Staikov, G.** Electrochemical formation and properties of thin polyaniline films on Au(111) and p-Si(111). *Applied Physics A: Materials Science and Processing*, 87, 3, 2007, ISSN:9478396, DOI:10.1007/s00339-007-3905-0, 405-409

Цумура се в:

- 1160.** V.T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016

- 336. Milchev, A., Stoyanov, S.** The Impact of Electrocrystallization on Nanotechnology. *Electrocrystallization in Nanotechnology*, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany., 2007, ISBN:978-3-527-31515-4, DOI:10.1002/9783527610198.ch1, 1-29

Цумура се в:

- 1161.** Karabozhikova, V., Tsakova, V., Role of the doping ions for the electrocrystallization of silver on poly(3, 4-ethylenedioxythiophene)-modified electrodes, *Electrochimica Acta*, 217( 2016) 218-225.

- 337.** Mitov, M., **Rashkov, R.**, Atanasov, N., Zielonka, A.. Effects of nickel foam dimensions on catalytic activity of supported Co-Mn-B nanocomposites for hydrogen generation from stabilized borohydride solutions. *Journal of Materials Science*, 42, 10, 2007, ISSN:222461, DOI:10.1007/s10853-006-0786-0, 3367-3372

Цумура се в:

- 1162.** Shavi, R., Jadhav, A.H., Lee, K., Seo, J.G., Sulfonated nanolayers of H<sup>+</sup>-montmorillonite as an efficient acidic catalyst for hydrogen generation from hydrolysis of sodium borohydride, *Journal of Nanoscience and Nanotechnology*, Volume 16, Issue 10, October 2016, Pages 10980-10985
- 1163.** Ping, D., Wang, C., Dong, X., Dong, Y., Co-production of hydrogen and carbon nanotubes on nickel foam via methane catalytic decomposition, *Applied Surface Science*, Volume 369, 2016, Pages 299-307
- 1164.** Wang, Y., Shen, Y., Qi, K., Cao, Z., Zhang, K., Wu, S., Nanostructured cobalt-phosphorous catalysts for hydrogen generation from hydrolysis of sodium borohydride solution, *Renewable Energy*, Volume 89, 2016, Pages 285-294
- 1165.** Wang, Y., Li, T., Bai, S., Qi, K., Cao, Z., Zhang, K., Wu, S., Wang, D., Catalytic hydrolysis of sodium borohydride via nanostructured cobalt-boron catalysts, *International Journal of Hydrogen Energy*, Volume 41, Issue 1, 2016, Pages 276-284
- 338.** Uzunova, M., Kostadinov, M., **Georgieva, J.**, Dushkin, C., Todorovsky, D., Philippidis, N., Poullos, I., Sotiropoulos, S.. Photoelectrochemical characterisation and photocatalytic activity of composite La<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> coatings on stainless steel. *Applied Catalysis B: Environmental*, 73, 2-Jan, 2007, ISSN:9263373, DOI:10.1016/j.apcatb.2006.12.004, 23-33

Цумура се в:

- 1166.** C. Adán, J. Marugán, E. Sánchez, C. Pablos, R. van Grieken, Understanding the effect of morphology on the photocatalytic activity of TiO<sub>2</sub> nanotube array electrodes, *Electrochimica Acta* 191 (2016) 521–529
- 339.** **Milchev, A.**, Dimitrov D., Binder K.. Capillary Rise in Nanopores: Molecular Dynamics Evidence for the Lucas-Washburn Equation. 2007

Цумура се в:

- 1167.** Dhar, J., Jaggi, P., Chakraborty, S. Oscillatory regimes of capillary imbibition of viscoelastic fluids through concentric annulus (2016) *RSC Advances*, 6 (65), pp. 60117-60125. 10.1039/c6ra05002f
- 1168.** Zacharoudiou, I., Boek, E.S. Capillary filling and Haines jump dynamics using free energy Lattice Boltzmann simulations (2016) *Advances in Water Resources*, 92, pp. 43-56. 10.1016/j.advwatres.2016.03.013
- 1169.** Gruener, S., Hermes, H.E., Schillinger, B., Egelhaaf, S.U., Huber, P. Capillary rise dynamics of liquid hydrocarbons in mesoporous silica as explored by gravimetry, optical and neutron imaging: Nano-rheology and determination of pore size distributions from the shape of imbibition fronts (2016) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 496, pp. 13-27. 10.1016/j.colsurfa.2015.09.055
- 1170.** Sedghi, M., Piri, M., Goual, L. Atomistic Molecular Dynamics Simulations of Crude Oil/Brine Displacement in Calcite Mesopores (2016) *Langmuir*, 32 (14), pp. 3375-3384. 10.1021/acs.langmuir.5b04713
- 1171.** Buchheim, J., Park, H.G. Failure mechanism of the polymer infiltration of carbon nanotube

forests (2016) *Nanotechnology*, 27 (46), art. no. 464002, DOI: 10.1088/0957-4484/27/46/464002

- 1172.** Gravelle, S., Ybert, C., Bocquet, L., Joly, L. Anomalous capillary filling and wettability reversal in nanochannels (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (3), art. no. 033123, 10.1103/PhysRevE.93.033123
- 1173.** Zheng, J., Zhang, J., Tan, L., Li, D., Huang, L., Wang, Q., Liu, Y. Effects of Aspect Ratio on Water Immersion into Deep Silica Nanoholes (2016) *Langmuir*, 32 (34), pp. 8759-8766. 10.1021/acs.langmuir.6b01575
- 1174.** Ibrahim, I., Gemming, T., Weber, W.M., Mikolajick, T., Liu, Z., Rmmeli, M.H. Current Progress in the Chemical Vapor Deposition of Type-Selected Horizontally Aligned Single-Walled Carbon Nanotubes (2016) *ACS Nano*, 10 (8), pp. 7248-7266.10.1021/acsnano.6b03744
- 1175.** Gruener, S., Wallacher, D., Greulich, S., Busch, M., Huber, P. Hydraulic transport across hydrophilic and hydrophobic nanopores: Flow experiments with water and n-hexane (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (1), art. no. 013102, 10.1103/PhysRevE.93.013102
- 1176.** Cao, B.-Y., Yang, M., Hu, G.-J. Capillary filling dynamics of polymer melts in nanopores: Experiments and rheological modelling (2016) *RSC Advances*, 6 (9), pp. 7553-7559. 10.1039/c5ra24991k

- 340.** Milkova, V., Radeva, T.. Effect of chain length and charge density on the construction of polyelectrolyte multilayers on colloidal particles. *Journal of Colloid and Interface Science*, 308, 2, 2007, ISSN:219797, DOI:10.1016/j.jcis.2007.01.029, 300-308

Цитирана се в:

- 1177.** . Kovačević, D., Pratnekar, R., Godič Torkar, K., Salopek, J., Dražić, G., Abram, A., Klemen Bohinc, Influence of Polyelectrolyte Multilayer Properties on Bacterial Adhesion Capacity, *Polymers* 8(10), 345-357 (2016).

- 341.** Georgieva, J., Armyanov, S., Valova, E., Poullos, I., Sotiropoulos, S.. Enhanced photocatalytic activity of electrosynthesised tungsten trioxide-titanium dioxide bi-layer coatings under ultraviolet and visible light illumination. *Electrochemistry Communications*, 9, 3, 2007, ISSN:13882481, DOI:10.1016/j.elecom.2006.09.028, 365-370

Цитирана се в:

- 1178.** A. Shokri, M. M. Ghazi, Preparation and characterizations of CuO doped ZnO nano-structure for the photocatalytic degradation of 4-chlorophenol under visible light, *Advances in Environmental Technology* 1, 11-24 (2016).
- 1179.** В. Цакова, Институтът по физикохимия „Академик Ростислав Каишев“ – носител и продължител на традицията на българската физикохимична школа, *Khimiya/Chemistry: Bulgarian Journal of Science Education*, 25, 35-67 (2016)
- 1180.** H. Jung, S. Y. Chae, H. Kim, B. K. Min, Y. J. Hwang, Electrospun Mo-doped BiVO<sub>4</sub> photoanode on a transparent conductive substrate for solar water oxidation, *Catalysis Communications*, 75, 18-22 (2016)
- 1181.** T. T. Guaraldo, V. R. Gonçales, B. F. Silva, S. I. C. de Torresi, M. V. B. Zanoni, J. *Electroanalyt. Chem.*, 765, 188-196 (2016) Hydrogen production and simultaneous photoelectrocatalytic pollutant oxidation using a TiO<sub>2</sub>/WO<sub>3</sub> nanostructured photoanode under visible light irradiation
- 1182.** X. Wang, S.Chen, Y. Shuai, Facile synthesis of polyaniline-modified CuS with enhanced adsorbtion and photocatalytic activity, *Russ. J. Phys. Chem.*, 90, 2069-2075 (2016).

- 342.** Koleva, D.A., Van Breugel, K., De Wit, J.H.W., Van Westing, E., **Boshkov, N.**, Fraaij, A.L.A.. "Electrochemical behavior, microstructural analysis, and morphological observations in reinforced mortar subjected to chloride ingress". Journal of the Electrochemical Society, 154, 3, 2007, ISSN:134651, DOI:10.1149/1.2431318, E45-E56

Цитира се в:

- 1183.** Cheng Z.-J., Song D., Jiang J.-Y., Jiang J.-H., Ma X.L., You K., Ma A.-B., "Microstructure characteristic and electrochemical corrosion behavior of surface nano-crystallization modified carbon steel" (2016), Journal of Iron and Steel Research International, 23, (12), 1281-1289.
- 1184.** Karadakis, K., Azad, V.J., Ghods, P., Isgor, O.B., "Numerical investigation of the role of mill scale crevices on the corrosion initiation of carbon steel reinforcement in concrete", (2016), Journal of the Electrochemical Society, 163, (6), C306-C315.
- 1185.** Balusamy T., Nishimura T., "In-situ monitoring of local corrosion process of scratched epoxy coated carbon steel in simulated pore solution containing varying percentage of chloride ions by Localized Electrochemical Impedance Spectroscopy", (2016), Electrochimica Acta, 199, (1), 305-313.
- 1186.** T. Koike, H. Tokieda, Y. Hoshi, I. Shitanda, and M. Itagaki, "Detection Method of Corrosion Site of Reinforcing Steel in Concrete By Two Electrode System", (2016), Electrochemical Society Meeting PRIME, October 2 – 7, Honolulu, Hawaii.
- 343.** Stubenrauch, C., **Cohen, R.**, **Exerowa, D.**. A pH-study of n-dodecyl- $\beta$ -D-maltoside foam films. Langmuir, 23, 4, 2007, ISSN:7437463, DOI:10.1021/la062310m, 1684-1693

Цитира се в:

- 1187.** Диляна Ст. Иванова, Дисертация, СУ "Св. Климент Охридски", Факултет по химия и фармация, Катедра "Физикохимия", "Изтъняване и критична дебелина на пенни филми от водни р-ри на смеси от n-додецил- $\beta$ -D-малтозид с нейонни и йонни ПАВ", (2016)
- 344.** **Karamanov, A.**, Aloisi, M., Pelino, M.. Vitrification of copper flotation waste. Journal of Hazardous Materials, 140, 2-Jan, 2007, ISSN:3043894, DOI:10.1016/j.jhazmat.2006.09.040, 333-339

Цитира се в:

- 1188.** Mehrabian, M. and Sarrafi, A., 2015. Investigation of the possibility of production of ceramic tile from tailings of the copper concentration plant. CTAIJ 10(5) 2015 [177-183] chemical technology, Indian j. ISSN : 0974 - 7443
- 1189.** Abdel-Hameed, S.A. and Erfan, N.A., 2016. Recycling of Iron Sintered Wastes Into Nanoparticles Barium Hexaferrite and Zinc-Ferrite Glass-Ceramics. Silicon, pp.1-11.
- 1190.** Rincón, A., Marangoni, M., Cetin, S. and Bernardo, E., 2016. Recycling of inorganic waste in monolithic and cellular glass-based materials for structural and functional applications. Journal of Chemical Technology and Biotechnology, 91(7), pp.1946-1961.
- 1191.** Cocic, M., Logar, M., Matovic, B., Devic, S., Volkov-Husovic, T., Cocic, S. and Tasic, V., 2016. Final Flotation Waste Kinetics of Sintering at Different Heating Regimes. Science of Sintering, 48(2), p.197.
- 345.** **Avramov, I.** Pressure and temperature dependence of viscosity of glassforming and of geoscientifically relevant systems. Journal of Volcanology and Geothermal Research, 160, 2-Jan, 2007, ISSN:3770273, DOI:10.1016/j.jvolgeores.2006.09.006, 165-174

Цумура се в:

**1192.** E Kaminska, M Tarnacka, K Jurkiewicz, K Kaminski, M. Paluch, J. Chem. Phys. 144, 054503 (2016); <http://dx.doi.org/10.1063/1.4940776>

**346.** J. Christophe, **V. Tsakova**, C. Buess-Herman. Electroreduction of nitrate at copper electrodes and copper-PANI composite layers. Zeitschrift fuer Physikalische Chemie, 221, 2007, 1123-1136. ISI IF:1.356

Цумура се в:

**1193.** D. Hetemi, C. Combellas, F. Kanoufi, J. Pinson, F.I. Podvorica, Surface modification by electrochemical reduction of alkyldiazonium salts, Electrochem. Commun. 68 (2016) 5-9.

**347.** **Milchev, A.** Driven polymer translocation through a nanopore: A manifestation of anomalous diffusion. 2007

Цумура се в:

**1194.** Kasianowicz, J.J., Balijepalli, A.K., Etedgui, J., Forstater, J.H., Wang, H., Zhang, H., Robertson, J.W.F. Analytical applications for pore-forming proteins (2016) Biochimica et Biophysica Acta - Biomembranes, 1858 (3), pp. 593- 606. 10.1016/j.bbamem.2015.09.023

**1195.** Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew" (2016) Chemistry, 25 (1), pp. 35-67

**348.** **Avramov, I.** Viscosity activation energy. Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B, 48, 1, 2007, ISSN:319090, 61-63

Цумура се в:

**1196.** WL Hsu, H Daiguji, DE Dunstan, MR Davidson, Dalton J.E. Harvie Advances in Colloid and Interface Science (2016) 234 108-131

**1197.** D Boutelier, A Cruden, B Saumur - Journal of Structural Geology, 2016 doi:10.1016/j.jsg.2016.03.001

**349.** **Naney, C.N.** Protein crystal nucleation: Recent notions. Crystal Research and Technology, 42, 1, 2007, ISSN:2321300, DOI:10.1002/crat.200610761, 4-12

Цумура се в:

**1198.** Bourque, Alexander Jules, C. Rebecca Locker, and Gregory C. Rutledge. "Heterogeneous Nucleation of an n-Alkane on Tetrahedrally Coordinated Crystals." The Journal of Physical Chemistry B (2017).

**350.** **A. Milchev**, Dubbeldam J., A. Rostiashvili, Vilgis T.A.. Polymer translocation through a nanopore: A showcase of anomalous diffusion.. 2007

Цумура се в:

**1199.** Al-Musalhi, F., Kerbal, S. Cauchy problem for some fractional nonlinear ultra-parabolic equations (2016) Electronic Journal of Differential Equations, 2016, art. no. 172

**1200.** Hsiao, P.-Y. Conformation change, tension propagation and drift-diffusion properties of polyelectrolyte in nanopore translocation (2016) Polymers, 8 (10), art. no. 378 DOI: 10.3390/polym8100378

**1201.** Hsiao, P.-Y. Polyelectrolyte threading through a nanopore (2016) Polymers, 8 (3), art. no. 73,

- 1202.** Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew" (2016) Chemistry, 25 (1), pp. 35-67

## 2008

- 351.** Nineva, S., Dobrovoiska, T., **Krastev, I.** Electrodeposition of silver-cobalt coatings. Bulgarian Chemical Communications, 40, 3, 2008, ISSN:8619808, 248-253

Цитирана се в:

- 1203.** Ulu, Fulya; Demirci, G.; Erdogan, Metehan; Karakaya, Ishak, The Role of Electrolyte Composition on Codeposited Ag and Cu, ECS Transaction, 72, 21, (2016), 35-44

- 352.** V. Nikolova, P. Iliev, K. Petrov, T. Vitanov, E. Zhecheva, R. Stoyanova, I. Valov, **D. Stoychev.** Electrocatalysts for bifunctional oxygen/air electrodes. Journal of Power Sources, 185, 2, Elsevier, 2008, ISSN:3787753, DOI:10.1016/j.jpowsour.2008.08.031, 727-733. SJR:1.819, ISI IF:6.217

Цитирана се в:

- 1204.** Chapter Li-S and Li-O<sub>2</sub> Batteries with High Specific Energy Part of the series SpringerBriefs in Molecular Science pp 1-48 Date: 09 November 2016 Li-S and Li-O<sub>2</sub> Batteries with High Specific Energy, Huamin Zhang, Xianfeng Li, Hongzhang, 2017

- 1205.** Issue 34, 2016 Previous Article | Next Article Communication Highly efficient photoelectrochemical water splitting by a hybrid tandem perovskite solar cell Abd. Rashid Bin, a Mohd Yusoffa and Jin Jang\* a Show Affiliations Hide Affiliations \* Corresponding authors a Department of Information Display, Kyung Hee University, Seoul, Republic of Korea E-mail: jjang@khu.ac.kr Chem. Commun., 2016, 52, 5824-5827 DOI: 10.1039/C6CC01249C

- 1206.** Investigation of Electrode Materials Based on Perovskite and Pyrochlore Structures for the Oxygen Evolution Reaction by Maria A. Abreu-Sepúlveda Submitted in partial fulfillment of the Requirements for the Degree Doctor of Philosophy Supervised by Professor David J. Quesnel Materials Science Program Arts, Sciences and Engineering Edmund A. Hajim School of Engineering and Applied Sciences University of Rochester Rochester, New York 2016

- 1207.** Transition metal (Fe, Co, Ni, and Mn) oxides for oxygen reduction and evolution bifunctional catalysts in alkaline media Hannah Osgood · Surya V. Devaguptapu · Hui Xu · [...] · Gang Wu Article · Oct 2016 · Nano Today

- 1208.** Maria A. Abreu-Sepúlveda, "Investigation of Electrode Materials Based on Perovskite and Pyrochlore Structures for the Oxygen Evolution Reaction" PhD Dissertation, Edmund A. Hajim School of Engineering and Applied Sciences, University of Rochester, Rochester, New York, 2016

- 1209.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

- 1210.** Nano Today, Volume 11, Issue 5, October 2016, Pages 601–625 <http://dx.doi.org/10.1016/j.nantod.2016.09.001> Review Transition metal (Fe, Co, Ni, and Mn) oxides for oxygen reduction and evolution bifunctional catalysts in alkaline media Hannah Osgooda, Surya V. Devaguptapu, Hui Xub, Jaephil Choc, Gang Wua,

- 1211.** D Pletcher, X Li, SWT Price, AE Russell, T Sönmez, Stephen J. Thompsona, Comparison of the Spinels Co<sub>3</sub>O<sub>4</sub> and NiCo<sub>2</sub>O<sub>4</sub> as Bifunctional Oxygen Catalysts in Alkaline Media,



- 1212.** Seifollah Jalili, Elham Moharramzadeh Goliaei, Jeremy Schofield, K1.33Mn8O16 as an electrocatalyst and a cathode, Journal of Solid State Chemistry, Volume 246, February 2017, Pages 388–398
- 1213.** Effect of the Oxide-Carbon Heterointerface on the Activity of Co<sub>3</sub>O<sub>4</sub>/NRGO Nanocomposites Towards ORR and OER Kavita Kumar, Christine Canaff, Julie Rousseau, Sandrine Arrii-Clacens, Têko W. Napporn, Aurélien Habrioux\*, and Kouakou B. Kokoh\* J. Phys. Chem. C, 2016, 120 (15), pp 7949–7958 DOI: 10.1021/acs.jp DOI: 10.1021/acs.jpcc.6b00313
- 1214.** Recent progress and perspectives on bi-functional oxygen electrocatalysts for advanced rechargeable metal–air batteries Dong Un Lee, a Pan Xu, a Zachary P. Cano, a Ali Ghorbani Kashkooli, a Moon Gyu Parka and Zhongwei Chen\*a J. Mater. Chem. A, 2016, 4, 7107-7134 DOI: 10.1039/C6TA00173D
- 1215.** Voltammetric Studies of the Mechanism of the Oxygen Reduction in Alkaline Media at the Spinels Co<sub>3</sub>O<sub>4</sub> and NiCo<sub>2</sub>O<sub>4</sub> Turgut Sönmeza, Stephen J. Thompsona, Stephen W. T. Priceb, Derek Pletcher\*, \* and Andrea E. Russell J. Electrochem. Soc. 2016 volume 163, issue 10, H884-H890 DOI: 10.1149/2.0111610jes
- 1216.** Sijie Guo, Yanmei Yang, Naiyun Liu, Shi Qiao, Hui Huang, Yang Liu, Zhenhui Kang, One-step synthesis of cobalt, nitrogen-codoped carbon as nonprecious bifunctional electrocatalyst for oxygen reduction and evolution reactions, Article Materials Science, Science Bulletin, pp 1-10, 2016
- 1217.** Highly efficient photoelectrochemical water splitting by a hybrid tandem perovskite solar cell Abd. Rashid Bin, a Mohd Yusoffa and Jin Jang\*a Chem. Commun., 2016, 52, 5824-5827 DOI: 10.1039/C6CC01249C
- 1218.** Journal of Alloys and Compounds Volume 666, 5 May 2016, Pages 476–481 Iron-nickel spinel oxide as an electrocatalyst for non-aqueous rechargeable lithium-oxygen batteries Harsharaj S. Jadhav, Ramchandra S. Kalubarme, Arvind H. Jadhav, Jeong Gil Seo doi:10.1016/j.jallcom.2016.01.131
- 1219.** Ying Wang, Qing Liu, Limin Zhang, Yixiao Wang, One-pot synthesis of Ag–CoFe<sub>2</sub>O<sub>4</sub>/C as efficient catalyst for oxygen reduction in alkaline media International Journal of Hydrogen Energy • June 2016, DOI: 10.1016/j.ijhydene.2016.05.287 16.
- 353.** Tegou, A., Papadimitriou, S., **Armyanov, S., Valova, E.**, Kokkinidis, G., Sotiropoulos, S.. "Oxygen reduction at platinum- and gold-coated iron, cobalt, nickel and lead deposits on glassy carbon substrates". Journal of Electroanalytical Chemistry, 623, 2, 2008, ISSN:220728, DOI:10.1016/j.jelechem.2008.07.012, 187-196. ISI IF:2.822

Цумура се в:

- 1220.** G. Rahman, S.A. Mian, O.S. Joo, Electrocatalytic behavior of glassy carbon electrode modified with ruthenium nanoparticles and ruthenium film, J. Appl. Electrochem., 46, 459–468 (2016).
- 1221.** R. M. Abdel Hameed, R. S. Amin, K. El-Khatib, A. E. Fetohi, Influence of metal oxides on platinum activity towards methanol oxidation in H<sub>2</sub>SO<sub>4</sub> solution, ChemPhysChem, 17, (7) 1054-1061 (2016), DOI: 10.1002/cphc.201501072.
- 1222.** S. Morita, E. Kudo, R. Shirasaka, M. Yonekawa, K.i Nagai, H. Ota, M. N.-Gamo, H. Shiroishi, Electrochemical oxidation of ammonia by multi-wall-carbon-nanotubes-supported Pt shell-Ir core nanoparticles synthesized by an improved Cu short circuit deposition method J. Electroanal. Chem., 762, 29-36 (2016)

- 354. Kashchiev, D.** Toward a better description of the nucleation rate of crystals and crystalline monolayers.

Цумура се в:

- 1223.** Wolf, Stefan Leo Philipp, et al. "Gel-Like Calcium Carbonate Precursors Observed by in-situ AFM." *Langmuir* (2016), DOI: 10.1021/acs.langmuir.6b03974
- 1224.** Palberg, Thomas, Patrick Wette, and Dieter M. Herlach. "Equilibrium fluid-crystal interfacial free energy of bcc-crystallizing aqueous suspensions of polydisperse charged spheres." *Physical Review E* 93.2 (2016): 022601.
- 1225.** Liszka, Barbara M., et al. "Calcium carbonate nucleation investigated in a Double Pulse experiment." *Crystal Growth & Design* 16.9 (2016): 4839-4845.
- 1226.** Michel, Denis. "Modeling generic aspects of ideal fibril formation." *The Journal of chemical physics* 144.3 (2016): 035101.
- 355. Tsakova, V..** How to affect number, size, and location of metal particles deposited in conducting polymer layers". *Journal of Solid State Electrochemistry*, 12, 11, 2008, ISSN:14328488, DOI:10.1007/s10008-007-0494-y, 1421-1434. ISI IF:4.504

Цумура се в:

- 1227.** E. G. Toistopaytova, Y. K. Saidova, A. M. Smolin, N. P. Novoselov, V. V. Kondrat'ev, Synthesis of a water dispersion of the PEDOT:PSS/Pd composite and its use for the fabrication of an electrochemical sensor for hydrazine, *J. Anal. Chem.* 71 (2016)195-200.
- 1228.** F. Hashemi, A.R. Zanganeh, Electrochemically induced regioregularity of the binding sites of a polyaniline membrane as a powerful approach to produce selective recognition sites for silver ion, *J. Electroanal. Chem.* 767 (2016) 24-33.
- 1229.** V V Kondratiev, V V Malev, S N Eliseeva, Composite electrode materials based on conducting polymers loaded with metal nanostructures, *Russ. Chem. Rev.* 85 (2016) 14 – 37.
- 1230.** Z. A. Boeva, R.-M. Latonen, T. Lindfors, Z. Mousavi, Electrochemical Fabrication of Carbon Nanomaterial and Conducting Polymer Composites for Chemical Sensing, Chapter 11, in *Electrochemical Nanofabrication: Principles and Applications*, D. Wei, Ed., CRC Press 2016
- 1231.** A. Pinithchaisakula, S. Themsirimongkon, N. Promsawan, P. Weankeaw, K. Ounnunkad, S. Saipanya, An Investigation of a Polydopamine-Graphene Oxide Composite as a Support for an Anode Fuel Cell Catalyst, *Electrocatalyst*, (2016) 1-10.
- 356. Zhivkov, A.M., Gyurova, A.Y..** High frequency electric polarizability of bacteria E. coli: Dependence on the medium ionic strength. *Colloids and Surfaces B: Biointerfaces*, 66, 2, 2008, ISSN:9277765, DOI:10.1016/j.colsurfb.2008.06.007, 201-205. ISI IF:4.152

Цумура се в:

- 1232.** Petrov, M.P., Shilov, V.N., Trusov, A.A., Voitylov, A.V., Vojtylov, V.V., Electro-optic research of polarizability dispersion in aqueous polydisperse suspensions of nanodiamonds, *Colloids and Surfaces A*, 506 (2016) 40-49.
- 1233.** V. Blanckaert, A. Salles, M.L. Thomas, J. Teissié, Electroeradication of Escherichia coli is under the control of the conductance of the pulsing buffer, *IFMBE Proceedings*, 53 (2016) 367-371.
- 357. Avramov, I., H?che, T., Henderson, G.S..** Possible differences between the surface and bulk structure of glasses. *Journal of Non-Crystalline Solids*, 354, 40-41, 2008, ISSN:223093, DOI:10.1016/j.jnoncrysol.2008.07.017, 4681-4684

Цумура се в:

1234. M Valant, M Fanetti, U Luin - Appl. Phys. Lett. 108, 151601 (2016)

358. **Milchev, A.** Universal properties of a single polymer chain in slit: Scaling versus molecular dynamics simulations. 2008

Цумура се в:

1235. Glagoleva, A.A., Vasilevskaya, V.V., Khokhlov, A.R. Polymer globule with fractal properties caused by intramolecular nanostructuring and spatial constrains (2016) Soft Matter, 12 (23), pp. 5138-5145. 10.1039/c6sm00747c

1236. Jeong, D., Kim, J., Sung, B.J. Effects of solvent and wall roughness on the dynamics and structure of a single polymer in a slit (2016) Polymer (United Kingdom), 92, pp. 256-263. 10.1016/j.polymer.2016.04.002

1237. Hoseinpoor, S.M., Nikoofard, N., Zahedifar, M. Accuracy Limits of the Blob Model for a Flexible Polymer Confined Inside a Cylindrical Nano-Channel (2016) Journal of Statistical Physics, 163 (3), pp. 593-603. 10.1007/s10955-016-1489-9

359. Papadimitriou, S., Tegou, A., Pavlidou, E., **Armyanov, S., Valova, E.**, Kokkinidis, G., Sotiropoulos, S.. Preparation and characterisation of platinum- And gold-coated copper, iron, cobalt and nickel deposits on glassy carbon substrates. Electrochimica Acta, 53, 22, 2008, ISSN:134686, DOI:10.1016/j.electacta.2008.04.015, 6559-6567. ISI IF:4.504

Цумура се в:

1238. S. H. Ahn, S. J. Yoo, H.-J. Kim, D. Henkensmeier, S. W. Nam, S.-K. Kim, J. H. Jang, Anion Exchange Membrane Water Electrolyzer with an Ultra-low Loading of Pt-decorated Ni Electrocatalyst, Appl. Catal. B: Environm., 180, 674-679 (2016)

1239. R. Solmaz, A. Doner, M. Dogrubas, I. Y. Erdogan, G. Kardas, Enhancement of electrochemical activity of Raneytype NiZn coatings by modifying with PtRu binary deposits: Application for alkaline water electrolysis, Internat. J. Hydrogen Ener., 41 (3) 1432-1440 (2016).

1240. V. Kepenienė, L. Tamašauskaitė-Tamašiūnaitė, J. Jablonskienė, M. Semaško, J. Vaičiūnienė, R. Vaitkus, E. Norkus, One-pot synthesis of graphene supported platinum–cobalt nanoparticles as electrocatalysts for methanol oxidation, Materials Chemistry and Physics, 171, 145-152 (2016)

1241. B. I. Podlovchenko, V. V. Kuznetsov, R. S. Batalov, Palladium catalyst modified with molybdenum bronze as a possible alternative to platinum in the methanol oxidation reaction, J. Solid State Electrochem., 20, 589-595 (2016)

1242. S. R. Hosseini, J.-B. Raoof, S. Ghasemi, Z. Gholami, Pd-Cu/poly(o-Anisidine) nanocomposite as an efficient catalyst for formaldehyde oxidation, Materials Research Bulletin, 80, 107-119 (2016)

1243. Z. Al Amri, M. P. Mercer, N.Vasiljevic, Surface Limited Redox Replacement Deposition of Platinum Ultrathin Films on Gold: Thickness and Structure Dependent Activity towards the Carbon Monoxide and Formic Acid Oxidation reactions, Electrochim. Acta, 210, 520-529 (2016)

1244. V. Kepenienė, L. Tamašauskaitė-Tamašiūnaitė, J. Jablonskienė, J. Vaičiūnienė, R. Kondrotas, V. Pakštas, E. Norkus, Platinum-Niobium(V) Oxide/Carbon Nanocomposites Prepared By Microwave Synthesis For Ethanol Oxidation, Materials Science (Medziagotyra), 22, 243-248 (2016)

1245. A. M. Saeed, C.A. Wisner, S. Donthula, H. Majedi Far, C. Sotiriou-Leventis, N. Leventis, Reuseable monolithic nanoporous graphite-supported nanocatalysts (Fe, Au, Pt, Pd, Ni, and Rh)

from pyrolysis and galvanic transmetalation of ferrocene-based polyamide aerogels, *Chem. Mater.*, 28, 4867-4877 (2016).

- 1246.** S. Kavian, S. N. Azizi, S. Ghasemi, Fabrication of novel nanozeolite-supported bimetallic Pt-Cu nanoparticles modified carbon paste electrode for electrocatalytic oxidation of formaldehyde, *Intern. J. Hydr. Ener.*, 41, 14026-14035 (2016)
- 1247.** V. V. Pryadchenko, V. V. Srabionyan, A. A. Kurzin, N. V. Bulat, D. B. Shemet, L. A. Avakyan, S. V. Belenov, V. A. Volochaev, I. Zizak, V. E. Guterman, L. A. Bugaev, Bimetallic PtCu Core-Shell Nanoparticles in PtCu/C Electrocatalysts: Structural and Electrochemical Characterization, *Applied Catalysis A: General*, 525, 226-236 (2016)
- 1248.** G. Caballero-Manrique, I. M. Nadeem, E. Brillas, F. Centellas, J. A. Garrido, R. M. Rodríguez, P.-L. Cabot, Effects of the Electrodeposition Time in the Synthesis of Carbon-Supported Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Polymer Electrolyte Fuel Cells, *Catalysts*, 6, 125-138 p. (2016)
- 1249.** J. K. Yoo, C. K. Rhee, Formic acid oxidation on Bi-modified Pt surfaces: Pt deposits on Au versus bulk Pt, *Electrochim. Acta*, 216, 16–23 (2016)
- 1250.** В. Цакова, Институтът по физикохимия „Академик Ростислав Каишев“ – носител и продължител на традицията на българската физикохимична школа, *Khimiya/Chemistry: Bulgarian Journal of Science Education*, 25, 35-67 (2016)
- 1251.** S. Morita, E. Kudo, R. Shirasaka, M. Yonekawa, K. Nagai, H. Ota, M. N.-Gamo, H. Shiroishi, Electrochemical oxidation of ammonia by multi-wall-carbon-nanotubes-supported Pt shell-Ir core nanoparticles synthesized by an improved Cu short circuit deposition method, *J. Electroanal. Chem.*, 762, 29–36 (2016)
- 360.** Milkova, V., Kamburova, K., Petkanchin, I., Radeva, T. Complexation of ferric oxide particles with pectins of different charge density. *Langmuir*, 24, 17, 2008, ISSN:7437463, DOI:10.1021/la8012602, 9495-9499

Цитирани са:

- 1252.** Sennato, S., Carlini, L., Truzzolillo, D., Bordini, F., Salt-induced reentrant stability of polyion-decorated particles with tunable surface charge density, *Colloids and Surfaces B: Biointerfaces* 137, 109-120 (2016).
- 1253.** Lv, J., Yang, J., Hao, X., Ren, X., Feng, Y., Zhang, W., Biodegradable PEI modified complex micelles as gene carriers with tunable gene transfection efficiency for ECs, *Journal of Materials Chemistry B* 4 (5), 997-1008 (2016).
- 361.** Nanev, C.N. How do crystal lattice contacts reveal protein crystallization mechanism?. *Crystal Research and Technology*, 43, 9, 2008, ISSN:2321300, DOI:10.1002/crat.200800214, 914-920

Цитирани са:

- 1254.** Kang, Kyungtae, et al. "Acetylation of Surface Lysine Groups of a Protein Alters the Organization and Composition of Its Crystal Contacts." *The Journal of Physical Chemistry B* 120.27 (2016): 6461-6468.
- 362.** Dimitrov, D.I., Milchev, A., Binder, K. Local viscosity in the vicinity of a wall coated by polymer brush from green-kubo relations. *Macromolecular Theory and Simulations*, 17, 6, 2008, ISSN:10221344, DOI:10.1002/mats.200800038, 313-318

Цитирани са:

- 1255.** Ilnytskyi, J.M., Bryk, P., Patrykiewicz, A. Pressure-driven flow of oligomeric fluid in nano-

channel with complex structure. A dissipative particle dynamics study (2016) *Condensed Matter Physics*, 19 (1), art. no. 13609, 10.5488/CMP.19.13609

- 363.** Dimitrov, DI, **Milchev, A.**, Binder, K.. Forced imbibition - a tool for separate determination of Laplace pressure and drag force in capillary filling experiments. *Physical Chemistry Chemical Physics*, 10, 14, 2008, 1867-1869. ISI IF:4.493

Цумура се в:

- 1256.** Gruener, S., Wallacher, D., Greulich, S., Busch, M., Huber, P. Hydraulic transport across hydrophilic and hydrophobic nanopores: Flow experiments with water and n-hexane (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (1), art. no. 013102, 10.1103/PhysRevE.93.013102

- 364.** **Avramov, I.**, R?ssel, C., Kolkovska, N., Georgiev, I.. Crystallization kinetics and network rigidity. *Journal of Physics Condensed Matter*, 20, 33, 2008, ISSN:9538984, DOI:10.1088/0953-8984/20/33/335203

Цумура се в:

- 1257.** PK Jha, OP Pandey, K Singh - *Journal of Non-Crystalline Solids*, 440, 2016, Pages 76–84
- 1258.** Manjeet S. Dahiya, Satish Khosa, Arti Yadav, shima Hooda, J. Thermal Analysis and Calorimetry 06 1-9 (2016); DOI:10.1007/s10973-016-5622-4
- 1259.** Manjeet S. Dahiya, Satish Khosa, Arti Yadav, shima Hooda, J. Thermal Analysis and Calorimetry 06/2016; DOI:10.1007/s10973-016-5622-4

- 365.** **Avramov, I.**, **Michailov, M.**. Specific heat of nanocrystals. *Journal of Physics Condensed Matter*, 20, 29, 2008, ISSN:9538984, DOI:10.1088/0953-8984/20/29/295224

Цумура се в:

- 1260.** Joohyun Seo, Donghyun Shin, "Size effect of nanoparticle on specific heat in a ternary nitrate (LiNO<sub>3</sub>–NaNO<sub>3</sub>–KNO<sub>3</sub>) salt eutectic for thermal energy storage" *Applied Thermal Engineering* 102 (2016) 144–148
- 1261.** Lin, Chien-Hung, "The Fabrication of Nanocalorimeter and Its Application to Physical Property Investigation" Dissertation of the Institute of Physics, National Taiwan University; 2016 (2016/01/01), P1 - 45
- 1262.** Maziar Sahba Yaghmaee, Hasan Ahmadian Baghbaderani, "Thermodynamics modeling of cohesive energy of metallic nano-structured materials" *Materials and Design*, Elsevier In press
- 1263.** Boscheto, E; de Souza, M; Lopez-Castillo, A, *PHYSICA A-STATIST. MECHANICS AND ITS APPLICATIONS*, 451 592-600; 2016
- 1264.** H Riazi, T Murphy, GB Webber, R Atkin, SSM Tehrani, Robert A. Taylor, *International Journal of Thermal Science* Volume 107, Pages 25–38, 2016
- 1265.** Lin, Chien-Hung. "奈米比熱儀的製作及其於物性研究的應用." 臺灣大學物理研究所學位論文 (2016): 1-45.
- 1266.** H Lei, J Luo, J Li, F Dai, M Yang, J Zhang, J Zhang - *Applied Physics Letters*, Volume 109 Number 21 2016
- 1267.** Y Li,, R M Anderson, Z Duan, S Chill, R M Crooks, G Henkelman, A I Frenkel, 16th International Conference on X-ray Absorption Fine Structure (XAFS16) IOP Publishing Journal of Physics: Conference Series 712 (2016) 012063 doi:10.1088/1742-6596/712/1/012063

- 366. Georgieva, J., Armyanov, S., Valova, E., Philippidis, N., Poullos, I., Sotiropoulos, S.** Photoelectrocatalytic activity of electrosynthesised tungsten trioxide-titanium dioxide bi-layer coatings for the photooxidation of organics. *Journal of Advanced Oxidation Technologies*, 11, 2, 2008, ISSN:12038407, 300-307. ISI IF:0.988

Цумура ce в:

- 1268.** T. T. Guaraldo, V. R. Gonçales, B. F. Silva, S. I. C. de Torresi, M. V. B. Zanoni, J. Electroanal. Chem., 765, 188-196 (2016) Hydrogen production and simultaneous photoelectrocatalytic pollutant oxidation using a TiO<sub>2</sub>/WO<sub>3</sub> nanostructured photoanode under visible light irradiation

- 367. Boshkov, N., Tsvetkova, N., Petrov, P., Koleva, D., Petrov, K., Avdeev, G., Tsvetanov, Ch., Raichevsky, G., Raicheff, R.** Corrosion behavior and protective ability of Zn and Zn-Co electrodeposits with embedded polymeric nanoparticles. *Applied Surface Science*, 254, 17, 2008, ISSN:1694332, DOI:10.1016/j.apsusc.2008.03.013, 5618-5625

Цумура ce в:

- 1269.** Winiarski, J., Tylus, W., Szczygiel, B., “EIS and XPS investigations on the corrosion mechanism of ternary Zn-Co-Mo alloy coatings in NaCl solution”, (2016), *Applied Surface Science*, 364, 455-466.

- 1270.** Crina, C.A., Lidia, B., Pierre, P., “Phenol-Formaldehyde resin to improve corrosion resistance of zinc layers”, (2016), *Key Engineering Materials*, 699, 63-70.

- 1271.** Crina, C.A., Lidia, B., Pierre, P., “Corrosion resistance of zinc–resin hybrid coatings obtained by electro-codeposition”, (2016), *Arabian Journal of Chemistry*, <http://dx.doi.org/10.1016/j.arabjc.2016.07.002>

- 368. Iankov, R., Cherneva, S., Stoychev, D.** Investigation of material properties of thin copper films through finite element modelling of microindentation test. *Applied Surface Science*, 254, 17, 2008, ISSN:1694332, DOI:10.1016/j.apsusc.2008.02.101, 5460-5469

Цумура ce в:

- 1272.** A review on design of interface structure in micro/nano manufacturing Ping Yang, Yunqing Tang, Bing Yang, *International Journal of Materials and Structural Integrity* > List of Issues > Volume 10, Issue 1-3 > DOI: <http://dx.doi.org/10.1504/IJMSI.2016.079638>

- 1273.** Rassim YOUNES, Mohand Amokrane BRADAI, Abdelhamid SADEDDINE, Youcef MOUADJI, Ali BILEK, Abderrahim BENABBAS, Effect of TiO<sub>2</sub> and ZrO<sub>2</sub> reinforcements on properties of Al<sub>2</sub>O<sub>3</sub> coatings fabricated by thermal flame spraying, *Transactions of Nonferrous Metals Society of China*, Volume 26, Issue 5, May 2016, Pages 1345–1352, doi:10.1016/S1003-6326(16)64237-1

- 1274.** Kaupo Kukli, Emma Salmi,, Taivo Jõgiaas,, Roberts Zabels, Mikael Schuisky, Jörgen Westlinder, Kenichiro Mizohata, Mikko Ritala, Markku Leskelä, Atomic layer deposition of aluminum oxide on modified steel substrates, *Surface and Coatings Technology*, Available online 24 June 2016, doi:10.1016/j.surfcoat.2016.06.064

- 369. Alahverdjieva, V.S., Khristov, Khr., Exerowa, D., Miller, R.** "Correlation between adsorption isotherms, thin liquid films and foam properties of protein/surfactant mixtures: Lysozyme/C10DMPO and lysozyme/SDS". *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 323, 3-Jan, 2008, ISSN:9277757, DOI:10.1016/j.colsurfa.2007.09.026, 132-138

Цумура ce в:

**1275.** Zou, Yuan; Wan, Zhili; Guo, Jian; et al., Modulation of the surface properties of protein particles by a surfactant for stabilizing foams, RSC Advances, 6 70 (2016) 66018-66026

**1276.** Fainerman, V. B.; Aksenenko, E. V.; Kragel, J.; et al., Thermodynamics, interfacial pressure isotherms and dilational rheology of mixed protein-surfactant adsorption layers, Adv. Colloid Interface Sci., 233 (2016) 200-222

**370. A new method for water-in-oil emulsion film studies, A new method for water-in-oil emulsion film studies.** A new method for water-in-oil emulsion film studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 315 (1-3), 2008, 74-78

Цумура се в:

**1277.** Moradi, M., Alvarado, V. Influence of Aqueous-Phase Ionic Strength and Composition on the Dynamics of Water-Crude Oil Interfacial Film Formation, Energy and Fuels, 30 (11) (2016) 9170-9180.

**371. Avramov, I.** "Pressure dependence of viscosity, or is the earth's mantle a glass?". Journal of Physics Condensed Matter, 20, 24, 2008, ISSN:9538984, DOI:10.1088/0953-8984/20/24/244106

Цумура се в:

**1278.** Dahiya, MS; Yadav, A; Manyani, N; Chahal, S; Hooda, A; Agarwal, A; Khasa, S., JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 126 (3):1191-1199; 10.1007/s10973-016-5622-4 DEC 2016

**372. Nedyalkov, M., Alexandrova, L., Platikanov, D., Levecke, B., Tadros, T.F.** Wetting properties of aqueous solutions of hydrophobically modified inulin polymeric surfactant. Colloid and Polymer Science, 286, 7-Jun, 2008, ISSN:0303402X, DOI:10.1007/s00396-007-1823-5, 713-719

Цумура се в:

**1279.** Bian, P.-C., Zhang, D.-P., Gang, H.-Z., (...), Mu, B.-Z., Yang, S.-Z. Synthesis and properties of a novel bio-based branched heptadecylbenzene sulfonate derived from oleic acid, Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016 Volume 32, Issue 11, 8 November 2016, Pages 2753-2760

**1280.** Pan, L., Yoon, R.-H., Measurement of hydrophobic forces in thin liquid films of water between bubbles and xanthate-treated gold surfaces, Minerals Engineering, 2016, pp. Volume 98, 1 November 2016, Pages 240-250

**373. Hodzhaoglu, F., Kurniawan, F., Mirsky, V., Nanev, C.** Gold nanoparticles induce protein crystallization. Crystal Research and Technology, 43, 6, 2008, ISSN:2321300, DOI:10.1002/crat.200811125, 588-593

Цумура се в:

**1281.** Takeda, Yoshihiro, and Fumitaka Mafuné. "Induction of protein crystallization by platinum nanoparticles." Chemical Physics Letters 647 (2016): 181-184.

**1282.** Couto, Cláudia, Rui Vitorino, and Ana L. Daniel-da-Silva. "Gold nanoparticles and bioconjugation: a pathway for proteomic applications." Critical reviews in biotechnology (2016): 1-13.

**1283.** Ko, Sanga, et al. "Gold Nanoparticles as Nucleation-Inducing Reagents for Protein Crystallization." Crystal Growth & Design (2016).

**374. Lalchev, Z., Todorov, R., Exerowa, D.** Thin liquid films as a model to study surfactant layers on the

alveolar surface. *Current Opinion in Colloid and Interface Science*, 13, 3, 2008, ISSN:13590294, DOI:10.1016/j.cocis.2007.11.005, 183-193

Цумура се в:

- 1284.** Chávez-Miyauchi T.E., Firoozabadi A., Fuller G.G. “Nonmonotonic Elasticity of the Crude Oil-Brine Interface in Relation to Improved Oil Recovery” *Langmuir* 32: 2192-2198, 2016
- 1285.** Chen, Shuyan; Zhou, Yujie; Wang, Gehua; et al., Influence of Foam Apparent Viscosity and Viscoelasticity of Liquid Films on Foam Stability, *J.Disp. Sci.Technol.*, 37 4 (2016) 479-485

**375. Milchev, A.** Excess free energy of nanoparticles in a polymer brush. 2008

Цумура се в:

- 1286.** Han, Y., Jin, J., Cui, J., Jiang, W. Effect of hydrophilicity of end-grafted polymers on protein adsorption behavior: A Monte Carlo study (2016) *Colloids and Surfaces B: Biointerfaces*, 142, pp. 38-45. 10.1016/j.colsurfb.2016.01.064
- 1287.** Vovk, A., Gu, C., Opferman, M.G., Kapinos, L.E., Lim, R.Y.H., Coalson, R.D., Jasnow, D., Zilman, A. Simple biophysics underpins collective conformations of the intrinsically disordered proteins of the nuclear pore complex (2016) *eLife*, 5 (MAY2016), art. no. e10785
- 1288.** De Beer, S., Mensink, L.I.S., Kieviet, B.D. Geometry-Dependent Insertion Forces on Particles in Swollen Polymer Brushes (2016) *Macromolecules*, 49 (3), pp. 1070-1078. 10.1021/acs.macromol.5b01960
- 1289.** Ghavami, A., Van Der Giessen, E., Onck, P.R. Energetics of transport through the nuclear pore complex (2016) *PLoS ONE*, 11 (2), art. no. e0148876, 10.1371/journal.pone.0148876
- 1290.** Hua, Y., Zhang, D., Zhang, L. Compression-driven migration of nanoparticles in semiflexible polymer brushes (2016) *Polymer (United Kingdom)*, 83, pp. 67-76. 10.1016/j.polymer.2015.12.003
- 1291.** Nie, G., Li, G., Wang, L., Zhang, X. Nanocomposites of polymer brush and inorganic nanoparticles: Preparation, characterization and application (2016) *Polymer Chemistry*, 7 (4), pp. 753-769. 10.1039/c5py01333j
- 1292.** Milchev, A.& Dimitrov, D.I.& Binder, K., *Polymer*, vol. 49, 2008, p.3611-3618
- 1293.** Ferhan, A.R., Kim, D.-H. Nanoparticle polymer composites on solid substrates for plasmonic sensing applications (2016) *Nano Today*, 11 (4), pp. 415-434. 10.1016/j.nantod.2016.07.001

**376. Valova, E., Armyanov, S., Dille, J., Van Ingelgem, Y., Hubin, A., Steenhaut, O.** Electroless deposited Co-Re-P and Co-Re-Ni-P coatings: Elemental state of the alloy components and their localization. *Journal of the Electrochemical Society*, 155, 6, 2008, ISSN:134651, DOI:10.1149/1.2898862, D449-D458

Цумура се в:

- 1294.** Bangwei Zhang, Ch. 9 “Surface Morphologies” in “Amorphous and Nano Alloys Electroless Depositions”, 2016, Pages 503-579.

**377. Guergova, D., Stoyanova, E., Valov, I., Stoychev, D., Avramova, I., Stefanov, P.** Corrosion Protective Effect of Electrodeposited Ceria on Stainless Steel. In the Book, “Nanoscale Phenomena and Structures”, Edited by D. Kashchiev, Prof. M. Drinov Academic Publishing House, Sofia, pp. 305-308, 2008 (Book of papers. Nanoscale Phenomena and Structures. NPS'08), Prof. M. Drinov Academic Publishing House M. Drinov, 2008, 305-308



Цитира се в:

**1295.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

**378. Milchev, A.** Adsorption of multiblock and random copolymer on a solid surface: critical behavior and phase diagram. 2008

Цитира се в:

**1296.** Li, H., Qian, C.-J., Luo, M.-B. Critical adsorption of copolymer tethered on selective surfaces (2016) Journal of Chemical Physics, 144 (16), art. no. 164901, 10.1063/1.4947016

**1297.** Li, J., Zhang, Z., Zhou, X., Chen, T., Nie, J., Du, B. PNIPAmx-PPO36-PNIPAmx thermo-sensitive triblock copolymers: Chain conformation and adsorption behavior on a hydrophobic gold surface (2016) Physical Chemistry Chemical Physics, 18 (1), pp. 519-528. 10.1039/c5cp06079f

**1298.** Ziebarth, J.D., Wang, Y. Interactions of complex polymers with nanoporous substrate (2016) Soft Matter, 12 (24), pp. 5245-5256. 10.1039/c6sm00768f

**379. Milev, A.S., Tran, N., Kannangara, G.S.K., Wilson, M.A., Avramov, I.** Polymorphic transformation of iron-phthalocyanine and the effect on carbon nanotube synthesis. Journal of Physical Chemistry C, 112, 14, 2008, ISSN:19327447, DOI:10.1021/jp710923f, 5339-5347

Цитира се в:

**1299.** Huang Chao, Liu Ling-Yun, Fang Jun, Zhang Wen-Hua, Wang Kai, Gao Pin, Xu Fa-Qian, Acta Phys. Sin. 65, No. 15 (2016) 156101

**1300.** Alvarez, L; Almadori, Y; Belhboub, A; Le Parc, R; Aznar, R; Dieudonne-George, P; Rahmani, A; Hermet, P; Fossard, F; Loiseau, A; Jousseme, B; Campidelli, S; Saito, T; Wang, G; Bantignies, JL, J. NANOPHOTONICS, 10 (1): 10.1117/1.JNP.10.012514 JAN 2016

**1301.** Youngwon, Stanfield; Chung, Dong Young; Lee, Myeong Jae; Kang, Yun Sik; Shin, Heejong; Kim, Mi-Ju; Bielawski, Christopher W.; Sung, Yung-Eun, JOURNAL OF PHYSICAL CHEMISTRY C, 120 (43):24511-24520; 10.1021/acs.jpcc.6b04771 NOV 3 2016

**380. Kamburova, K., Milkova, V., Petkanchin, I., Radeva, T.** Effect of pectin charge density on formation of multilayer films with chitosan. Biomacromolecules, 9, 4, 2008, ISSN:15257797, DOI:10.1021/bm701232g, 1242-1247

Цитира се в:

**1302.** Silva, J.M., Reis, R.L., Mano, J.F., Biomimetic Extracellular Environment Based on Natural Origin Polyelectrolyte Multilayers, Small 4308-4342 (2016).

**381. Novaković, T., Radić, N., Grbić, B., Marinova, T., Stefanov, P., Stoychev, D.** Oxidation of n-hexane over Pt and Cu-Co oxide catalysts supported on a thin-film zirconia/stainless steel carrier. Catalysis Communications, 9, 6, Elsevier, 2008, ISSN:15667367, DOI:10.1016/j.catcom.2007.10.030, 1111-1118. SJR:1.081, ISI IF:3.699

Цитира се в:

**1303.** Rezaee, M; Kazemeini, M; Fattahi, M; Rashidi, A M; Vafajoo, L. Oxidation of H<sup>sub 2</sup>S to elemental sulfur over alumina-based nanocatalysts: Synthesis and physiochemical evaluations, Scientia Iranica. Transaction C, Chemistry, Chemical Engineering 23.3 (2016): 1160-1174.

- 382. Milchev, A.** Molecular dynamics simulations of capillary rise experiments in nanotubes coated with polymer brushes. 2008

Цумура се в:

- 1304.** Sedghi, M., Piri, M., Goual, L. Atomistic Molecular Dynamics Simulations of Crude Oil/Brine Displacement in Calcite Mesopores (2016) *Langmuir*, 32 (14), pp. 3375-3384. 10.1021/acs.langmuir.5b04713
- 1305.** Zheng, J., Zhang, J., Tan, L., Li, D., Huang, L., Wang, Q., Liu, Y. Effects of Aspect Ratio on Water Immersion into Deep Silica Nanoholes (2016) *Langmuir*, 32 (34), pp. 8759-8766. 10.1021/acs.langmuir.6b01575

- 383. Milkova, V., Radeva, Ts., Stoimenova, M.** Anomalous low-frequency electro-optic behavior of ferric oxide particles in the presence of poly(ethylene oxide). *Journal of Colloid and Interface Science*, 319, 2008, 435-440. ISI IF:3.637

Цумура се в:

- 1306.** Petrov, M.P., Shilov, V.N., Trusov, A.A., Voitylov, A.V., Vojtylov, V.V., Electro-optic research of polarizability dispersion in aqueous polydisperse suspensions of nanodiamonds, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 506, 40-49 (2016).

- 384. Panchev, N., Khristov, Khr., Czarnecki, J., Exerowa, D., Bhattacharjee, S., Masliyah, J.** A new method for water-in-oil emulsion film studies. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 315, 3-Jan, 2008, ISSN:9277757, DOI:10.1016/j.colsurfa.2007.07.013, 74-78

Цумура се в:

- 1307.** Moradi, Mehrnoosh; Alvarado, Vladimir, Influence of Aqueous-Phase Ionic Strength and Composition on the Dynamics of Water-Crude Oil Interfacial Film Formation, *Energy & Fuels* 30 11 (2016) 9170-9180.

- 385. Karamanov, A., Ergul, S., Akyildiz, M., Pelino, M.** Sinter-crystallization of a glass obtained from basaltic tuffs. *Journal of Non-Crystalline Solids*, 354, 9-Feb, 2008, ISSN:223093, DOI:10.1016/j.jnoncrysol.2007.07.040, 290-295

Цумура се в:

- 1308.** Elshafie, S. and Whittleston, G., 2016. Evaluating the Efficiency of Basalt and Glass Fibres on Resisting the Alkaline, Acid, and Thermal Environments. *American Journal of Materials Science*, 6(1), pp.19-34.

- 386. Karamanov, A., Pelino, M.** Induced crystallization porosity and properties of sintered diopside and wollastonite glass-ceramics. *Journal of the European Ceramic Society*, 28, 3, 2008, ISSN:9552219, DOI:10.1016/j.jeurceramsoc.2007.08.001, 555-562

Цумура се в:

- 1309.** Partyka, J, Leśniak, M., Raman and infrared spectroscopy study on structure and microstructure of glass-ceramic materials from SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>-Na<sub>2</sub>O-K<sub>2</sub>O-CaO system modified by variable molar ratio of SiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>, *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, Volume 152, 20 July 2016, Pages 82-91 ISSN: 1386-1425
- 1310.** de Pablos-Martin, A., Tismer, S., Benndorf, G., Mittag, M., Lorenz, M., Grundmann, M. and Höche, T., 2016. Laser soldering of sapphire substrates using a BaTiAl<sub>6</sub>O<sub>12</sub> thin-film glass sealant. *Optics & Laser Technology*, 81, pp.153-161.

- 1311.** Qing, Z., Li, B., Li, Y., Li, H. and Zhang, S., 2016. Microstructure and properties of ZnO doped Li<sub>2</sub>O–Al<sub>2</sub>O<sub>3</sub>–SiO<sub>2</sub> glass–ceramic for LTCC applications. *Journal of Materials Science: Materials in Electronics*, 27(2), pp.1597-1601.
- 1312.** Jo, H.J., Sun, G.N. and Kim, E.S., 2016. Enhanced Crystallization Behaviour and Microwave Dielectric Properties of 0.9 CaMgSi. *Journal of the Korean Ceramic Society*, 53(2), pp.139-144.
- 1313.** Partyka, J. and Leśniak, M., 2016. Preparation of glass–ceramic glazes in the SiO<sub>2</sub>–Al<sub>2</sub>O<sub>3</sub>–CaO–MgO–K<sub>2</sub>O–Na<sub>2</sub>O–ZnO system by variable content of ZnO. *Ceramics International*, 42(7), pp.8513-8524.
- 1314.** Lu, X., Li, Y., Dai, W. and Cang, D., 2016. Effect of composition and sintering process on mechanical properties of glass ceramics from solid waste. *Advances in Applied Ceramics*, 115(1), pp.13-20.
- 1315.** Yu, Y., Hao, X., Song, L., Li, Z. and Song, L., 2016. Synthesis and characterization of single phase and low temperature co-fired cordierite glass-ceramics from perlite. *Journal of Non-Crystalline Solids*, 448, pp.36-42.
- 1316.** Pekkan, G., Pekkan, K., Park, J. and Öztürk, A., 2016. A study on microstructural characterization of the interface between apatite-wollastonite based glass ceramic and feldspathic dental porcelain. *Ceramics International*. Volume 42, Issue 16, December 2016, Pages 19245–19249
- 1317.** Kashif, I., Ratep, A. Physi Effect of heat treatment on structural and physical properties of lithium borosilicate glass, *Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B*, 57, 2, 2016, 97-103
- 387. Nickolova, D., Stoyanova, E., Stoychev, D., Avramova, I., Stefanov, P.** Protective effect in sulfuric acid media of alumina and ceria oxide layers electrodeposited on stainless steel. *Surface and Coatings Technology*, 202, 9, Elsevier, 2008, ISSN:0257-8972, DOI:10.1016/j.surfcoat.2007.08.012, 1876-1888. SJR:0.96, ISI IF:1.998

Цитира се в:

- 1318.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и У за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 1319.** Fe/TiO<sub>2</sub> composite coatings modified by ceria layer: Electrochemical synthesis using environmentally friendly methanesulfonate electrolytes and application as photocatalysts for organic dyes degradation V.S. Protsenko, E.A. Vasil'eva, A.V. Tsurkan, A.A. Kityka S.A. Korniy, F.I. Danilov *Journal of Environmental Chemical Engineering*, <http://dx.doi.org/10.1016/j.jece.2016.11.034>
- 388. Milchev, A.** Evidence of thin-film precursors formation in hydrokinetic and atomistic simulations of nano-channel capillary filling. 2008
- Цитира се в:
- 1320.** Cao, B.-Y., Yang, M., Hu, G.-J. Capillary filling dynamics of polymer melts in nanopores: Experiments and rheological modelling (2016) *RSC Advances*, 6 (9), pp. 7553-7559. 10.1039/c5ra24991k
- 389. Milchev, A.** Electrocrystallization: Nucleation and growth of nano-clusters on solid surfaces. *Russian Journal of Electrochemistry*, 44, 6, 2008, ISSN:1023-1935, DOI:10.1134/S1023193508060025, 619-645. SJR:0.216

Цитира се в:

- 1321.** Gamburg, Y.D., Development of the electrocrystallization theory, Russian Journal of Electrochemistry, 52 (9) (2016) 832-846.
- 1322.** Isaev, V.A., Grishenkova, O.V., Zaykov, Y.P., Analysis of the geometrical-probabilistic models of electrocrystallization, Russian Metallurgy (Metally). 2016 (8) (2016) 776-784.
- 1323.** Ustarroz, J., Hubin, A., Terryn, H., New insights in nanoelectrodeposition: An electrochemical aggregative growth mechanism, 2016 Handbook of Nanoelectrochemistry: Electrochemical Synthesis Methods, Properties, and Characterization Techniques, pp. 1349-1378.

- 390. Lukanova, R., Stoyanova, E., Stoychev, D.** "Studies of the Formation of Ceria-based Protective Films as Alternative of Cr<sup>6+</sup> - based ones on Aluminium". In the Book "Nanoscale Phenomena and Structures", Edited by Prof. D. Kashchiev, Prof. M. Drinov Academic Publishing House, Sofia, 2008, 301-304

Цитира се в:

- 1324.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и У за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 391.** Hristova, E., Mitov, M., **Rashkov R., Arnaudova M.,** Popov, A.. Sulfide oxidation on electrodeposited Ni-Mo-W catalysts. Bulgarian Chemical Communications, 40, 3, 2008, ISSN:08619808, 291-294

Цитира се в:

- 1325.** Ni-W electrodeposited coatings: Characterization, properties and applications (Review) Allahyarzadeh, M.H., Aliofkhaeaei, M., Rezvanian, A.R., Torabinejad, V., Sabour Rouhaghdam, A.R.
- 392. Valova E., Armyanov S.** Localization and Chemical State of the Third Element in Electrolessly Deposited Nanocrystalline Ni-Zn-P, Ni-W-P and Co-W-P Coatings. Russian Electrochemistry, 44, 6, Springer, 2008, ISSN:ISSN: 1023-1935 (Print) 1608-3342 (Online), DOI:DOI: 10.1134/S1023193508060116, 709-715. ISI IF:0.692

Цитира се в:

- 1326.** T. Sakai, Y. Kamimoto, R. Ichino, Preparation of electrodeposited Zn-Ni-B alloy coatings, Japanese Journal of Applied Physics, 55, 01AA24 (2016).
- 393.** Dobrev, Ts., **Monev, M., Krastev, I.,** Zlatev, R.. Electrochemical methods for evaluation of the protective ability of electroplated coatings and conversion films. Bulg. Chem. Commun., 40, 3, BAS, 2008, ISSN:0324-1130, 198-203

Цитира се в:

- 1327.** Peng, D., Wu, J., Chang, L., Pang, K., Li, X. Preparation and corrosion behaviour of cerium based sol-gel composite coatings on AA2024-T4 aluminum alloy Electrochemistry, 84 (3) (2016) 143-150
- 394. Milchev, A.** Nucleation and growth of clusters through multi-step electrochemical reactions. Journal of Electroanalytical Chemistry, 612, 1, 2008, ISSN:1572-6657, DOI:10.1016/j.jelechem.2007.09.010, 42-46. SJR:0.752

Цитира се в:

**1328.** Ustarroz, J., Hubin, A., Terryn, H., New insights in nanoelectrodeposition: An electrochemical aggregative growth mechanism, (2016) Handbook of Nanoelectrochemistry: Electrochemical Synthesis Methods, Properties, and Characterization Techniques, pp. 1349-1378.

**395.** Novaković, T., Radić, N., Grbić, B., Dondur, V., Mitrić, M., Randjelović, D., **Stoychev, D.**, Stefanov, P.. The thermal stability of porous alumina/stainless steel catalyst support obtained by spray pyrolysis. Applied Surface Science, 255, 5 PART 2, 2008, ISSN:1694332, DOI:10.1016/j.apsusc.2008.08.074, 3049-3055. SJR:0.913, ISI IF:2.711

Цитира се в:

**1329.** Rezaee, M; Kazemeini, M; Fattahi, M; Rashidi, A M; Vafajoo, L. Oxidation of H<sup>2</sup>S to elemental sulfur over alumina-based nanocatalysts: Synthesis and physiochemical evaluations, Scientia Iranica. Transaction C, Chemistry, Chemical Engineering 23.3 (2016): 1160-1174.

**1330.** Yubin Kang, Jaeyoung Choi, Jinju Park, Woo-Byoung Kim, Kun-Jae Lee, Characterization of stainless steel surface processed using electrolytic oxidation and titanium complex ion solution, Applied Surface Science, Available online 20 October 2016, In Press, Corrected Proof

**396.** M. Febbo, **A. Milchev**, V. Rostiashvili, D. Dimitrov, T. A. Vilgis. Dynamics of a stretched nonlinear polymer chain.. 2008

Цитира се в:

**1331.** Gilles, F.M., Llubaroff, R., Pastorino, C. Fluctuation-induced forces between rings threaded around a polymer chain under tension (2016) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 94 (3), art. no. 032503 10.1103/PhysRevE.94.032503

**397.** **Guergova, D., Stoyanova, E., Stoychev, D.**, Atanasova, G., Avramova, I., Stefanov, P.. Influence of calcination of stainless steel OC4004 covered with alumina or ceria carrier layers on their passive state in different acid media. Bulgarian Chemical Communications, 40, 3, 2008, ISSN:8619808, 227-232. ISI IF:0.349

Цитира се в:

**1332.** Journal of Environmental Chemical Engineering Available online 25 November 2016, <http://dx.doi.org/10.1016/j.jece.2016.11.034> Fe/TiO<sub>2</sub> composite coatings modified by ceria layer: Electrochemical synthesis using environmentally friendly methanesulfonate electrolytes and application as photocatalysts for organic dyes degradation V.S. Protsenkoa,, , E.A. Vasil'evaa, A.V. Tsurkana, A.A. Kityka, S.A. Korniyb, F.I. Danilova

**1333.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

---

## 2009

---

**398.** **Milchev, A.** Forced-induced desorption of a polymer chain adsorbed on an attractive surface: Theory and computer experiment. 2009

Цитира се в:

**1334.** Kumar, S., Pattanayek, S.K., Pereira, G.G., Mohanty, S. Effect of Uniformly Applied Force and Molecular Characteristics of a Polymer Chain on Its Adhesion to Graphene Substrates (2016) Langmuir, 32 (11), pp. 2750-2760. 10.1021/acs.langmuir.5b04028

- 399. Milchev, A.** Capillary filling in microchannels with wall corrugations: a comparative study of the concus-finn criterion by continuum, kinetic, and atomistic approaches. 2009

Цумура се в:

- 1335.** Dhar, J., Jaggi, P., Chakraborty, S. Oscillatory regimes of capillary imbibition of viscoelastic fluids through concentric annulus (2016) RSC Advances, 6 (65), pp. 60117-60125. 10.1039/c6ra05002f
- 1336.** Giacomello, A., Schimmele, L., Dietrich, S. Wetting hysteresis induced by nanodefects (2016) Proceedings of the National Academy of Sciences of the United States of America, 113 (3), pp. E262-E271. 10.1073/pnas.1513942113

- 400.** Chibbaro, S., Biferale, L., Binder, K., Dimitrov, D., Diotallevi, F., **Milchev, A.** Hydrokinetic simulations of nanoscopic precursor films in rough channels. Journal of Statistical Mechanics: Theory and Experiment, 06, P06007, 2009, DOI:10.1088/1742-5468/2009/06/P06007, ISI IF:2.404

Цумура се в:

- 1337.** 1. Liu, G., Du, K., Wang, K., Surface wettability of TiO<sub>2</sub> nanotube arrays prepared by electrochemical anodization (2016) Applied Surface Science, 388, pp. 313-320.

- 401. Rashkov R., Arnaudova M., Avdeev G., Zielonka A., Jannakoudakis P., Jannakoudakis A., Theodoridou E.** NiW/TiO<sub>x</sub> composite layers as cathode material for hydrogen evolution reaction. International Journal of Hydrogen Energy, 34, 5, Elsevier, 2009, ISSN:0360-3199, DOI:10.1016/j.ijhydene.2009.01.001, 2095-2100. SJR:1.141, ISI IF:3.313

Цумура се в:

- 1338.** Kaiyue Zhanga, Junyao Li, Weihua Liu, Jianguo Liu, Chuanwei Yan, Electrocatalytic activity and electrochemical stability of Ni-S/CeO<sub>2</sub> composite electrode for hydrogen evolution in alkaline water electrolysis International Journal of Hydrogen Energy Volume 41, Issue 48, 28 December 2016, Pages 22643–22651

- 402. Alexandrova L., Hanumantha Rao, Forsberg K.S.E., Pugh R.J., L. Grigorov.** Three-phase-contact parameters measurements for silica- mixed cationic-anionic surfactant systems. Colloid and Surfaces A, Vol.348, -1-3, 2009, 228

Цумура се в:

- 1339.** . Wang, C., Cao, X.-L., Guo, L.-L., (...), Zhang, L., Zhao, S., Effect of molecular structure of cationic surfactant mixtures on their interfacial properties, Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 509, 20 November 2016, Pages 601-612
- 1340.** Wang, C., Cao, X.-L., Guo, L.-L., (...), Zhang, L., Zhao, S. Effect of adsorption of cationic surfactant mixtures on wettability of quartz surface, Colloids and Surfaces A: Physicochemical and Engineering Aspects., 2016, pp. 2016Volume 509, 20 November 2016, Pages 564-573
- 1341.** Wang, L., Liu, R., Hu, Y., Liu, J., Sun, W., Adsorption behavior of mixed cationic/anionic surfactants and their depression mechanism on the flotation of quartz, Powder Technology., 2016, pp. Volume 302, 1 November 2016, Pages 15-20
- 1342.** Zanini, M., Isa, L., Particle contact angles at fluid interfaces: Pushing the boundary beyond hard uniform spherical colloids, Journal of Physics Condensed Matter., 2016, pp. Volume 28, Issue 31, 14 June 2016, Article number 313002 ISSN: 09538984 CODEN: JCOMESource Type: Journal Original language: English

- 1343.** Wang, L., Liu, J., Sun, W., Hu, Y. The effect of mixed cationic/anionic surfactants with different

403. Jovi?, B.M., **Dobrovolska, Ts.**, La?njevac, U., **Krastev, I.**, Jovi?, V.D.. Characterization of electrodeposited Cd-Co alloy coatings by anodic linear sweep voltammetry. *Electrochimica Acta*, 54, 28, 2009, ISSN:134686, DOI:10.1016/j.electacta.2009.08.025, 7565-7572

Цумура се в:

1344. Fedi, B., Gigandet, M.P., Hihn, J.Y., Mierzejewski, S., Structure determination of electrodeposited zinc-nickel alloys: thermal stability and quantification using XRD and potentiodynamic dissolution, *Electrochimica Acta*, 215, (2016), 652-666

404. **Mirkova, L.**, **Monev, M.**, Petkova, N.. "Hydrogen evolution, diffusion and solution in Ni/based composite electrodeposits". *ECS Transactions*, 19, 10, 2009, ISBN:9.78161E+12, ISSN:19385862, DOI:10.1149/1.3237112, 105-112

Цумура се в:

1345. Danilov, F.I., Tsurkan, A.V., Vasil'Eva, E.A., Protsenko, V.S. Electrocatalytic activity of composite Fe/TiO<sub>2</sub> electrodeposits for hydrogen evolution reaction in alkaline solutions *International Journal of Hydrogen Energy* 41(18) (2016) 7363-7372

405. Fisak, J., **Stoyanova, V.**, Chaloupecki, P., Rezacova, D., Tsacheva, T., Kупenova, T., Marinov, M.. Soluble and insoluble pollutants in fog and rime water samples. *Soil and Water Research*, 4, SPECIAL ISSUE 2, 2009, ISSN:18015395, S123-S130. ISI IF:0.691

Цумура се в:

1346. Novak, M., Sipkova, A., Chrastny, V., Stepanova, M., Voldrichova, P., Veselovsky, F., Prechova, E., Blaha, V., Curik, J., Farkas, J., Erbanova, L., Bohdalkova, L., Pasava, J., Mikova, J., Komarek, A., Krachler, M., Cu-Zn isotope constraints on the provenance of air pollution in Central Europe: Using soluble and insoluble particles in snow and rime, *Environmental Pollution* 218 (2016) 1135–1146

406. Chibbaro, S., Costa, E., Dimitrov, D.I., Diotallevi, F., **Milchev, A.**, Palmieri, D., Pontrelli, G., Succi, S.. "Capillary filling in microchannels with wall corrugations: a comparative study of the concus-finn criterion by continuum, kinetic, and atomistic approaches". *Langmuir*, 25, 21, 2009, ISSN:7437463, DOI:10.1021/la901993r, 12653-12660

Цумура се в:

1347. Sergi, D., Camarano, A., Molina, J.M., Ortona, A., Narciso, J. Surface growth for molten silicon infiltration into carbon millimeter-sized channels: Lattice-Boltzmann simulations, experiments and models (2016) *International Journal of Modern Physics C*, 27 (6), art. no. 1650062, 10.1142/S0129183116500625

1348. Isele-Holder, R.E., Ismail, A.E. Classification of precursors in nanoscale droplets (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 93 (4), art. no. 043319, 10.1103/PhysRevE.93.043319

1349. Zheng, W.-X., Sun, C.-Z., Xiong, T., Lü, X.-M., Bai, B.-F. Effects of surface roughness on oil-water-solid three-phase contact line (2016) *Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics*, 37 (9), pp. 1901-1905.

407. **Ljutov, V.**, Georgiev, G., **Tsakova, V.**. Comparative study on the electrochemical synthesis of polyaniline in the presence of mono- and poly(2-acrylamido-2-methyl-1-propanesulfonic) acid. *Thin*

Цумупа се в:

- 1350.** Çavuş, S., Yıldıran M., Poly(ethylene glycol)/poly(2-acrylamido-2-methyl-1-propane sulfonic acid) gel electrolytes: a detailed investigation of their conductivity and characterization, *Ionics*, 22 (7) (2016) 1059-1073; doi:10.1007/s11581-016-1649-6
- 408.** Tegou, A., **Armyanov, S., Valova, E.**, Steenhaut, O., Hubin, A., Kokkinidis, G., Sotiropoulos, S.. Mixed platinum-gold electrocatalysts for borohydride oxidation prepared by the galvanic replacement of nickel deposits. *Journal of Electroanalytical Chemistry*, 634, 2, 2009, ISSN:220728, DOI:10.1016/j.jelechem.2009.07.016, 104-110

Цумупа се в:

- 1351.** J. Milikić, G. Ćirić-Marjanović, S. Mentus, D. M.F. Santos, C. A.C. Sequeira, B. Šljukić, Pd/c-PANI electrocatalysts for direct borohydride fuel cells, *Electrochim. Acta*, 213, 298–305 (2016).
- 1352.** P.-Y. Olu, N. Job, M. Chatenet, Evaluation of anode (electro)catalytic materials for the direct borohydride fuel cell: Methods and benchmarks, *J. Power Sources*, 327, 235-257 (2016)
- 1353.** G. Caballero-Manrique, I. M. Nadeem, E. Brillas, F. Centellas, J. A. Garrido, R. M. Rodríguez, P.-L. Cabot, Effects of the Electrodeposition Time in the Synthesis of Carbon-Supported Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Polymer Electrolyte Fuel Cells, *Catalysts*, 6, 125-138 pages (2016)
- 1354.** C. Song, D. Zhang, B. Wang, Z. Cai, P. Yan, Y. Sun, K. Ye, Uniformly grown PtCo-modified Co<sub>3</sub>O<sub>4</sub> nanosheets as a highly efficient catalyst for sodium borohydride electrooxidation, *Nano Research*, 9, 3322–3333 (2016).
- 409.** **Avramov, I.** Non-equilibrium viscosity and activation energy. *Journal of Non-Crystalline Solids*, 355, 34-36, 2009, ISSN:223093, DOI:10.1016/j.jnoncrysol.2009.07.006, 1769-1771

Цумупа се в:

- 1355.** Ikeda, M., Aniya, M. *Journal of Non-Crystalline Solids* 431, 2016, pp. 52 - 56
- 410.** Bhattacharya, S., Rostiashvili, VG, **Milchev, A.**, Vilgis, TA. Polymer desorption under pulling: A dichotomic phase transition. *Physical Review E*, 79, 3, 2009, DOI:DOI: 10.1103/PhysRevE.79.030802, 030802. ISI IF:2.288

Цумупа се в:

- 1356.** Kumar, S., Pattanayek, S.K., Pereira, G.G., Mohanty, S. Effect of Uniformly Applied Force and Molecular Characteristics of a Polymer Chain on Its Adhesion to Graphene Substrates (2016) *Langmuir*, 32 (11), pp. 2750-2760. 10.1021/acs.langmuir.5b04028
- 411.** Ergul, S., Ferrante, F., Piscicella, P., **Karamanov, A.**, Pelino, M.. Characterization of basaltic tuffs and their applications for the production of ceramic and glass-ceramic materials. *Ceramics International*, 35, 7, 2009, ISSN:2728842, DOI:10.1016/j.ceramint.2009.03.026, 2789-2795

Цумупа се в:

- 1357.** Ntouala, R.F.D., Onana, V.L., Kamgang, V. and Ekodeck, G.E., 2016. Mineralogical, geochemical and mechanical characterization of the Ayos (East-Cameroon) lateritic and alluvial clayey mixtures: Suitability for building application. *Journal of Building Engineering*, 5, pp.50-56.



**1358.** Bogoevski, S., Boškovski, B., Ruseska, G. and Atkovska, K., 2016. Concentration of carbonate admixture from opalized tuff into one separate fraction. *Geologica Macedonica*, 30(1), pp.89.

**412. Michailov, M.** Computational study of stripe alloy formation on stepped surfaces. *Physical Review B - Condensed Matter and Materials Physics*, 80, 3, 2009, ISSN:10980121, DOI:10.1103/PhysRevB.80.035425

*Цумура се в:*

**1359.** Paramita Ghosh, Madhav Ranganathan, "Role of  $2 \times 1$  surface reconstruction on Stranski-Krastanov growth illustrated using a modified solid-on-solid model" *Journal of Crystal Growth*, 2016

**413.** Yaneva, J., Dimitrov, D.I., **Milchev, A.**, Binder, K.. Nanoinclusions in polymer brushes with explicit solvent - A molecular dynamics investigation. *Journal of Colloid and Interface Science*, 336, 1, 2009, ISSN:219797, DOI:10.1016/j.jcis.2009.03.062, 51-58

*Цумура се в:*

**1360.** De Beer, S., Mensink, L.I.S., Kieviet, B.D. Geometry-Dependent Insertion Forces on Particles in Swollen Polymer Brushes (2016) *Macromolecules*, 49 (3), pp. 1070-1078. 10.1021/acs.macromol.5b01960

**1361.** Hua, Y., Zhang, D., Zhang, L. Compression-driven migration of nanoparticles in semiflexible polymer brushes (2016) *Polymer (United Kingdom)*, 83, pp. 67-76. 10.1016/j.polymer.2015.12.003

**1362.** Nie, G., Li, G., Wang, L., Zhang, X. Nanocomposites of polymer brush and inorganic nanoparticles: Preparation, characterization and application (2016) *Polymer Chemistry*, 7 (4), pp. 753-769. 10.1039/c5py01333j

**1363.** Ferhan, A.R., Kim, D.-H. Nanoparticle polymer composites on solid substrates for plasmonic sensing applications (2016) *Nano Today*, 11 (4), pp. 415-434. 10.1016/j.nantod.2016.07.001

**414.** Bhattacharya, A., Morrison, W.H., Luo, K., Ala-Nissila, T., Ying, S.-C., **Milchev, A.**, Binder, K.. Scaling exponents of forced polymer translocation through a nanopore. *European Physical Journal E*, 29, 4, 2009, ISSN:12928941, DOI:10.1140/epje/i2009-10495-5, 423-429

*Цумура се в:*

**1364.** Hsiao, P.-Y. Conformation change, tension propagation and drift-diffusion properties of polyelectrolyte in nanopore translocation (2016) *Polymers*, 8 (10), art. no. 378 DOI: 10.3390/polym8100378

**1365.** Zhang, C., Lin, X., Yang, H. Theoretical model of biomacromolecule through nanopore including effects of electrolyte and excluded volume (2016) *Applied Mathematics and Mechanics (English Edition)*, 37 (6), pp. 787- 802. 10.1007/s10483-016-2082-6

**1366.** Vollmer, S.C., De Haan, H.W. Translocation is a nonequilibrium process at all stages: Simulating the capture and translocation of a polymer by a nanopore (2016) *Journal of Chemical Physics*, 145 (15), art. no. 154902 DOI: 10.1063/1.4964630

**1367.** Hsiao, P.-Y. Polyelectrolyte threading through a nanopore (2016) *Polymers*, 8 (3), art. no. 73, 10.3390/polym8030073

**415. Georgieva, J., Armyanov, S., Poullos, I., Sotiropoulos, S..** An all-solid photoelectrochemical cell for the photooxidation of organic vapours under ultraviolet and visible light illumination. *Electrochemistry Communications*, 11, 8, 2009, ISSN:13882481, DOI:10.1016/j.elecom.2009.06.019, 1643-1646

Цумура се в:

- 1368.** T. Stoll, G. Zafeiropoulos, M.N. Tsampas, Solar fuel production in a novel polymeric electrolyte membrane photoelectrochemical (PEM-PEC) cell with a web of titania nanotube arrays as photoanode and gaseous reactants, Intern. J. of Hydrogen Ener., 41, 17807-17817 (2016)
- 416.** Yaneva, S., Petrov, K., Petrov, R., Stoichev, N., **Avdeev, G.**, Kuziak, R.. Influence of silicon content on phase development in Al-Fe-V-Si alloys. Materials Science and Engineering A, 515, 2-Jan, 2009, ISSN:9215093, DOI:10.1016/j.msea.2009.02.026, 59-65

Цумура се в:

- 1369.** Physical Review E - Statistical, Nonlinear, and Soft Matter Physics Volume 93, Issue 3, 7 March 2016, Article number 032603 Dynamic evolution process of multilayer core-shell microstructures within containerlessly solidifying Fe50Sn50 immiscible alloy (Article) Wang, W.L., Wu, Y.H., Li, L.H., Geng, D.L., Wei, B.
- 1370.** Materials Science and Engineering A Volume 659, April 06, 2016, Pages 207-214 Microstructure and mechanical properties of Al-Fe-V-Si aluminum alloy produced by electron beam melting (Article) Sun, S., Zheng, L., Peng, H., Zhang, H
- 417.** Kotsmar, Cs., **Arabadzhieva, D.**, Khristov, Khr., **Mileva, E.**, Grigoriev, D.O., Miller, R., **Exerowa, D.**. Adsorption layer and foam film properties of mixed solutions containing  $\beta$ -casein and C12DMPO. Food Hydrocolloids, 23, 4, 2009, ISSN:0268005X, DOI:10.1016/j.foodhyd.2008.07.022, 1169-1176

Цумура се в:

- 1371.** Dimitrova, L.M., Petkov, P.V., Kralchevsky, P.A., Stoyanov, S.D., Pelan, E.G., Production and characterization of stable foams with fine bubbles from solutions of hydrophobin HFBII and its mixtures with other proteins, Colloids and Surfaces A: Physicochemical and Engineering Aspects, (2016), Article in Press, ISSN: 09277757
- 418.** **Ranguelov, B.S.**, Markov, I.V.. Adatom diffusion on vicinal surfaces with permeable steps. Central European Journal of Physics, 7, 2, Versita, 2009, ISSN:18951082, DOI:10.2478/s11534-009-0048-2, 350-355

Цумура се в:

- 1372.** Zhao, R., Evans, J.W., Oliveira, T.J., Permeability and kinetic coefficients for mesoscale BCF surface step dynamics: Discrete two-dimensional deposition-diffusion equation analysis, Physical Review B - Condensed Matter and Materials Physics, volume 93, Issue 16, 8 April 2016, Article number 165411
- 1373.** Krzyzewski, F., et al. "Step bunching and macrostep formation in 1D atomistic scale model of unstable vicinal crystal growth." arXiv preprint arXiv:1601.07371 (2016).
- 419.** **Karamanov, A.** Granite like materials from hazardous wastes obtained by sintercrystallisation of glass frits. Advances in Applied Ceramics, 108, 1, 2009, ISSN:17436753, DOI:10.1179/174367608X364302, 14-21

Цумура се в:

- 1374.** Tsakova V., The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew", Chemistry, 25, 2016, 35-67
- 420.** **Avramov, I.** "Relationship between diffusion, self-diffusion and viscosity". Journal of Non-Crystalline Solids, 355, 12-Oct, 2009, ISSN:223093, DOI:10.1016/j.jnoncrsol.2009.02.009, 745-747

Цумура се в:

**1375.** Rohit Pandey, Satya Harpalani, Ruimin Feng, Yanna Liang, Fuel 03/2016; 179.  
DOI:10.1016/j.fuel.2016.03.065

**421.** Boiadjieva, T., **Monev, M.**, Tomandl, A., Kronberger, H., Fafilek, G.. Electrochemical studies on Zn deposition and dissolution in sulphate electrolyte. Journal of Solid State Electrochemistry, 13, 5, 2009, ISSN:14328488, DOI:10.1007/s10008-008-0594-3, 671-677

Цумура се в:

**1376.** Said Sharif Mahboob, Kirsten Swanson, Jose Alberto Gonzalez, Jeffrey L. Shepherd On the use of atomic force microscopy and scaling analysis to quantify the roughness of zinc electrodeposits produced from an industrial acid sulfate electrolyte containing glue Journal of Applied Electrochemistry, 46 (5) (2016) 539–549.

**422.** **Stoylov, S.P., Gyurova, A.Y.,** Bunin, V., Angersbach, A., Georgieva, R.N., Danova, S.T.. Electric dipole moments of Escherichia coli HB 101. Bioelectrochemistry, 75, 1, 2009, ISSN:15675394, DOI:10.1016/j.bioelechem.2009.02.001, 50-54. ISI IF:4.172

Цумура се в:

**1377.** Ziegler, A., Schock-Kusch, D., Kapoustina, V., Braun, F., Dounia, S., Stahl, U., Rädle, M., Influence of the Nutrient Medium on the Motion Characteristics of Bacillus amyloliquefaciens, Chemie-Ingenieur-Technik, 88 (2016) 809-817.

**423.** **Exerowa, D.,** Gotchev, G., Kolarov, T., Kristov, Khr., Levecke, B., Tadros, Th.. Comparison of oil-in-water emulsion films produced using ABA or ABn copolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 335, 3-Jan, 2009, ISSN:9277757, DOI:10.1016/j.colsurfa.2008.10.025, 50-54

Цумура се в:

**1378.** Andrew M. Bodratti, Biswajit Sarkar, Paschalis Alexandridis, Adsorption of Poly(ethylene oxide)-containing amphiphilic polymers on solid-liquide interfaces, Adv. Colloid Interface Sci., (2016) 09/2016; DOI: 10.1016/j.cis.2016.09.003

**424.** **Exerowa, D.,** Platikanov, D.. Thin liquid films from aqueous solutions of non-ionic polymeric surfactants. Advances in Colloid and Interface Science, 147-148, C, 2009, ISSN:18686, DOI:10.1016/j.cis.2008.08.012, 74-87

Цумура се в:

**1379.** Kawaguchi, Masami, Silicone oil emulsions stabilized by polymers and solid particles, Adv. Colloid Interface Sci., 233 (2016) 186-199

**1380.** Andrew M. Bodratti, Biswajit Sarkar, Paschalis Alexandridis, Adsorption of Poly(ethylene oxide)-containing amphiphilic polymers on solid-liquide interfaces, Adv. Colloid Interface Sci., (2016) 09/2016; DOI: 10.1016/j.cis.2016.09.003

**425.** **Gyurova, A.Y., Zhivkov, A.M.** Influence of ethanol on the high frequency electric polarizability of E. coli. Biophysical Chemistry, 139, 1, 2009, ISSN:3014622, DOI:10.1016/j.bpc.2008.09.017, 8-12. ISI IF:1.986

Цумура се в:

**1381.** M.P. Petrov, V.N. Shilov, A.A. Trusov, A.V. Voitylov, V.V. Vojtylov, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 506 (2016) 40-49.

1382. Petrov, M.P., Shilov, V.N., Trusov, A.A., Voitylov, A.V., Vojtylov, V.V., Electro-optic research of polarizability dispersion in aqueous polydisperse suspensions of nanodiamonds, *Colloids and Surfaces A*, 506 (2016) 40-49.

---

## 2010

---

426. **Milchev, A.** Spherical polymer brushes under good solvent conditions: Molecular dynamics results compared to density functional theory. 2010

Цумура се в:

1383. Chen, G., Li, H., Das, S. Scaling Relationships for Spherical Polymer Brushes Revisited (2016) *Journal of Physical Chemistry B*, 120 (23), pp. 5272-5277. 10.1021/acs.jpcc.6b01609
1384. Posel, Z., Posocco, P., Lescar, M., Fermeglia, M., Pricl, S. Highly grafted polystyrene/polyvinylpyridine polymer gold nanoparticles in a good solvent: Effects of chain length and composition (2016) *Soft Matter*, 12 (15), pp. 3600-3611. 10.1039/c5sm02867a
1385. Biagi, S., Rovigatti, L., Sciortino, F., Misbah, C. Surface wave excitations and backflow effect over dense polymer brushes (2016) *Scientific Reports*, 6, art. no. 22257, 10.1038/srep22257

427. **Kashchiev, D.** Atomistic theory of amyloid fibril nucleation. 2010

Цумура се в:

1386. Šarić, Anđela, et al. "Kinetics of spontaneous filament nucleation via oligomers: insights from theory and simulation." *The Journal of Chemical Physics* 145.21 (2016): 211926.
1387. Zhang, Lingyun, and Jeremy D. Schmit. "Pseudo-one-dimensional nucleation in dilute polymer solutions." *Physical Review E* 93.6 (2016): 060401.

428. **Tchoukov P.,** Czarnecki J., Dabros, T.. Study of water-in-oil thin liquid films: Implications for the stability of petroleum emulsions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 372, 1, 2010, ISSN:09277757, 15-21. SJR:0.793

Цумура се в:

1388. Yang, Fan. "Bitumen fractions responsible for stabilizing water in oil emulsions." PhD diss., University of Alberta, 2016
1389. Moradi, Mehrnoosh, and Vladimir Alvarado. "Influence of Aqueous-Phase Ionic Strength and Composition on the Dynamics of Water-Crude Oil Interfacial Film Formation." *Energy & Fuels* 30, no. 11 (2016): 9170-9180
1390. Kailey, Ishpinder. "Properties and Performance of Newly Developed Demulsifiers in Oil Sands Froth Treatment." *Energy & Fuels*, Volume 30, Issue 11, 17 November 2016, Pages 9233-9241
1391. Liang, Chen. "Design and Application of Responsive Composite Particles for Multiphase Separations of Bitumen Emulsions in Bituminous (Oil) Sands Extraction." PhD diss., University of Alberta, 2016
1392. Kuznicki, Natalie Paige. "Probing Deformable Oil-Water Interfaces by Atomic Force Microscopy and Cascade Partial Coalescence Measurements." PhD diss., University of Alberta, 2016

429. **Kashchiev, D.** Insight into the correlation between lag time and aggregation rate in the kinetics of protein aggregation. 2010

Цитира се в:

- 1393.** Kutsch, Miriam, et al. "Dissecting ion-specific from electrostatic salt effects on amyloid fibrillation: A case study of insulin." *Biointerphases* 11.1 (2016): 019008.
- 1394.** Schlein, Morten. "Insulin Formulation Characterization—the Thioflavin T Assays." *The AAPS Journal* (2016): 1-12, DOI: 10.1208/s12248-016-0028-6

- 430.** Atanasova, G., **Guergova, D., Stoychev, D.,** Naydenov, A., Stefanov, P.. Preparation and characterization of catalytic thin films for exhaust emission control. *Reaction Kinetics, Mechanisms and Catalysis*, 101, 2, Springer, 2010, ISSN:18785190, DOI:10.1007/s11144-010-0228-5, 397-406. SJR:0.459, ISI IF:1.17

Цитира се в:

- 1395.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 1396.** Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films Localized defect states and charge trapping in atomic layer deposited-Al<sub>2</sub>O<sub>3</sub> films Karsten Henkel, Malgorzata Kota), and Dieter SchmeißerView AffiliationsBTU Cottbus-Senftenberg, Applied Physics and Sensors, Konrad-Wachsmann-Allee 17, 03046 Cottbus, Germany)Electronic mail: malgorzata.sowinska@b-tu.de DOI: <http://dx.doi.org/10.1116/1.4971991> Free Published Online: December 2016 Accepted: November 2016

- 431.** **Dobrovolska, Ts., Krastev, I.,** Zielonka, A.. Pattern formation in electrodeposited silver-cadmium alloys. *ECS Transactions*, 25, 20, 2010, ISBN:9.78157E+12, ISSN:19385862, DOI:10.1149/1.3301126, 1-9

Цитира се в:

- 1397.** V.D Jovic, Chapter 7 Electrodeposited Alloys and Multilayered Structures in Popov, K.I.; Djokic S.S.; Nikolic, N.D.; Jovic, V.D., *Morphology of electrochemically and chemically deposited metals*, © Springer International Publishing Switzerland 2016, ISBN 978-3-319-26071-6 ISBN 978-3-319-26073-0 (eBook) DOI 10.1007/978-3-319-26073-0.

- 432.** Hrussanova, A., **Krastev, I.,** Beck, G., Zielonka, A.. Properties of silver-tin alloys obtained from pyrophosphate-cyanide electrolytes containing EDTA salts. *Journal of Applied Electrochemistry*, 40, 12, 2010, ISSN:0021891X, DOI:10.1007/s10800-010-0196-5, 2145-2151

Цитира се в:

- 1398.** V.D Jovic, Chapter 7 Electrodeposited Alloys and Multilayered Structures in Popov, K.I.; Djokic S.S.; Nikolic, N.D.; Jovic, V.D., *Morphology of electrochemically and chemically deposited metals*, © Springer International Publishing Switzerland 2016, ISBN 978-3-319-26071-6 ISBN 978-3-319-26073-0 (eBook) DOI 10.1007/978-3-319-26073-0.

- 433.** N. Tsakiris, **I. Avramov,** P. Argyrakis, C. Bocker, C. Ruessel. Crystal growth model with stress development and relaxation. *EPL*, 89, 2010, DOI:10.1209/0295-5075/89/18004, ISI IF:2.095

Цитира се в:

- 1399.** M. Rubbo, M. Bruno, *Colloid Journal*, 78, (5) 2016pp 658–668

- 434.** **Milchev, A.,** Zapryanova, T., Danilov, A.. Growth kinetics of single copper crystals: The concentration dependence. *Russian Journal of Electrochemistry*, 46, 6, 2010, ISSN:1023-1935,

Цумура се в:

- 1400.** Isaev, V.A., Grishenkova, O.V., Semerikova, O.L., Kosov, A.V., Zaykov, Y.P., Nucleation and growth of metal nanocrystals during electrocrystallization in melts, Russian Metallurgy (Metally), 2016 (8) (2016) 742-745.
- 1401.** Isaev, V.A., Grishenkova, O.V., Zaykov, Y.P., Analysis of the geometrical–probabilistic models of electrocrystallization, Russian Metallurgy (Metally) 2016 (8) (2016) 776-784.

- 435. Stoyanova, A., Tsakova, V.** Copper-modified poly(3,4-ethylenedioxythiophene) layers for selective determination of dopamine in the presence of ascorbic acid: II Role of the characteristics of the metal deposit. Journal of Solid State Electrochemistry, 14, 11, 2010, ISSN:14328488, DOI:10.1007/s10008-010-1017-9, 1957-1965. ISI IF:2.446

Цумура се в:

- 1402.** V.T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016

- 436. Stoyanova, A., Tsakova, V.** Copper-modified poly(3,4-ethylenedioxythiophene) layers for selective determination of dopamine in the presence of ascorbic acid: I. Role of the polymer layer thickness. Journal of Solid State Electrochemistry, 14, 11, 2010, ISSN:14328488, DOI:10.1007/s10008-010-1007-y, 1947-1955. ISI IF:2.446

Цумура се в:

- 1403.** V.T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016

- 437. Ivanov, S., Lange, U., Tsakova, V., Mirsky, V.M.** Electrocatalytically active nanocomposite from palladium nanoparticles and polyaniline: Oxidation of hydrazine. "Sensors and Actuators, B: Chemical", 150, 1, 2010, ISSN:9254005, DOI:10.1016/j.snb.2010.07.004, 271-278

Цумура се в:

- 1404.** B. J. Waghmode, Z. Husain, M. Joshi, S. D. Sathaye, K. R. Patil, D. D. Malkhede, Synthesis and study of calixarene-doped polypyrrole-TiO<sub>2</sub>/ZnO composites: Antimicrobial activity and electrochemical sensors, J. Polymer, Res. (2016) 23-35.
- 1405.** Y. Liu, Z. Qui, Q. Wan, Z. Wang, K. Wu, N. Yang, High-Performance hydrazine sensor based on graphene nano platelets supported metal nanoparticles, Electroanalysis 28 (2016) 126-132.
- 1406.** W. Marmisolle, O. Azzaroni, Recent developments in the layer-by-layer assembly of polyaniline and carbon nanomaterials for energy storage and sensing applications. from synthetic aspects to structural and functional characterization, Nanoscale, 8 (2016) 9890-9918.
- 1407.** S. Zhao, L. Wang, T. Wang, Q. Han, S. Xu, A high-performance hydrazine electrochemical sensor based on gold nanoparticles/single-walled carbon nanohorns composite film, Appl. Surface, Sci. 369 (2016), 36 – 42.
- 1408.** C. C. Kocak, A. Altin, B. Aslisen, S. Kocak, Electrochemical preparation and characterization of gold and platinum nanoparticles modified poly(taurine) film electrode and its application to hydrazine determination, Int. j. Electrochem. Sci, 11 (2016) 233-249.
- 1409.** V V Kondratiev, V V Malev, S N Eliseeva, Composite electrode materials based on conducting polymers loaded with metal nanostructures, Russ. Chem. Rev. 85 (2016) 14 – 37.

- 1410.** N. Karami, M. A. Karimi, E. Atin, Synthesis of nanostructured palladium, palladium oxide and palladium-palladium oxide nanocomposite by the gel combustion method and application as catalyst of hydrogen release, *Iranian Chem. Commun.* 4, (2016) 437 – 453.
- 1411.** D. Gioia, I.G. Casella, Pulsed electrodeposition of palladium nano-particles on coated multi-walled carbon nanotubes/naftion composite substrates: Electrocatalytic oxidation of hydrazine and propranolol in acid conditions, *Sensors and Actuators B: Chemical*, 237, (2016) 400 – 407.
- 1412.** S. Shukla, A. Umar, S. Chaudhary, G.R. Chaudhary, S.K. Kansal, S. K. Mehta, Bare and cationic surfactants capped tungsten trioxide nanoparticles based hydrazine chemical sensors: A comparative study, *Sensors and Actuators B: Chemical*, 230, (2016) 571 – 580.
- 1413.** J. Kamieniak, E. Bernalte, C. W. Foster, A. M. Doyle, P. J. Kelly, C. E. Banks, High Yield Synthesis of Hydroxyapatite (HAP) and Palladium Doped HAP via a Wet Chemical Synthetic Route, *Catalysis*, 6 (2016) 119; doi:10.3390/catal6080119
- 1414.** S. Ameen, M. Sh. Akhtar H. Sh. Shin, Manipulating the structure of polyaniline by exploiting redox chemistry: Novel p-NiO/n-polyaniline/n-Si Schottky diode based chemosensor for the electrochemical detection of hydrazinobenzene, *Electrochim. Acta*, 215 (2016), 200-211.
- 1415.** M.M. Rahman, J. Ahmed, A.M. Asiri, I.A. Siddiquey, M.A. Hasnat, Development of highly-sensitive hydrazine sensor based on facile CoS<sub>2</sub>-CNT nanocomposites, *RSC Advances*, 6 (2016) 90470-90479
- 1416.** P. Malik, M. Srivastava, R. Verma, M. Kumar, D. Kumar, J. Singh, Nanostructured SnO<sub>2</sub> encapsulated guar-gum hybrid nanocomposites for electrocatalytic determination of hydrazine, *Mat. Sci. Eng. C*, 58 (2016) 432-441.
- 1417.** E. G. Toistopaytova, Y. K. Saidova, A. M. Smolin, N. P. Novoselov, V. V. Kondratiev, Synthesis of a water dispersion of the PEDOT:PSS/Pd composite and its use for the fabrication of an electrochemical sensor for hydrazine, *J. Anal. Chem.* 71 (2016)195-200.
- 438.** **Milchev, A.**, Dimitrov, D.I., Binder, K.. Polymer brushes with nanoinclusions under shear: A molecular dynamics investigation. *Biomicrofluidics*, 4, 3, 2010, ISSN:19321058, DOI:10.1063/1.3396446
- Цумура се е:*
- 1418.** Nie, G., Li, G., Wang, L., Zhang, X. Nanocomposites of polymer brush and inorganic nanoparticles: Preparation, characterization and application (2016) *Polymer Chemistry*, 7 (4), pp. 753-769. 10.1039/c5py01333j
- 1419.** Ferhan, A.R., Kim, D.-H. Nanoparticle polymer composites on solid substrates for plasmonic sensing applications (2016) *Nano Today*, 11 (4), pp. 415-434. 10.1016/j.nantod.2016.07.001
- 439.** Zawala, J., **Todorov, R.**, Olszewska, A., **Exerowa, D.**, Malysa, K.. Influence of pH of the BSA solutions on velocity of the rising bubbles and stability of the thin liquid films and foams. *Adsorption*, 16, 5-Apr, 2010, ISSN:9295607, DOI:10.1007/s10450-010-9232-3, 423-435
- Цумура се е:*
- 1420.** Ulaganathan V. PhD thesis, University of Potsdam, 2016
- 1421.** Ulaganathan V., Gochev G., Gehin-Delval C., Leser M.E., Gunes D.Z., Miller R. “Effect of pH and electrolyte concentration on rising air bubbles in  $\beta$ -lactoglobulin solutions” *Colloid Surf A* 505: 165-170, 2016
- 440.** **Milkova, V.**, **Kamburova, K.**, **Radeva, T.**, Stoimenova, M.. Electrical properties of polyelectrolyte layers adsorbed on colloidal particles at different ionic strength. *Langmuir*, 26, 18, 2010, ISSN:7437463, DOI:10.1021/la102428k, 14488-14493

Цумура се в:

**1422.** Zhou, S., Change of electrostatic potential of mean force between two curved surfaces due to different salt composition, ion valence and size under certain ionic strength, *J. Phys. Chem. Solids* 89, 53-61 (2016)

**441. Georgieva, J., Armyanov, S., Poullos, I., Jannakoudakis, A.D., Sotiropoulos, S.** Gas phase photoelectrochemistry in a polymer electrolyte cell with a titanium dioxide/carbon/nafion photoanode. *Electrochemical and Solid-State Letters*, 13, 10, 2010, ISSN:10990062, DOI:10.1149/1.3465306, P11-P13

Цумура се в:

**1423.** T. Stoll, G. Zafeiropoulos, M.N. Tsampas, Solar fuel production in a novel polymeric electrolyte membrane photoelectrochemical (PEM-PEC) cell with a web of titania nanotube arrays as photoanode and gaseous reactants, *Intern. J. of Hydrogen Ener.*, 41, 17807-17817 (2016)

**442. Gutzow, I., Todorova, S., Jordanov, N.** Kinetics of chemical reactions and phase transitions at changing temperature: General reconsiderations and a new approach. *Bulgarian Chemical Communications*, 42, 2, 2010, ISSN:8619808, 79-102

Цумура се в:

**1424.** J. L. Amorós, E. Blasco, A. Moreno, M. P. Gómez-Tena, Sintering of raw glazes for floor and porcelain tiles: A non-isothermal kinetic model, *Ceramics International*, 42, 14 (2016) 16169-16179. ISSN: 0272-8842

**443. Lange, U., Ivanov, S., Lyutov, V., Tsakova, V., Mirsky, V.M.** Voltammetric and conductometric behavior of nanocomposites of polyaniline and gold nanoparticles prepared by layer-by-layer technique. *Journal of Solid State Electrochemistry*, 14, 7, 2010, ISSN:14328488, DOI:10.1007/s10008-009-0922-2, 1261-1268

Цумура се в:

**1425.** G. Thirivikraman, G Madras, B. Basu, Electrically driven intracellular and extracellular nanomanipulators evoke neurogenic/cardiomyogenic differentiation in human mesenchymal stem cells, *Biomaterials* 77 (2016) 26-43.

**1426.** Kondratiev, V.V., Malev, V.V., Eliseeva, S.N., Composite electrode materials based on conducting polymers loaded with metal nanostructures, *Russian Chemical Reviews*, 85 (1) (2016) 14-37.; DOI: 10.1070/RCR4509

**1427.** Marmisollé, W.A., Azzaroni, O., Recent developments in the layer-by-layer assembly of polyaniline and carbon nanomaterials for energy storage and sensing applications. From synthetic aspects to structural and functional characterization, *Nanoscale*, 8 (19) (2016) 9890-9918; DOI: 10.1039/c5nr08326e

**444. Kashchiev, D., Auer, S.** Nucleation of amyloid fibrils. *Journal of Chemical Physics*, 132, 21, 2010, ISSN:219606, DOI:10.1063/1.3447891

Цумура се в:

**1428.** Šarić, Andela, et al. "Kinetics of spontaneous filament nucleation via oligomers: insights from theory and simulation." *The Journal of Chemical Physics* 145.21 (2016): 211926.

**1429.** Liu, Hongchen, et al. "Negatively charged hydrophobic nanoparticles inhibit amyloid  $\beta$ -protein fibrillation: The presence of an optimal charge density." *Reactive and Functional Polymers* 103 (2016): 108-116.



- 1430.** Eugene, Sarah, et al. "Insights into the variability of nucleated amyloid polymerization by a minimalistic model of stochastic protein assembly." *The Journal of chemical physics* 144.17 (2016): 175101.
- 1431.** Mondal, Shrabani, et al. "Rate laws of the self-induced aggregation kinetics of Brownian particles." *Physica A: Statistical Mechanics and its Applications* 445 (2016): 128-137.
- 1432.** Zhang, Lingyun, and Jeremy D. Schmit. "Pseudo-one-dimensional nucleation in dilute polymer solutions." *Physical Review E* 93.6 (2016): 060401.
- 1433.** Michel, Denis. "Modeling generic aspects of ideal fibril formation." *The Journal of chemical physics* 144.3 (2016): 035101.

- 445. Milchev, A., Egorov, S.A., Binder, K..** Absorption/expulsion of oligomers and linear macromolecules in a polymer brush. *Journal of Chemical Physics*, 132, 18, 2010, ISSN:219606, DOI:10.1063/1.3414996

*Цумура се в:*

- 1434.** Ilnytskyi, J.M., Bryk, P., Patrykiewicz, A. Pressure-driven flow of oligomeric fluid in nano-channel with complex structure. A dissipative particle dynamics study (2016) *Condensed Matter Physics*, 19 (1), art. no. 13609, 10.5488/CMP.19.13609

- 446. Avramov, I., Avramova, K., R?ssel, C..** Useful method to analyze data on overall transformation kinetics. *Journal of Non-Crystalline Solids*, 356, 23-24, 2010, ISSN:223093, DOI:10.1016/j.jnoncrysol.2010.03.004, 1201-1203. ISI IF:1.766

*Цумура се в:*

- 1435.** Jasiurkowska-Delaporte, M; Napolitano, S; Leys, J; Juszynska-Galazka, E; Wubbenhorst, M; Massalska-Arodz, M, *JOURNAL OF PHYSICAL CHEMISTRY B*, 120 (47):12160-12167; 10.1021/acs.jpcc.6b06303 DEC 1 2016

- 447. Bocker, C., Avramov, I., R?ssel, C..** Experimental evidence of high pressure during crystallization of glass - The formation of an orthorhombic high-pressure BaF<sub>2</sub> phase. *Scripta Materialia*, 62, 10, 2010, ISSN:13596462, DOI:10.1016/j.scriptamat.2010.01.053, 814-817

*Цумура се в:*

- 1436.** Manjeet S. Dahiya, Satish Khasa, Arti Yadav, shima Hooda, J. *Thermal Analysis and Calorimetry* 06 1-9 (2016); DOI:10.1007/s10973-016-5622-4
- 1437.** Manjeet S. Dahiya, Satish Khasa, Arti Yadav, shima Hooda, J. *Thermal Analysis and Calorimetry* 06/2016; DOI:10.1007/s10973-016-5622-4
- 1438.** G Krieke, A Sarakovskis - *Journal of the European Ceramic Society*, 2016, doi:10.1016/j.jeurceramsoc.2016.01.025

- 448. Kashchiev, D., Borissova, A., Hammond, R.B., Roberts, K.J..** Dependence of the critical undercooling for crystallization on the cooling rate. *Journal of Physical Chemistry B*, 114, 16, American Chemical Society, 2010, ISSN:15206106, DOI:10.1021/jp100202m, 5441-5446

*Цумура се в:*

- 1439.** Sosso, Gabriele C., et al. "Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations." *Chemical reviews* 116 (12) (2016) 7078–7116
- 1440.** Turner, T. D., et al. "The influence of solution environment on the nucleation kinetics and crystallisability of para-aminobenzoic acid." *Physical Chemistry Chemical Physics* 18.39 (2016): 27507-27520.

**1441.** Luo, Mengjie, et al. "Determination of metastable zone width of potassium sulfate in aqueous solution by ultrasonic sensor and FBRM." *Journal of Crystal Growth* (2016), DOI: 10.1016/j.jcrysgro.2016.09.006

**449. Valova, E., Georgieva, J., Armyanov, S., Sotiropoulos, S., Hubin, A., Baert, K., Raes, M.** Morphology, structure and photoelectrocatalytic activity of TiO<sub>2</sub> / WO<sub>3</sub> coatings obtained by pulsed electrodeposition onto stainless steel. *Journal of the Electrochemical Society*, 157, 5, 2010, ISSN:134651, DOI:10.1149/1.3356001, D309-D315. ISI IF:3.266

*Цумупа се в:*

**1442.** T. T. Guaraldo, V. R. Gonçales, B. F. Silva, S. I. C. de Torresi, M. V. B. Zanoni, Hydrogen production and simultaneous photoelectrocatalytic pollutant oxidation using a TiO<sub>2</sub>/WO<sub>3</sub> nanostructured photoanode under visible light irradiation, *J. Electroanal. Chem.*, 765, 188-196 (2016)

**1443.** X. Peng, C. He, Q. Liu, X. Wang, H. Wang, Y. Zhang, Q. Ma, K. Zhang, Y. Han, H. Wang, Strategic Surface Modification of TiO<sub>2</sub> nanorods by WO<sub>3</sub> and TiCl<sub>4</sub> for the Enhancement in Oxygen Evolution Reaction, *Electrochim. Acta*, 222, 1112–1119 (2016)

**1444.** A. Dan, J. Jyothi, K. Chattopadhyay, H. C. Barshilia, B. Basu, Spectrally selective absorber coating of WAlN/WAlON/Al<sub>2</sub>O<sub>3</sub> for solar thermal applications, *Solar Energy Materials and Solar Cells*, 157, 716–726 (2016)

**450.** Auer, S., **Kashchiev, D.** Phase diagram of  $\alpha$ -helical and  $\beta$ -sheet forming peptides. *Physical Review Letters*, 104, 16, 2010, ISSN:319007, DOI:10.1103/PhysRevLett.104.168105

*Цумупа се в:*

**1445.** Buell, Alexander K. "The Nucleation of Protein Aggregates-From Crystals to Amyloid Fibrils." *International Review of Cell and Molecular Biology* (2016), doi.org/10.1016/bs.ircmb.2016.08.014

**1446.** Zierenberg, Johannes, Martin Marenz, and Wolfhard Janke. "Dilute Semiflexible Polymers with Attraction: Collapse, Folding and Aggregation." *Polymers* 8.9 (2016): 333.

**451.** Papadimitriou, S., **Armyanov, S., Valova, E.,** Hubin, A., Steenhaut, O., Pavlidou, E., Kokkinidis, G., Sotiropoulos, S.. "Methanol oxidation at Pt-Cu, Pt-Ni, and Pt-Co electrode coatings prepared by a galvanic replacement process". *Journal of Physical Chemistry C*, 114, 11, 2010, ISSN:19327447, DOI:10.1021/jp911568g, 5217-5223

*Цумупа се в:*

**1447.** Y. Cao, Y. Yang, Y. Shan, Z. Huang, One-Pot and Facile Fabrication of Hierarchical Branched Pt-Cu Nanoparticles as Excellent Electrocatalysts for Direct Methanol Fuel Cells, *ACS Appl. Mater. Interfaces*, 8 (9), 5998–6003 (2016) DOI: 10.1021/acsami.5b11364

**1448.** L. Liu, X. Qin, P. Zhang, A. Xu, M. Dai, Q. Xie, Preparation of rough Pt modified Au electrode by silver staining and galvanic replacement reactions for amperometric and fuel-cell-based sensing of ethanol, *Sens. Actuat. B: Chem.*, 230, 77-86 (2016).

**1449.** Y. Liao, G. Yu, Y. Zhang, T. Guo, F. Chang, C.-J. Zhong, Composition-Tunable PtCu Alloy Nanowires and Electrocatalytic Synergy for Methanol Oxidation Reaction, *J. Phys. Chem. C*, 120, 10476–10484, (2016) DOI: 10.1021/acs.jpcc.6b02630

**1450.** Y. Zhang, C. Lu, G. Zhao, Z. Wang, Facile synthesis of gold–platinum dendritic nanostructure with enhanced electrocatalytic performance for methanol oxidation reaction, *RSC Adv.*, 6, 51569-51574 (2016) DOI: 10.1039/C6RA06370E

- 1451.** Z. Al Amri, M. P. Mercer, N. Vasiljevic, Surface Limited Redox Replacement Deposition of Platinum Ultrathin Films on Gold: Thickness and Structure Dependent Activity towards the Carbon Monoxide and Formic Acid Oxidation reactions, *Electrochim. Acta*, 210, 520-529 (2016)
- 1452.** V. V. Kuznetsov, R. S. Batalov, B. I. Podlovchenko, nPdo ( $Hx-2n MoO_3$ ) composites as catalysts of methanol and formic acid electrooxidation, *Russ. J. Electrochemistry*, 52, 408-419 (2016)
- 1453.** J. M. M. Tengco, B. A. T. Mehrabadi, Y. Zhang, A. Wongkaew, J. R. Regalbuto, J. W. Weidner, J. R. Monnier, Synthesis and Electrochemical Evaluation of Carbon Supported Pt-Co Bimetallic Catalysts Prepared by Electroless Deposition and Modified Charge Enhanced Dry Impregnation, *Catalysts*, 6 (6), 83- (2016) doi:10.3390/catal6060083
- 1454.** R. Devasenathipathy, K. Kohilarani, S.-M. Chen, S.-F. Wang, Electrochemical Synthesis of Bi/Pt Bimetallic Nanodendrites for the Electrooxidation of Methanol, *Int. J. Electrochem. Sci.*, 11, 5441-5447 (2016)
- 1455.** В. Цакова, Институтът по физикохимия „Академик Ростислав Каишев“ – носител и продължител на традицията на българската физикохимична школа, *Khimiya/Chemistry: Bulgarian Journal of Science Education*, 25, 35-67 (2016)
- 1456.** F. Lei, Z. Li, L. Zhang, Y. Wang, S. Xu, S. Lin, Facile synthesis of Pt-Cu (Ni, Co)/GNs-CD and their enhanced electro-catalytic activity for methanol oxidation, *J. Electrochem. Soc.*, 163, F913-F918 (2016).
- 1457.** S. Kavian, S. N. Azizi, S. Ghasemi, Fabrication of novel nanozeolite-supported bimetallic Pt-Cu nanoparticles modified carbon paste electrode for electrocatalytic oxidation of formaldehyde, *Intern. J. Hydr. Ener.*, 41, 14026-14035 (2016)
- 1458.** Y. Zuo, T. Li, H. Ren, G. Zhu, K. Han, L. Zhuang, H. Han, Self-assembly of Pt-based truncated octahedral crystals into metal-frameworks towards enhanced electrocatalytic activity, *J. Mater. Chem. A*, 4, 15169-15180 (2016), DOI: 10.1039/C6TA05936H RSC
- 1459.** R. Li, Z. Ma, F. Zhang, H. Meng, M. Wang, X.-Q. Bao, B. Tang, X. Wanga, Facile Cu<sub>3</sub>P-C hybrid supported strategy to improve Pt nanoparticle electrocatalytic performance toward methanol, ethanol, glycol and formic acid electro-oxidation, *Electrochim. Acta*, 220, 193-204 (2016)
- 1460.** C. Zhang, T. Wang, X. Liu, Y. Ding, Cu-promoted Pt/activated carbon catalyst for glycerol oxidation to lactic acid, *J. Molecular Catalysis A: Chemical*, 424, 91-97 (2016)
- 1461.** M. Mohammadtaheri, R. Ramanathan, V. Bansal, Emerging applications of metal-TCNQ based organic semiconductor charge transfer complexes for catalysis, *Catalysis Today*, 278, 319-329 (2016).
- 1462.** Y.-N. Wu, H.-F. Guo, P. Hu, X.-P. Xiao, Z.-W.g Xiao, S.-Jun Liao, A Comparative Study on Ternary Low-Platinum Catalysts with Various Constructions for Oxygen Reduction and Methanol Oxidation Reactions, *NANO: Brief Reports and Reviews*, 11, 1650081 (10 pages) (2016).
- 1463.** D.J. Guo, X.Q. Hu, Y.B. Xu, Fabrication of Platinum-Iridium Alloys Coated Nanoporous Gold Film and Catalytic Performance for Methanol Electro-Oxidation, *Energy & Environm. Focus*, 5, 116-120(5) (2016).
- 1464.** X. Peng, D. Chen, X. Yang, D. Wang, M. Li, C.-C. Tseng, R. Panneerselvam, X. Wang, W. Hu, J. Tian, Y. Zhao, Microwave-assisted Synthesis of Highly Dispersed PtCu Nanoparticles on Three-Dimensional Nitrogen-doped Graphene Networks with Remarkably Enhanced Methanol Electrooxidation, *ACS Appl. Mater. Interfaces*, 8, 33673-33680 (2016).
- 1465.** B. Rezaei, S. Saeidi-Boroujeni, E. Havakeshian, A. A. Ensafi, Highly efficient electrocatalytic

oxidation of glycerol by Pt-Pd/Cu trimetallic nanostructure electrocatalyst supported on nanoporous stainless steel electrode using galvanic replacement, *Electrochim. Acta*, 203, 41-50 (2016).

- 1466.** E. Lee, Y.-U. Kwon, *Ultrasonics Sonochemistry, Multi-Component Electrocatalyst for Low-Temperature Fuel Cells Synthesized via Sonochemical Reactions*, 29, 401-412 (2016)
- 1467.** M. Huang, C. Wu, L. Guan, *Chemical corrosion of PtRuCu6/C for highly efficient methanol oxidation*, *J. Power Sources*, 306, 489-494 (2016)
- 1468.** H. Rostami, A. A. Rostami, A. Omrani, *Poly (p-phenylenediamine/TiO<sub>2</sub>) nanocomposite promoted Pt/C catalyst for methanol and ethanol electrooxidation in alkaline medium* *Electrochim. Acta*, 191, 536-547 (2016)
- 1469.** Y. Shen, A. C. Lua, J. Xi, X. Qiu, *Ternary Platinum-Copper-Nickel Nanoparticles Anchored to Hierarchical Carbon Supports as Free-Standing Hydrogen Evolution Electrodes*, *ACS Appl. Mater. Interfaces*, 8 (5) 3464–3472 (2016), DOI: 10.1021/acsami.5b11966

- 452.** **V. Tsakova.** *Metal-based composites of conducting polymers. Nanostructured Conductive Polymers*, John Wiley&Sons, 2010, ISBN:978-0-470-74585-4, 289-340

*Цумура се в:*

- 1470.** V V Kondratiev, V V Malev, S N Eliseeva, *Composite electrode materials based on conducting polymers loaded with metal nanostructures*, *Russ. Chem. Rev.* 85 (2016) 14 – 37.

- 453.** **Kashchiev, D.,** Borissova, A., Hammond, R.B., Roberts, K.J.. *Effect of cooling rate on the critical undercooling for crystallization.* *Journal of Crystal Growth*, 312, 5, 2010, ISSN:220248, DOI:10.1016/j.jcrysro.2009.12.031, 698-704

*Цумура се в:*

- 1471.** Sosso, Gabriele C., et al. "Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations." *Chemical reviews* 116 (12) (2016) 7078–7116
- 1472.** Turner, T. D., et al. "The influence of solution environment on the nucleation kinetics and crystallisability of para-aminobenzoic acid." *Physical Chemistry Chemical Physics* 18.39 (2016): 27507-27520.
- 1473.** Xu, Shijie, et al. "Nucleation behavior of eszopiclone-butyl acetate solutions from metastable zone widths." *Chemical Engineering Science* 155 (2016): 248-257.
- 1474.** Xia, Y., et al. "Molecular dynamics studies on the correlation of undercoolability and thermophysical properties of liquid Ni–Al alloys." *Computational Materials Science* 112 (2016): 383-394.
- 1475.** Luo, Mengjie, et al. "Determination of metastable zone width of potassium sulfate in aqueous solution by ultrasonic sensor and FBRM." *Journal of Crystal Growth* (2016), DOI: 10.1016/j.jcrysro.2016.09.006
- 1476.** Shiau, Lie-Ding. "Comparison of the interfacial energy and pre-exponential factor calculated from the induction time and metastable zone width data based on classical nucleation theory." *Journal of Crystal Growth* 450 (2016): 50-55.
- 1477.** Mahmoudi, Badri, Parisa Naeiji, and Farshad Varaminian. "Study of tetra-n-butylammonium bromide and tetrahydrofuran hydrate formation kinetics as a cold storage material for air conditioning system." *Journal of Molecular Liquids* 214 (2016): 96-100.

- 454.** **Stoyanova, E., Guergova, D., Stoychev, D.,** Avramova, I., Stefanov, P.. *Passivity of OC404 steel*

modified electrochemically with CeO<sub>2</sub>-Ce<sub>2</sub>O<sub>3</sub> layers in sulfuric acid media. *Electrochimica Acta*, 55, 5, Elsevier, 2010, ISSN:134686, DOI:10.1016/j.electacta.2009.10.057, 1725-1732. SJR:1.288, ISI IF:4.504

Цитирана се в:

- 1478.** Kozhukharov, S. V. (2016) Deposition of Environmentally Compliant Cerium-Containing Coatings and Primers on Copper-Containing Aluminium Aircraft Alloys, in *Biobased and Environmental Benign Coatings* (eds A. Tiwari, A. Galanis and M. D. Soucek), John Wiley & Sons, Inc., Hoboken, NJ, USA. doi: 10.1002/9781119185055.ch2 Book Series: Materials Degradation and Failure Series ISBN Information Print ISBN: 9781119184928 Online ISBN: 9781119185055
- 1479.** Mizuhata, M., Kubo, Y. & Maki, H., Electrodeposition of cerium oxide on porous silicon via anodization and enhancement of photoluminescence, *Appl. Phys. A* (2016) 122: 103. doi:10.1007/s00339-015-9562-9
- 1480.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и У за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 455.** **Tonchev, V., Rangelov, B.,** Omi, H., Pimpinelli, A.. Scaling and universality in models of step bunching: The "C+ - C-" model. *European Physical Journal B*, 73, 4, 2010, ISSN:14346028, DOI:10.1140/epjb/e2010-00036-3, 539-546. ISI IF:1.345

Цитирана се в:

- 1481.** Yuan Li, Xuejiang Chen, Juan Su, Study on formation of step bunching on 6H-SiC (0001) surface by Kinetic Monte Carlo Method, *Applied Surface Science* 371, (2016) 242 – 247.
- 456.** Bhattacharyya, S., H?che, T., Jinschek, J.R., **Avramov, I.**, Wurth, R., M?ller, M., R?ssel, C.. Direct evidence of al-rich layers around nanosized ZrTiO<sub>4</sub> in glass: putting the role of nucleation agents in perspective. *Crystal Growth and Design*, 10, 1, 2010, ISSN:15287483, DOI:10.1021/cg9009898, 379-385

Цитирана се в:

- 1482.** J Yang, B Liu, S Zhang, AA Volinsky - *Journal of Alloys and Compounds*, 688 709-714; 10.1016/j.jallcom.2016.07.027 A DEC 15 2016
- 1483.** Dahiya, MS; Yadav, A; Manyani, N; Chahal, S; Hooda, A; Agarwal, A; Khasa, S., *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*, 126 (3):1191-1199; 10.1007/s10973-016-5622-4 DEC 2016
- 1484.** Manjeet S. Dahiya, Satish Khasa, Arti Yadav, shima Hooda, J. *Thermal Analysis and Calorimetry* 06/2016; DOI:10.1007/s10973-016-5622-4
- 1485.** Fu Q, Wheaton BR, Geisinger KL, Credle AJ and Wang J (2016) Crystallization, Microstructure, and Viscosity Evolutions in Lithium Aluminosilicate Glass-Ceramics.*Front. Mater.* 3:49. doi: 10.3389/fmats.2016.00049
- 457.** Koleva D.A., **Boshkov N., Bachvarov V.,** Zhan H., de Wit J.H.W., Van Breugel K.. Application of PEO113-b-PS218 nano-aggregates for improved protective characteristics of composite zinc coatings in chloride-containing environment. *Surface and Coatings Technology*, 204, 23, 2010, ISSN:0257-8972, 3760-3772. ISI IF:1.998

Цитирана се в:

- 1486.** Stankiewicz, A., Barker, M.B., “Development of self-healing coatings for corrosion protection

on metallic structures”, (2016), Smart Materials and Structures, 25, (8), art. No. 084013.

- 1487.** Luo, J., Du, Z., Tai, X., Wang, W., Wu, J., Ding, B., Wang, P., “One-pot preparation of Nano-SiO<sub>2</sub> using a silane derivative as a coupling agent”, (2016), Tenside, Surfactants, Detergents, 53, (3), 278-283.
- 1488.** Crina, C.A., Lidia, B., Pierre, P., “Phenol-Formaldehyde resin to improve corrosion resistance of zinc layers, (2016), Key Engineering Materials, 699, 63-70.
- 1489.** Crina, C.A., Lidia, B., Pierre, P., “Corrosion resistance of zinc–resin hybrid coatings obtained by electro-codeposition”, (2016), Arabian Journal of Chemistry, <http://dx.doi.org/10.1016/j.arabjc.2016.07.002>

- 458.** Atanasova, G., **Guergova, D., Stoychev, D., Radić, N., Grbić, B., Stefanov, P.** Preparation and characterization of Al<sub>2</sub>O<sub>3</sub> thin films for catalytic activity studies. Solid State Phenomena, 159, Trans Tech Publications Ltd, 2010, ISSN:10120394, DOI:10.4028/www.scientific.net/SSP.159.91, 91-96. SJR:0.29

Цитира се в:

- 1490.** Karsten Henkel, Malgorzata Kot and Dieter Schmeißer, Localized defect states and charge trapping in atomic layer deposited-Al<sub>2</sub>O<sub>3</sub> films, Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films, Volume 35, Issue 1 > 10.1116/1.4971991
- 1491.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

- 459.** **Exerowa, D.,** Platikanov, D.. Chapter 3 in: “Nanoscience: Colloidal and Interfacial Aspects”. CRC Press, 2010, 26

Цитира се в:

- 1492.** Kaledin, Leonid A.; Tepper, Fred; Kaledin, Tatiana G., Pristine point of zero charge (p.p.z.c.) and zeta potentials of boehmite's nanolayer and nanofiber surfaces, Int. J. Smart and Nano Materials 7 1 (2016) 1-21.

- 460.** **Milchev, A., Klushin, L., Skvortsov, A., Binder, K.** Ejection of a polymer chain from a nanopore: Theory and computer experiment. Macromolecules, 43, 16, 2010, DOI:10.1021/ma1003826, 6877-6885. ISI IF:5.8

Цитира се в:

- 1493.** Zhou, L.-Q., Yu, W.-C., Chen, Y.-H., Luo, K.-F. Ejection dynamics of semiflexible polymers out of a nanochannel (2016) Chinese Journal of Polymer Science (English Edition), 34 (10), pp. 1196-1207. 10.1007/s10118-016-1842-0

---

## 2011

---

- 461.** Estrella-Gutiérrez, M.A., **Dobrovoltska, Ts., Lopez-Sauri, D.A., Veleva, L., Krastev, I.** Self - Organization phenomena during electrodeposition of Co - In alloys. ECS Transactions, 36, 1, 2011, ISBN:9.78161E+12, ISSN:19385862, DOI:10.1149/1.3660621, 275-281

Цитира се в:

- 1494.** Golvano-Escobal, I., Gonzalez-Rosillo, J.C., Domingo, N., Illa, X., Lopez-Barberá, J.F., Fornell, J., Solsona, P., Aballe, L., Foerster, M., Surināch, S., Baro, M.D., Puig, T., Pané, S., Nogués, J.,

Pellicer, E., Sort, J., Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks, *Scientific Reports*, 6, 2016 6:30398 | DOI: 10.1038/srep30398 (open access).

**1495.** Golvano-Escobal, Irati; de Dios Sirvent, Juan; Ferran-Marqués, Marta; Surinach, Santiago; Baro, Maria Dolores; Pané, Salvador; Sort, Jordi; Pellicer, Eva, Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure, *Materials&Design*, 2016, ISSN/ISBN 0264-1275, doi: 10.1016/j.matdes.2016.11.088

**462.** Harizanova, R., Gugov, I., Russel, C., **Tatchev, D.**, Raghuvanshi, V.S., Hoell, A.. Crystallization of (Fe, Mn)-based nanoparticles in sodium-silicate glasses. *Journal of Materials Science*, 46, 22, Springer, 2011, ISSN:222461, DOI:10.1007/s10853-011-5840-x, 7169-7176. ISI IF:2.371

Цумура се в:

**1496.** Ivanova, O.S., Ivantsov, R.D., Edelman, I.S., Petrakovskaja, E.A., Velikanov, D.A., Zubavichus, Y.V., Zaikovskii, V.I., Stepanov, S.A., Identification of  $\epsilon$ -Fe<sub>2</sub>O<sub>3</sub> nano-phase in borate glasses doped with Fe and Gd, *Journal of Magnetism and Magnetic Materials*, 401, 880-889, 2016

**463.** Radić, N., Grbić, B., Rozić, L., Novaković, T., Petrović, S., **Stoychev, D.**, Stefanov, P.. Effects of organic additives on alumina coatings on stainless steel obtained by spray pyrolysis. *Journal of Non-Crystalline Solids*, 357, 21, Elsevier, 2011, ISSN:223093, DOI:10.1016/j.jnoncrysol.2011.07.006, 3592-3597. SJR:0.753, ISI IF:1.766

Цумура се в:

**1497.** Marianne Nofz (Division 5.6 “Glas”, Bundesanstalt für Materialforschung und – prüfung, „Alumina Thin Films“ in “Handbook of Sol-Gel Science and Technology”, pp 1-44, Springer Verlag, Date: 11 May 2016 Latest Version

**1498.** Atomic layer deposition of aluminum oxide on modified steel substrates Kukli, K., Salmi, E., Jõgiaas, T., Zabels, R., Schuisky, M., Westlinder, J., Mizohata, K., Ritala, M., Leskelä, M. *Surface and Coatings Technology* volume 304, issue, year 2016, pp. 1 - 8

**1499.** Kaupo Kukli, Emma Salmi, Taivo Jõgiaas, Markku Leskelä, Atomic layer deposition of aluminum oxide on modified steel substrates, *Surface and Coatings Technology* • June 2016, DOI: 10.1016/j.surfcoat.2016.06.064

**464.** **Khristov, K., Petkova, H., Alexandrova, L.**, Nedyalkov, M., Platikanov, D., **Exerowa, D.**, Beetge, J.. "Foam, emulsion and wetting films stabilized by polyoxyalkylated diethylenetriamine (DETA) polymeric surfactants". *Advances in Colloid and Interface Science*, 168, 2-Jan, 2011, ISSN:18686, DOI:10.1016/j.cis.2011.07.001, 105-113

Цумура се в:

**1500.** Velasquez Ingrid; Munoz, Aaron; Pereira, Juan C., Tuning Interfacial Activity of Polymeric Resin-Surfactant/n-Alcohol Solution Interactions, *J. Surfactants&Detergents*, 19 5 (2016) 1025-1032

**465.** Gotchev, G., Kolarov, T., **Khristov, K., Exerowa, D.** Electrostatic and steric interactions in oil-in-water emulsion films from Pluronic surfactants. *Advances in Colloid and Interface Science*, 168, 2-Jan, 2011, ISSN:18686, DOI:10.1016/j.cis.2011.05.001, 79-84

Цумура се в:

**1501.** Kawaguchi, Masami, Silicone oil emulsions stabilized by polymers and solid particles, *Adv. Colloid Interface Sci.*, 233 (2016) 186-199

**1502.** Andrew M. Bodratti, Biswajit Sarker, Paschalis Alexandridis, Adsorption of Poly(ethylene oxide)-containing amphiphilic polymers on solid-liquid interfaces, *Adv. Colloid Interface Sci.*, (2016) 09/2016; DOI: 10.1016/j.cis.2016.09.003

**466.** Milchev, A. Fractional Brownian motion approach to polymer translocation: The governing equation of motion. 2011

Цумура се в:

**1503.** Delorme, M., Wiese, K.J. Perturbative expansion for the maximum of fractional Brownian motion (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 94 (1), art. no. 012134, 10.1103/PhysRevE.94.012134

**1504.** Delorme, M., Wiese, K.J. Extreme-value statistics of fractional Brownian motion bridges (2016) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 94 (5), art. no. 052105, 10.1103/PhysRevE.94.052105

**467.** Lyutov, V., Tsakova, V.. Palladium-modified polysulfonic acid-doped polyaniline layers for hydrazine oxidation in neutral solutions. *Journal of Electroanalytical Chemistry*, 661, 1, 2011, ISSN:15726657, DOI:10.1016/j.jelechem.2011.07.043, 186-191

Цумура се в:

**1505.** Tolstopyatova, E.G., Saidova, Y.K., Smolin, A.M., Novoselov, N.P., Kondrat'ev, V.V., Synthesis of a Water Dispersion of the PEDOT:PSS/Pd Composite and Its Use for the Fabrication of an Electrochemical Sensor for Hydrazine, *Journal of Analytical Chemistry*, 71 (2) (2016) 195-200, DOI: 10.1134/S1061934816020131

**1506.** F. Xu, Y. Liu, S. Xie, L. Wang, Electrochemical preparation of a three dimensional PEDOT-Cu<sub>2</sub>O hybrid for enhanced oxidation and sensitive detection of hydrazine, *Anal. Methods*, 8 2 (2016) 316-325. DOI: 10.1039/C5AY02465J

**1507.** C. C. Kocak, A. Altin, B. Aslisen, S. Kocak, Electrochemical preparation and characterization of gold and platinum nanoparticles modified poly(aurine) film electrode and its application to hydrazine determination, *Int. J. Electrochem. Sci*, 11 (2016) 233-249.

**1508.** H. Heydari, M.B. Gholivand, A. Abdolmaleki, Cyclic voltammetry deposition of copper nanostructure on MWCNTs modified pencil graphite electrode: An ultra-sensitive hydrazine sensor, *Mat. Sci., Eng.: C*, 66 (2016) 16 – 24.

**1509.** S.S. Ermakov, K.G. Nikolaev, V.P. Tolstoy, Novel electrochemical sensors with electrodes based on multilayers fabricated by layer-by-layer synthesis and their analytical potential, *Russian Chemical Reviews*, 8 (2016) 880-900.

**1510.** J. Hu, Z. Zhao, J. Zhang, G. Li, P. Li, W. Zhang, K. Lian, Synthesis of palladium nanoparticle modified reduced graphene oxide and multi-walled carbon nanotube hybrid structures for electrochemical applications, *Appl. Surface Sci.* (2016) DOI: 10.1016/j.apsusc.2016.10.187

**468.** Binder, K., Kreer, T., Milchev, A.. Polymer brushes under flow and in other out-of-equilibrium conditions. *Soft Matter*, 7, 16, 2011, ISSN:1744683X, DOI:10.1039/c1sm05212h, 7159-7172

Цумура се в:

**1511.** Lang, M., Werner, M., Dockhorn, R., Kreer, T. Arm Retraction Dynamics in Dense Polymer Brushes (2016) *Macromolecules*, 49 (14), pp. 5190-5201. 10.1021/acs.macromol.6b00761

**1512.** Shagolsem, L.S., Kreer, T., Galuschko, A., Sommer, J.-U. Diblock-copolymer thin films under shear (2016) *Journal of Chemical Physics*, 145 (16), art. no. 16490810.DOI:1063/1.4966151



1513. Kreer, T. Polymer-brush lubrication: A review of recent theoretical advances (2016) *Soft Matter*, 12 (15), pp. 3479-3501. 10.1039/c5sm02919h
1514. Chenneviere, A., Cousin, F., Boue, F., Drockenmuller, E., Shull, K.R., Leger, L., Restagno, F. Direct Molecular Evidence of the Origin of Slip of Polymer Melts on Grafted Brushes (2016) *Macromolecules*, 49 (6), pp. 2348-2353. 10.1021/acs.macromol.5b02505
1515. Hua, Y., Zhang, D., Zhang, L. Compression-driven migration of nanoparticles in semiflexible polymer brushes (2016) *Polymer (United Kingdom)*, 83, pp. 67-76. 10.1016/j.polymer.2015.12.003
1516. Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew" (2016) *Chemistry*, 25 (1), pp. 35-67
469. Tegou, A., Papadimitriou, S., Mintsouli, I., **Armyanov, S., Valova, E.**, Kokkinidis, G., Sotiropoulos, S.. Rotating disc electrode studies of borohydride oxidation at Pt and bimetallic Pt-Ni and Pt-Co electrodes. *Catalysis Today*, 170, 1, 2011, ISSN:9205861, DOI:10.1016/j.cattod.2011.01.003, 126-133

Цумура ce в:

1517. C. Grimmer, M. Grandi, R. Zacharias, B. Cermenek, H. Weber, C. Moraisc, T. W. Napporn, S. Weinberger, A. Schenk, V. Hacker, The electrooxidation of borohydride: A mechanistic study on palladium (Pd/C) applying RRDE, 11B-NMR and FTIR, *Appl. Catalysis B: Environm.*, 180, 614-621 (2016).
1518. V. Kepenienė, L. Tamašauskaitė-Tamašiūnaitė, J. Jablonskienė, M. Semaško, J. Vaičiūnienė, R. Vaitkus, E. Norkus, One-pot synthesis of graphene supported platinum-cobalt nanoparticles as electrocatalysts for methanol oxidation, *Materials Chemistry and Physics*, 171, 145-152 (2016)
1519. M. Zhang, Y. Li, D. Pan, Z. Yan, S. Meng, J. Xie, Nickel core-Palladium shell nanoparticles growing on nitrogen-doped graphene with enhanced electrocatalytic performance for ethanol oxidation, *RSC Adv.*, 6, 33231-33239 (2016), DOI: 10.1039/C6RA06416G
1520. D. Duan, H. Liu, Q. Wang, Y. Wang, S. Liu, Kinetics of sodium borohydride direct oxidation on carbon supported Cu-Ag bimetallic nan catalysts, *Electrochim. Acta*, 198, 212-219 (2016)
1521. J. M. M. Tengco, B. A. T. Mehrabadi, Y. Zhang, A. Wongkaew, J. R. Regalbuto, J. W. Weidner, J. R. Monnier, Synthesis and Electrochemical Evaluation of Carbon Supported Pt-Co Bimetallic Catalysts Prepared by Electroless Deposition and Modified Charge Enhanced Dry Impregnation, *Catalysts*, 6 (6), 83- (2016) doi:10.3390/catal6060083
1522. I. Khalakhan, M. Vorokhta, M. Václavů, B. Šmíd, J. Lavková, I. Matolínová, R. Fiala, N. Tsud, T. Skála, V. Matolín, In-situ electrochemical atomic force microscopy study of aging of magnetron sputtered Pt-Co nanoalloy thin films during accelerated degradation test, *Electrochim. Acta*, 211, 52-58 (2016)
1523. T. Kilmonis, L. Tamasauskaite-Tamasiunaite, A. Balčiunaite, J. Vaičiuniene, M. Skapas, E. Norkus, Microwave-Assisted synthesis of platinum-Tungsten/ graphene catalysts, *Chemija*, 27, 143-149 (2016).
470. **Karamanova, E., Avdeev, G., Karamanov, A.** "Ceramics from blast furnace slag, kaolin and quartz". *Journal of the European Ceramic Society*, 31, 6, 2011, ISSN:9552219, DOI:10.1016/j.jeurceramsoc.2011.01.006, 989-998

Цумура ce в:

1524. Perná, I. and Hanzlíček, T., 2016. The setting time of a clay-slag geopolymer matrix: the influence of blast-furnace-slag addition and the mixing method. *Journal of Cleaner Production*, 112, pp.1150-1155.

1525. Oluwasola, E.A., Hainin, M.R. and Aziz, M.M.A., 2016. Comparative evaluation of dense-graded and gap-graded asphalt mix incorporating electric arc furnace steel slag and copper mine tailings. *Journal of Cleaner Production*, 122, pp.315-325.
1526. Shi, H., Feng, K.Q., Wang, H.B., Chen, C.H. and Zhou, H.L., 2016. Influence of aluminium nitride as a foaming agent on the preparation of foam glass-ceramics from high-titanium blast furnace slag. *International Journal of Minerals, Metallurgy, and Materials*, 23(5), pp.595-600.
1527. Zhao, L., Li, Y., Zhang, L. and Cang, D., Effects of CaO and Fe<sub>2</sub>O<sub>3</sub> on the Microstructure and Mechanical Properties of SiO<sub>2</sub>-CaO-MgO-Fe<sub>2</sub>O<sub>3</sub> Ceramics from Steel Slag. *ISIJ International*, pp.ISIJINT-2016.
1528. XIE, C., GUI, Y., SONG, C. and HU, B., 2016. EFFECT OF CaO/SiO<sub>2</sub> AND HEAT TREATMENT ON THE MICROSTRUCTURE OF GLASS-CERAMICS FROM BLAST FURNACE SLAG. *Ceramics-Silikáty*, 60(2), pp.146-151.
1529. Kritikaki, A., Zaharaki, D. and Komnitsas, K., Valorization of Industrial Wastes for the Production of Glass-Ceramics. *Waste and Biomass Valorization*, pp.1-14. DOI 10.1007/s12649-016-9480-x
1530. Andreola, F., Barbieri, L., Lancellotti, I., Leonelli, C. and Manfredini, T., 2016. Recycling of industrial wastes in ceramic manufacturing: State of art and glass case studies. *Ceramics International*. Volume 42, Issue 12, September Pages 13333-13338
1531. Tsakova V., The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew", *Chemistry*, 25, 2016, 35-67
1532. Liu, J., Xiao, H., Influence of nucleation agent on crystallization of blast furnace slag glass ceramics, *Kuei Suan Jen Hsueh Pao/Journal of the Chinese Ceramic Society*, 44, 6, 878-883
1533. Teo, P.T., Sharif, N.M. Effects of EAF slag's milling time and firing temperature to EAF slag added ceramic tile's properties Lim, C.S., *Materials Science Forum*, 846, 2016, 172-176 (28th Regional Conference on Solid State Science and Technology, RSCSST 2014; Cameron Highlands, Pahang; Malaysia; 25 November 2014 through 27 November 2014; Code 168799)
471. Valov, I., **Guergova, D., Stoychev, D.** A study of the kinetics of the electrochemical deposition of Ce<sup>3+</sup>/Ce<sup>4+</sup> oxides. *NATO Science for Peace and Security Series B: Physics and Biophysics*, 2011, ISBN:9.7894E+12, ISSN:18746500, DOI:10.1007/978-94-007-0903-4-17, 167-172

Цитира се в:

1534. А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и У за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
472. **Kashchiev, D.** Note: On the critical supersaturation for nucleation. *Journal of Chemical Physics*, 134, 19, 2011, ISSN:219606, DOI:10.1063/1.3593401

Цитира се в:

1535. Wu, Xing-Hua, et al. "Spherical Al-substituted  $\alpha$ -nickel hydroxide with high tapping density applied in Ni-MH battery." *Journal of Power Sources* 329 (2016): 170-178.
473. **Lyutov, V., Tsakova, V., Bund, A.** Microgravimetric study on the formation and redox behavior of poly(2-acrylamido-2-methyl-1-propanesulfonate)-doped thin polyaniline layers. *Electrochimica Acta*, 56, 13, 2011, ISSN:134686, DOI:10.1016/j.electacta.2011.03.079, 4803-4811

Цитира се в:

**1536.** Rebiš, T., Milczarek, G., A comparative study on the preparation of redox active bioorganic thin films based on lignosulfonate and conducting polymers, *Electrochimica Acta* 204 (2016) 108-117.; DOI: 10.1016/j.electacta.2016.04.061

**474.** Dobrovolska, Ts., Krastev, I., Jovi?, B.M., Jovi?, V.D., Beck, G., La?njevac, U., Zielonka, A.. Phase identification in electrodeposited Ag-Cd alloys by anodic linear sweep voltammetry and X-ray diffraction techniques. *Electrochimica Acta*, 56, 11, 2011, ISSN:134686, DOI:10.1016/j.electacta.2011.01.028, 4344-4350

*Цитира се в:*

**1537.** Nimai Bhandary, Suddhasatwa Basu, Pravin P. Ingole, Rudimentary simple, single step fabrication of nano-flakes like AgCd alloy electro-catalyst for oxygen reduction reaction in alkaline fuel cell, *Electrochimica Acta*, <http://dx.doi.org/doi:10.1016/j.electacta.2016.06.143>

**1538.** Fedi, B., Gigandet, M.P., Hihn, J.Y., Mierzejewski, S., Structure determination of electrodeposited zinc-nickel alloys: thermal stability and quantification using XRD and potentiodynamic dissolution, *Electrochimica Acta*, 215, (2016), 652-666

**475.** Raichevski, G.M., Lutov, L., **Boshkov, N.S.** Corrosion characterization and protective ability of the LR -3 rust converter. *Bulgarian Chemical Communications*, 43, 1, 2011, ISSN:8619808, 69-73

*Цитира се в:*

**1539.** Martinez, S., Mikšić, B., Rogan, I., & Ivanković, A., "Rust Converter with Improved Adhesion for Topcoats", In Eurocorr 2016, The Annual Event of the European Federation of Corrosion.

**476.** Guergova, D., Stoyanova, E., Stoychev, D., Avramova, I., Atanasova, G., Stefanov, P.. Corrosion stability of stainless steel, modified electrochemically with Ce 2O 3-CeO 2 films, in 3.5% NaCl media. *Bulgarian Chemical Communications*, 43, 1, 2011, ISSN:8619808, 150-157. ISI IF:0.349

*Цитира се в:*

**1540.** Biobased and Environmentally Benign Coatings, Atul Tiwari, Anthony Galanis, Mark D. Soucek Eds., Chapter 2: Deposition of Environmentally Compliant Cerium-Containing and Primers on Copper-Containing Aluminium Aircraft Alloys, pp.2-35 Scrivener Publishing, Wiley, 2016, ISSN9781119185116, Available at: <http://ccn.loc.gov/2015049858>

**1541.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и У за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

**477.** H?che, T., M?der, M., Bhattacharyya, S., Henderson, G.S., Gemming, T., Wurth, R., R?ssel, C., **Avramov, I.** ZrTiO4 crystallisation in nanosized liquid-liquid phase-separation droplets in glass-a quantitative XANES study. *CrystEngComm*, 13, 7, 2011, ISSN:14668033, DOI:10.1039/c0ce00716a, 2550-2556

*Цитира се в:*

**1542.** Richa Mishra, M. Goswami, A. Dixit, M. Krishnan, J. *Non-Crystalline Solids* 447:66-73 · September 2016

**478.** Stoyanova, A., Ivanov, S., Tsakova, V., Bund, A.. Au nanoparticle-polyaniline nanocomposite layers obtained through layer-by-layer adsorption for the simultaneous determination of dopamine and uric acid. *Electrochimica Acta*, 56, 10, 2011, ISSN:134686, DOI:10.1016/j.electacta.2010.09.054, 3693-3699. ISI IF:4.504

Цумура се в:

- 1543.** M. Choudhary, S. Siwal, D. Nandi, K. Mallick, Single step synthesis of gold-amino acid composite, with the evidence of the catalytic hydrogen atom transfer (HAT) reaction, for the electrochemical recognition of Serotonin, *Physica E*, 77 (2016) 72-80.
- 1544.** Meenakshi, S., Devi, S., Pandian, K., Devendiran, R., Selvaraj, M., "Sunlight assisted synthesis of silver nanoparticles in zeolite matrix and study of its application on electrochemical detection of dopamine and uric acid in urine samples" *Materials Science and Engineering C* 69( 2016) 85-94 DOI: 10.1016/j.msec.2016.06.037
- 1545.** Detsri, E., Rujipornsakul, S., Treetasayoot, T., Siriwattanamethanon, P., "Nanostructured multilayer thin films of multiwalled carbon nanotubes/gold nanoparticles/glutathione for the electrochemical detection of dopamine" *International Journal of Minerals, Metallurgy and Materials* 23( 2016) 1204-1214 DOI: 10.1007/s12613-016-1340-y
- 1546.** Yang, Z., Zheng, X., Li, Z., Zheng, J., "A facile one-pot synthesis of carbon nitride dots-reduced graphene oxide nanocomposites for simultaneous enhanced detecting of dopamine and uric acid" *Analyst* 141 ( 2016 ) 4757-4765 DOI: 10.1039/c6an00640j
- 1547.** Marmisollé, W.A., Azzaroni, O., "Recent developments in the layer-by-layer assembly of polyaniline and carbon nanomaterials for energy storage and sensing applications. from synthetic aspects to structural and functional characterization" *Nanoscale* 8 (2016) 9890-9918 DOI: 10.1039/c5nr08326e
- 1548.** Meenakshi, S., Pandian, K., "Simultaneous voltammetry detection of dopamine and uric acid in pharmaceutical products and urine samples using ferrocene carboxylic acid primed nanoclay modified glassy carbon electrode" *Journal of the Electrochemical Society* 163 (2016) B543-B555 DOI: 10.1149/2.0891610jes
- 479.** Schmelzer, J.W.P., **Gutzow, I.S.**, Mazurin, O.V., Priven, A.I., Todorova, S.V., Petroff, B.P.. *Glasses and the Glass Transition*. Glasses and the Glass Transition, Wiley-VCH, 2011, DOI:10.1002/9783527636532

Цумура се в:

- 1549.** Gupta, Prabhat K., Daniel R. Cassar, and Edgar D. Zanotto. "Role of dynamic heterogeneities in crystal nucleation kinetics in an oxide supercooled liquid." *The Journal of Chemical Physics* 145.21 (2016): 211920.
- 1550.** Boucher, Virginie M., et al. "Reaching the ideal glass transition by aging polymer films." *Physical Chemistry Chemical Physics* 19.2 (2017): 961-965.
- 1551.** Cangialosi, Daniele, Angel Alegría, and Juan Colmenero. "Cooling Rate Dependent Glass Transition in Thin Polymer Films and in Bulk." *Fast Scanning Calorimetry*. Springer International Publishing, 2016. 403-431.
- 1552.** Mitrofanov, Yu P., et al. "Towards understanding of heat effects in metallic glasses on the basis of macroscopic shear elasticity." *Scientific reports* 6 (2016).
- 1553.** Oh, Seungjin, Minkook Kim, and Jaeheon Choe. "Bonding characteristics between carbonized copper and a glass/phenolic composite." *Composite Structures* 147 (2016): 294-301.
- 480.** **Armyanov, S.A., Valova, E., Georgieva, J.** New features in electroless deposition of ternary coatings on the base of Ni-P and Co-P. *Zeitschrift fur Physikalische Chemie*, 225, 3, 2011, ISSN:9429352, DOI:10.1524/zpch.2011.0040, 283-295

Цумура се в:

- 1554.** J. N. Balaraju, P. Radhakrishnan, V.Ezhilselvi, A. Anil Kumar, Z. Chen, K. P. Surendran,

- 481. Georgieva, J., Sotiropoulos, S., Armyanov, S., Philippidis, N., Poullos, I.** Photoelectrocatalytic activity of bi-layer TiO<sub>2</sub>/WO<sub>3</sub> coatings for the degradation of 4-chlorophenol: Effect of morphology and catalyst loading. Journal of Applied Electrochemistry, 41, 2, 2011, ISSN:0021891X, DOI:10.1007/s10800-010-0221-8, 173-181

Цитира се в:

- 1555.** M. Li, Y. Li, F. Chen, X. Lin, Q. Feng, Electrically enhanced photocatalysis for gas-phase benzaldehyde degradation by ordered mesoporous titania/conductive carbon felts, Electrochim. Acta, 216, 517–527 (2016)
- 1556.** T. T. Guaraldo, V. R. Gonçalves, B. F. Silva, S. I. C. de Torresi, M. V. B. Zanoni, J. Electroanal. Chem., 765, 188-196 (2016), Hydrogen production and simultaneous photoelectrocatalytic pollutant oxidation using a TiO<sub>2</sub>/WO<sub>3</sub> nanostructured photoanode under visible light irradiation
- 1557.** N. Tadić, S. Stojadinović, N. Radić, B. Grbić, R. Vasilić, Characterization and photocatalytic properties of tungsten doped TiO<sub>2</sub> coatings on aluminum obtained by plasma electrolytic oxidation, Surf. Coat. Technol., 305, 192-199 (2016)
- 482. Alexandrova, L., Hanumantha Rao, K., Forsberg, K.S.E., Grigorov, L., Pugh, R.J..** The influence of mixed cationic-anionic surfactants on the three-phase contact parameters in silica-solution systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 373, 3-Jan, 2011, ISSN:9277757, DOI:10.1016/j.colsurfa.2010.10.040, 145-151

Цитира се в:

- 1558.** Cao, X.-L., Guo, L.-L., (...), Zhang, L., Zhao, S., Wang, C., Effect of adsorption of cationic surfactant mixtures on wettability of quartz surface, Colloids and Surfaces A: Physicochemical and Engineering Aspects., 2016, pp. Volume 509, 20 November 2016, Pages 564-573
- 1559.** Wang, L., Liu, R., Hu, Y., Liu, J., Sun, W., Adsorption behavior of mixed cationic/anionic surfactants and their depression mechanism on the flotation of quartz, Powder Technology, 302, 2016, pp. 15-20. Volume 302, 1 November 2016, Pages 15-20
- 1560.** Wang, L., Liu, J., Sun, W., Hu, Y., The effect of mixed cationic/anionic surfactants with different ratios on wetting and flotation of quartz, 2016 SME Annual Conference and Expo: The Future for Mining in a Data-Driven World, 2016 SME Annual Conference and Expo: The Future for Mining in a Data-Driven World 2016, Pages 91-96
- 483. Йорданов, М., Чобанов, Р., Гергова, Д., Стойчев, Д., Чернева, С., Янков Р..** Структура и механични свойства на електролизно отложени слоеве от ZrO<sub>2</sub> върху стомана 316L. "Машиностроене и машинознание", орган на Националното научни техническо дружество (Национален комитет) по ТММ, VI, 2, Технически университет Варна, 2011, ISSN:1312-8612, 51-55

Цитира се в:

- 1561.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и У за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г
- 1562.** Българско списание за инженерно проектиране, брой 29, стр.5-14, април 2016г. ЕКСПЕРИМЕНТАЛНО ОПРЕДЕЛЯНЕ НА КОЕФИЦИЕНТА НА ИНТЕНЗИВНОСТ НА НАПРЕЖЕНИЯТА КИ Галина ТОДОРОВА

**1563.** маг. инж. ГАЛИНА НИКОЛОВА ТОДОРОВА ОПРЕДЕЛЯНЕ НА КОЕФИЦИЕНТА НА ИНТЕНЗИВНОСТ НА НАПРЕЖЕНИЯТА ПРИ РАВНИННО НАПРЕГНАТО СЪСТОЯНИЕ ПОСРЕДСТВОМ ОБРАБОТКА НА ЦИФРОВИ ИЗОБРАЖЕНИЯ  
ДИСЕРТАЦИЯ за присъждане на образователна и научна степен „ДОКТОР”, ТУ-София, Катедра „Съпротивление на материалите”, 2016 г

**484. Кръстев, И.** 53 години Институт по физикохимия „Акад. Ростислав Каишев“. Списание на БАН, Списание на БАН, 124, 6, 2011, 10-12

Цитира се в:

**1564.** В. Цакова, Институтът по физикохимия – носител и продължител на традицията на българската физикохимична школа, Chemistry, Bulgarian journal of science education, 25, 1, (2016), 35-67

**485. Кръстев И., Стойчев Д., Райчевски Г., Божков Н.** Фундаментални и приложни изследвания на Института по физикохимия в електрохимичното направление 124(60, 30 – 43].. Списание на БАН, 124, 60, 2011, 30-43

Цитира се в:

**1565.** В. Цакова, Институтът по физикохимия – носител и продължител на традицията на българската физикохимична школа, Chemistry, Bulgarian journal of science education, 25, 1, (2016), 35-67

**486. Alexander Milchev, Ivan Krastev.** Two-dimensional progressive and instantaneous nucleation with overlap: The case of multi-step electrochemical reactions. Electrochimica Acta, 56, Elsevier, 2011, 2399-2403

Цитира се в:

**1566.** Sebastián, P., Botello, L. E., Vallés, E., Gómez, E., Palomar-Pardavé, M., Scharifker, B. R., & Mostany, J. (2016). Three-dimensional nucleation with diffusion controlled growth: A comparative study of electrochemical phase formation from aqueous and deep eutectic solvents. Journal of Electroanalytical Chemistry, <http://dx.doi.org/10.1016/j.jelechem.2016.12.014>

**1567.** Saitou, M. Probability Analysis of Island Distribution at the Early Stage in Electrodeposition Based on a Fixed Length Segment Model Int. J. Electrochem. Sci., 11 (2016) 7830 – 7842, doi: 10.20964/2016.09.40

**487. S. Nineva, Ts. Dobrovoltska, I. Krastev.** Electrodeposition of Sb-In, Sb-Co and In-Co alloys. Zastita Material, 52, 2, Serbia, 2011, 80-84

Цитира се в:

**1568.** Prodana, M., Stoian, A. B., Negru, A. M., Golgovici, F., Bojin, D., & Enachescu, M. (2016). Characterization of Electrodeposited CoSb Nanowires Used as Anode Materials in Batteries. REVISTA DE CHIMIE, 67(10), (2016), 2071-2074

**488. Khristov Khr., Petkova H., Alexandrova L., Nedyalkov M., Platikanov D., Exerowa D.** Foam, Emulsion and Wetting Films Stabilized by Polyoxyalkylated Diethylenetriamine (DETA ) Polymeric Surfactants,. Advances in Colloid and Interface Sci., Vol.168, 2011, 105

Цитира се в:

**1569.** Velásquez, I., Muñoz, A., Pereira, J.C., Tuning Interfacial Activity of Polymeric Resin–Surfactant/n-Alcohol Solution Interactions, Journal of Surfactants and Detergents,, 2016, pp.

- 489. Milchev, A.** Single-polymer dynamics under constraints: scaling theory and computer experiment. 2011

Цитира се в:

- 1570.** Hsiao, P.-Y. Conformation change, tension propagation and drift-diffusion properties of polyelectrolyte in nanopore translocation (2016) *Polymers*, 8 (10), art. no. 378 DOI: 10.3390/polym8100378
- 1571.** Wang, H., Shentu, B., Faller, R. Refinement of a coarse-grained model of poly(2, 6-dimethyl-1, 4-phenylene ether) and its application to blends of PPE and PS (2016) *Molecular Simulation*, 42 (4), pp. 312-320. 10.1080/08927022.2015.1047368
- 1572.** Sandrin, D., Wagner, D., Sitta, C.E., Thoma, R., Felekyan, S., Hermes, H.E., Janiak, C., De Sousa Amadeu, N., Kühnemuth, R., Löwen, H., Egelhaaf, S.U., Seidel, C.A.M. Diffusion of macromolecules in a polymer hydrogel: From microscopic to macroscopic scales (2016) *Physical Chemistry Chemical Physics*, 18 (18), pp. 12860-12876. 10.1039/c5cp07781h
- 1573.** Jeong, D., Kim, J., Sung, B.J. Effects of solvent and wall roughness on the dynamics and structure of a single polymer in a slit (2016) *Polymer (United Kingdom)*, 92, pp. 256-263. 10.1016/j.polymer.2016.04.002
- 1574.** Loppinet, B., Monteux, C. Dynamics of surfactants and polymers at liquid interfaces (2016) *Lecture Notes in Physics*, 917, pp. 137-157. 10.1007/978-3-319-24502-7\_5
- 1575.** Hsiao, P.-Y. Polyelectrolyte threading through a nanopore (2016) *Polymers*, 8 (3), art. no. 73, 10.3390/polym8030073
- 1576.** Yang, Q.-H., Luo, M.-B. Dynamics of adsorbed polymers on attractive homogeneous surfaces (2016) *Scientific Reports*, 6, art. no. 37156
- 1577.** Ren, Q.-B., Ma, S.-H., Chen, Y.-J., Sun, L.-Z., Cao, W.-P. Numerical simulation on polymer translocation into crowded environment with nanoparticles (2016) *Colloid and Polymer Science*, 294 (8), pp. 1351-1357. 10.1007/s00396-016-3891-x
- 1578.** Ziebarth, J.D., Wang, Y. Interactions of complex polymers with nanoporous substrate (2016) *Soft Matter*, 12 (24), pp. 5245-5256. 10.1039/c6sm00768f

- 490. Армянов С.** Физикохимични аспекти на химично (автокаталитично) отлагане на тройни сплави. Значение за науката и практиката. Списание на БАН, 124, 6, Академично издателство "Проф. Марин Дринов", 2011, ISSN:ISSN 0007-3989, 44-52

Цитира се в:

- 1579.** В. Цакова, Институтът по физикохимия „Академик Ростислав Каишев“ – носител и продължител на традицията на българската физикохимична школа, *Khimiya/Chemistry: Bulgarian Journal of Science Education*, 25, 35-67 (2016)

- 491. Pashova, V., Mirkova, L., Monev, M., Nowak, P., Nawrat, G.** Ni/Re-Co as electrocatalytic material for hydrogen evolution reaction in alkaline solution. *Bulg. Chem. Commun.*, 43, 1, BAS, 2011, 64-68

Цитира се в:

- 1580.** Berkh, O., Burstein, L., Gladkikh, A., Eliaz, N., Gileadi, E. Characterization of Re-Ni films after the initial stages of electrodeposition *Journal of the Electrochemical Society*, 163(7) (2016) D295-D-299

- 492. Datcheva M., Cherneva S., Stoycheva M., Iankov R., Stoychev, D.** Determination of Anodized

Aluminum Material Characteristics by Means of Nano-Indentation Measurements. Materials Sciences and Applications, 2, 10, 2011, ISSN:2153-117X, DOI:10.4236/msa.2011.210196, 1452-1464. ISI IF:0.83

Цитирана се в:

- 1581.** Markus Reusch, Katarzyna Holc, Lutz Kirste, Philip Katus, Leonhard Reindl, Oliver Ambacher, Vadim Lebedev, Piezoelectric AlN Films for FPW Sensors with Improved Device Performance, Procedia Engineering, Volume 168, 2016, Pages 1040–1043, Proceedings of the 30th anniversary Eurosensors Conference – Eurosensors 2016, 4-7. September 2016, Budapest, Hungary
- 1582.** Mohand Amokrane BRADAI, Abdelhamid SADEDDINE, Youcef MOUADJI, Ali BILEK, Abderrahim BENABBAS., Effect of TiO<sub>2</sub> and ZrO<sub>2</sub> reinforcements on properties of Al<sub>2</sub>O<sub>3</sub> coatings fabricated by thermal flame spraying, Transactions of Nonferrous Metals Society of China, Volume 26, Issue 5, May 2016, Pages 1345–1352, doi:10.1016/S1003-6326(16)64237-1
- 1583.** Surface and Coatings Technology Volume 304, 25 October 2016, Pages 1–8 Atomic layer deposition of aluminum oxide on modified steel substrates Kaupo Kuklia, Emma Salmia, Taivo Jõgiaasb, Roberts Zabelsc, Mikael Schuiskyd, Jörgen Westlinderd, Kenichiro Mizohatae, Mikko Ritalaa, Markku Leskela
- 1584.** Estimation of the elastic modulus of the alumina coated AA1050 aluminum: Modeling and Experiments Amir Bahri, Noamen Guermazi, Mansour Bargui, Khaled Elleuch Mat.Sci.Eng. A 670 (2016) 188-195 Article · June 2016 DOI: 10.1016/j.msea.2016.06.012 •
- 493.** Paturej, J., **Milchev, A.**, Rostiashvili, VG, Vilgis, TA. Thermal degradation of unstrained single polymer chain: Non-linear effects at work. The Journal of chemical physics, 134, 22, 2011, DOI:10.1063/1.3596744, 224901. ISI IF:3.017

Цитирана се в:

- 1585.** Yang, Q.-H., Wu, F., Wang, Q., Luo, M.-B. Simulation study on the coil-globule transition of adsorbed polymers (2016) Journal of Polymer Science, Part B: Polymer Physics, 54 (22), pp. 2359-2367. 10.1002/polb.24149
- 494.** **Arabadzhieva, D., Mileva, E., Tchoukov, P.,** Miller, R., Ravera, F., Liggieri, L.. Adsorption layer properties and foam film drainage of aqueous solutions of tetraethyleneglycol monododecyl ether. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 392, 1, 2011, ISSN:9277757, DOI:10.1016/j.colsurfa.2011.09.061, 233-241

Цитирана се в:

- 1586.** Диляна Иванова, дисертация за ОНС „доктор”, "Изтъняване и критична дебелина на пенни филми от водни разтвори на смеси от п-додецил-β-малтозид с нейонни и йонни ПАВ Fractionation”, Факултет по химия и фармация, Софийски университет, София
- 495.** **Lyutov, V., Tsakova, V.** Silver particles-modified polysulfonic acid-doped polyaniline layers: Electroless deposition of silver in slightly acidic and neutral solutions. Journal of Solid State Electrochemistry, 15, 12-Nov, 2011, ISSN:14328488, DOI:10.1007/s10008-011-1451-3, 2553-2561

Цитирана се в:

- 1587.** R. Fuchs-Godec, The inhibitive effect of polyelectrolyte on the corrosive performance of brass within acid solution, J. Mol. Liquids, 2016, DOI: 10.1016/j.molliq.2016.08.095
- 496.** **Mirkova, L., Pashova, V., Monev, M.** Study of hydrogen evolution reaction on Ni/Co 3O 4 composite electrode in alkaline solution. ECS Transactions, 35, 21, 2011, ISBN:9.78161E+12, ISSN:19385862,



Цитирани работи:

- 1588.** Danilov, F.I., Tsurkan, A.V., Vasil'Eva, E.A., Protsenko, V.S. Electrocatalytic activity of composite Fe/TiO<sub>2</sub> electrodeposits for hydrogen evolution reaction in alkaline solutions International Journal of Hydrogen Energy 41(18) (2016) 7363-7372
- 1589.** Elias, L., Hegde, A.C. Synthesis and characterization of Ni-P-Ag composite coating as efficient electrocatalyst for alkaline hydrogen evolution reaction Electrochimica Acta, 219 (2016) 377-385

---

**2012**

---

- 497.** Bachvarov, V., Peshova, M., Vitkova, S., Boshkov, N. Electrodeposition, structure and composition of ternary Zn-Ni-P alloys. Materials Chemistry and Physics, 136, 2012, ISSN:0254-0584, DOI:10.1016/j.matchemphys.2012.08.039, 999-1007. SJR:0.733

Цитирани работи:

- 1590.** Haghmoradi, N., Dehghanian, C., Yari, S., "The Correlation Among Deposition Parameters, Structure and Corrosion Behavior in ZnNi/Nano-SiC Coating", (2016), Journal of Materials Engineering and Performance, 25, (9), 3746-3755.
- 498.** Paturej, J., Kuban, L., Milchev, A., Vilgis, TA. Tension enhancement in branched macromolecules upon adhesion on a solid substrate. Europhysics Letters, 97, 5, 2012, 58003. ISI IF:2.095

Цитирани работи:

- 1591.** Leuty, G.M., Tsighe, M., Grest, G.S., Rubinstein, M. Tension Amplification in Tethered Layers of Bottle-Brush Polymers (2016) Macromolecules, 49 (5), pp. 1950-1960. 10.1021/acs.macromol.5b02305
- 499.** Stoyanova E., Stoychev D.. Corrosion behavior of stainless steels modified by cerium oxides layers. Corrosion resistance, Intech Publishers, 2012, ISBN:978-953-51-0467-4, DOI:10.5772/1844, 31, 239-270

Цитирани работи:

- 1592.** Electrochemical Formation of Cerium Oxide/Layered Silicate Nanocomposite Films Adele Qi Wang<sup>1</sup> and Teresa Diane Golden\* University of North Texas, Department of Chemistry, 1155 Union Circle #305070, Denton, Texas, 76203 <sup>1</sup>Yeshiva University, Physics Department, New York, NY 10016 \*To whom correspondence should be addressed: email: tgolden@unt.edu, For publication in J of Nanotechnology, PDF hindawi.com
- 1593.** Surface and Coatings Technology Available online 16 November 2016 EIS and XPS studies on the self-healing properties of Ce-modified silica-alumina hybrid coatings: Evidence for Ce(III) migration R.V. Lakshmia, S.T. Arunaa,, , C. Anandana, Parthasarathi Beraa, S. Sampathba Available online 16 November 2016 <http://dx.doi.org/10.1016/j.surfcoat.2016.11.051> Get rights and content
- 1594.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

- 500. Dimitrov, I.** Aspects of Protein Crystal Nucleation and Growth in Forced Sedimentation. Journal of Scientific Review, 4, 2012, ISSN:0975-0754, 189-195

Цитира се в:

- 1595.** Alexandrov, D.V., Mathematical modelling of nucleation and growth of crystals with buoyancy effects, Philosophical Magazine Letters 96, 132-141

- 501. Milchev, A., Binder, K.** Semiflexible polymers grafted to a solid planar substrate: Changing the structure from polymer brush to “polymer bristle”. The Journal of chemical physics, 136, 19, 2012, DOI:10.1063/1.4712138, 194901. ISI IF:3.017

Цитира се в:

- 1596.** Lang, M., Werner, M., Dockhorn, R., Kreer, T. Arm Retraction Dynamics in Dense Polymer Brushes (2016) Macromolecules, 49 (14), pp. 5190-5201. 10.1021/acs.macromol.6b00761

- 502. Paturej, J., Milchev, A., Rostiashvili, VG, Vilgis, TA.** Polymer Detachment Kinetics from Adsorbing Surface: Theory, Simulation and Similarity to Infiltration into Porous Medium. Macromolecules, 45, 10, 2012, DOI:10.1021/ma202671n, 4371-4380. ISI IF:5.8

Цитира се в:

- 1597.** Kumar, S., Pattanayek, S.K., Pereira, G.G., Mohanty, S. Effect of Uniformly Applied Force and Molecular Characteristics of a Polymer Chain on Its Adhesion to Graphene Substrates (2016) Langmuir, 32 (11), pp. 2750-2760. 10.1021/acs.langmuir.5b04028

- 503. Dubbeldam, J. L. A., Rostiashvili, V.G., Milchev, A., Vilgis, T.A.** Driven translocation of a polymer: fluctuations at work. Physical Review E, 87, 3, 2012, DOI:10.1103/PhysRevE.87.032147, 032147. ISI IF:2.288

Цитира се в:

- 1598.** Hsiao, P.-Y. Conformation change, tension propagation and drift-diffusion properties of polyelectrolyte in nanopore translocation (2016) Polymers, 8 (10), art. no. 378 DOI: 10.3390/polym8100378

- 1599.** Vollmer, S.C., De Haan, H.W. Translocation is a nonequilibrium process at all stages: Simulating the capture and translocation of a polymer by a nanopore (2016) Journal of Chemical Physics, 145 (15), art. no. 154902 DOI: 10.1063/1.4964630

- 1600.** Moio, J.E., Piili, J., Linna, R.P. Driven polymer translocation in good and bad solvent: Effects of hydrodynamics and tension propagation (2016) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 94 (2), art. no. 022501, 10.1103/PhysRevE.94.022501

- 1601.** Domanski, Z., Grzybowski, A.Z. Analysis of sequential algorithms as tools for modeling the chain-like-body evolution (2016) 2015 IEEE 13th International Scientific Conference on Informatics, INFORMATICS 2015 - Proceedings, art. no. 7377815, pp. 97-102. 10.1109/Informatics.2015.7377815

- 504. Cherneva S., Iankov R., Stoychev D.** „Investigation of mechanical properties of electrochemically deposited ZrO<sub>2</sub>, Ce<sub>2</sub>O<sub>3</sub>-CeO<sub>2</sub> and La<sub>2</sub>O<sub>3</sub> films by means of nanoindentation“. Chem. Listy, 106 (2012) s438-s441., 106, 4, The official journal of the Association of Czech Chemical Societies since 1876, 2012, ISSN:1213-7103, 0009-2770 (printed), 1803-2389 (CD-ROM), 438-441

Цитира се в:

- 1602.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми

на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

505. Virgiliis, A De, **Milchev, A.**, Rostiashvili, VG, Vilgis, TA. Structure and dynamics of a polymer melt at an attractive surface. The European Physical Journal E, 35, 9, 2012, 1-11. ISI IF:1.757

Цитирана се в:

1603. Yang, Q.-H., Luo, M.-B. Dynamics of adsorbed polymers on attractive homogeneous surfaces (2016) Scientific Reports, 6, art. no. 37156
1604. Yang, Q.-H., Wu, F., Wang, Q., Luo, M.-B. Simulation study on the coil-globule transition of adsorbed polymers (2016) Journal of Polymer Science, Part B: Polymer Physics, 54 (22), pp. 2359-2367. 10.1002/polb.24149

506. **A. Milchev**, K. Binder. Thermal degradation of adsorbed bottle-brush macromolecules: When do strong covalent bonds break easily. 2012

Цитирана се в:

1605. Leuty, G.M., Tsige, M., Grest, G.S., Rubinstein, M. Tension Amplification in Tethered Layers of Bottle-Brush Polymers (2016) Macromolecules, 49 (5), pp. 1950-1960. 10.1021/acs.macromol.5b02305

507. **A. Milchev**, K. Binder, A. Bhattacharya. Forced translocation of a polymer: Dynamical scaling versus molecular dynamics simulation. 2012

Цитирана се в:

1606. Hsiao, P.-Y. Polyelectrolyte threading through a nanopore (2016) Polymers, 8 (3), art. no. 73, 10.3390/polym8030073
1607. Yamazaki, H., Ito, S., Esashika, K., Taguchi, Y., Saiki, T. Optical observation of DNA translocation through Al<sub>2</sub>O<sub>3</sub> sputtered silicon nanopores in porous membrane (2016) Applied Physics A: Materials Science and Processing, 122 (3), art. no. 216, pp. 1-6. 10.1007/s00339-016-9764-9

508. Чернева С., Янков Р., **Стойчев Д.** Локално охарактеризиране на материални свойства на тънки слоеве посредством наноиндентация. II Международна конференция “Металознание, нови материали, хидро- и аеродинамика’2012”, Институт по металознание, съоръжения и технологии - БАН, 2012, ISSN:ISSN 1313-8308, 37-47

Цитирана се в:

1608. ТЕХНИЧЕСКИ УНИВЕРСИТЕТ – СОФИЯ Катедра „Съпротивление на материалите” маг. инж. ГАЛИНА НИКОЛОВА ТОДОРОВА ОПРЕДЕЛЯНЕ НА КОЕФИЦИЕНТА НА ИНТЕНЗИВНОСТ НА НАПРЕЖЕНИЯТА ПРИ РАВНИННО НАПРЕГНАТО СЪСТОЯНИЕ ПОСРЕДСТВОМ ОБРАБОТКА НА ЦИФРОВИ ИЗОБРАЖЕНИЯ ДИСЕРТАЦИЯ за присъждане на образователна и научна степен „ДОКТОР”, 2016

509. **Michailov, M.**, **Avramov, I.** "Surface energy, surface debye temperature and specific heat of nanocrystals". Journal of Physics: Conference Series, 398, 1, 2012, ISSN:17426588, DOI:10.1088/1742-6596/398/1/012008

Цитирана се в:

1609. Neha Arora and Deepika P. Joshi, "A theoretical approach to study the melting temperature of metallic nanowires" AIP Conf. Proc. 1731, 050054 (2016);

1610. Boscheto, E; de Souza, M; Lopez-Castillo, A, PHYSICA A-STATIST. MECHANICS AND ITS APPLICATIONS, 451 592-600; 2016
1611. H Lei, J Luo, J Li, F Dai, M Yang, J Zhang, J Zhang - Applied Physics Letters, Volume 109 Number 21 2016
1612. B. Gangopadhyay, A. Sarkar, AIP Conference Proceedings 1728, 020366 (2016); doi: 10.1063/1.4946417
510. Czarnecki J., Tchoukov P., Dabros T.. Possible role of asphaltenes in stabilization of water in crude oil emulsions. Energy and Fuels, 26, American Chemical Society, 2012, ISSN:0887-0624, 5782-5786. ISI IF:2.853

Цумура ce в:

1613. Ollinger, Jeffrey, Amin Pourmohammadbagher, Arthur D. Quast, Mildred Becerra, Jennifer S. Shumaker-Parry, and John M. Shaw. "Gold Core Nanoparticle Mimics for Asphaltene Behaviors in Solution and at Interfaces." Energy & Fuels, Volume 30, Issue 12, 15 December 2016, Pages 10148-10160
1614. Zhang, Ling, Lei Xie, Chen Shi, Jun Huang, Qingxia Liu, and Hongbo Zeng. "Mechanistic Understanding of Asphaltene Surface Interactions in Aqueous Media." Energy & Fuels Article ASAP, Publication Date (Web): October 3, 2016
1615. Yang, Fan. "Bitumen fractions responsible for stabilizing water in oil emulsions." PhD diss., University of Alberta, 2016
1616. Shi, Chen, Ling Zhang, Lei Xie, Xi Lu, Qingxia Liu, Cesar A. Mantilla, Frans GA van den Berg, and Hongbo Zeng. "Interaction Mechanism of Oil-in-Water Emulsions with Asphaltenes Determined using Droplet Probe AFM." Langmuir 32, no. 10 (2016): 2302-2310
1617. Natarajan, Anand, Natalie Kuznicki, David Harbottle, Jacob Masliyah, Hongbo Zeng, and Zhenghe Xu. "Molecular Interactions between a Biodegradable Demulsifier and Asphaltenes in an Organic Solvent." Energy Fuels, 2016, 30 (12), pp 10179–10186
1618. Sonthalia, Rohit, Samson Ng, and Arun Ramachandran. "Formation of extremely fine water droplets in sheared, concentrated bitumen solutions via surfactant-mediated tip streaming." Fuel 180 (2016): 538-550
1619. Choi, Seonung, Wonbum Pyeon, Jong-Duk Kim, and Nam-sun Nho. "Simple Functionalization of Asphaltene and Its Application for Efficient Asphaltene Removal." Energy & Fuels 30, no. 9 (2016): 6991-7000
1620. Zhang, Ling. "Molecular and Surface Interaction Mechanisms of Asphaltenes in Organic and Aqueous Media." PhD diss., University of Alberta, 2016
1621. Liang, C., 2016. Design and Application of Responsive Composite Particles for Multiphase Separations of Bitumen Emulsions in Bituminous (Oil) Sands Extraction (Doctoral dissertation, University of Alberta).
1622. Stape, Philip, Cesar Ovalles, and Berna Hascakir. "Pore Scale Displacement Mechanism of Bitumen Extraction with High Molecular Weight Hydrocarbon Solvents.", Conference Proceeding, Society of Petroleum Engineers, SPE Improved Oil Recovery Conference; Tulsa; United States; 11 April 2016 through 13 April 2016; Code 122165
1623. Kuznicki, Natalie Paige. "Probing Deformable Oil-Water Interfaces by Atomic Force Microscopy and Cascade Partial Coalescence Measurements." PhD diss., University of Alberta, 2016

- 511. Michailov, M., Kashchiev, D.** Thermal rupture of monatomic metal nanowires. *Journal of Physics: Conference Series*, 398, 1, 2012, ISSN:17426588, DOI:10.1088/1742-6596/398/1/012010

*Цумура се в:*

- 1624.** Michailov, Michail, et al. "Thermal stability and spontaneous breakdown of free-standing metal nanowires." *Journal of Crystal Growth* 457(2016) 92–97

- 512. Cabriolu, R., Kashchiev, D., Auer, S.** Breakdown of nucleation theory for crystals with strongly anisotropic interactions between molecules. *Journal of Chemical Physics*, 137, 20, 2012, ISSN:219606, DOI:10.1063/1.4767531

*Цумура се в:*

- 1625.** Sosso, Gabriele C., et al. "Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations." *Chemical reviews* 116 (12) (2016) 7078–7116

- 1626.** Šarić, Anđela, et al. "Kinetics of spontaneous filament nucleation via oligomers: insights from theory and simulation." *The Journal of Chemical Physics* 145.21 (2016): 211926.

- 1627.** Michaels, Thomas CT, Alexander J. Dear, and Tuomas PJ Knowles. "Scaling and dimensionality in the chemical kinetics of protein filament formation." *International Reviews in Physical Chemistry* 35.4 (2016): 679-703.

- 513. Binder, K., Milchev, A.** Polymer brushes on flat and curved surfaces: How computer simulations can help to test theories and to interpret experiments. "Journal of Polymer Science, Part B: Polymer Physics", 50, 22, 2012, ISSN:8876266, DOI:10.1002/polb.23168, 1515-1555

*Цумура се в:*

- 1628.** Borówko, M., Staszewski, T. Adsorption from binary solutions on chemically bonded phases (2016) *Condensed Matter Physics*, 19 (1), art. no. 13601, 10.5488/CMP.19.13601

- 1629.** Singh, M.K., Ilg, P., Espinosa-Marzal, R.M., Spencer, N.D., Kröger, M. Influence of chain stiffness, grafting density and normal load on the tribological and structural behavior of polymer brushes: A nonequilibrium-molecular-dynamics study (2016) *Polymers*, 8 (7), art. no. 254 10.3390/polym8070254

- 1630.** Mortazavian, H., Fennell, C.J., Blum, F.D. Surface Bonding Is Stronger for Poly(methyl methacrylate) than for Poly(vinyl acetate) (2016) *Macromolecules*, 49 (11), pp. 4211-4219. 10.1021/acs.macromol.6b00521

- 1631.** Mahalik, J.P., Sumpter, B.G., Kumar, R. Vertical Phase Segregation Induced by Dipolar Interactions in Planar Polymer Brushes (2016) *Macromolecules*, 49 (18), pp. 7096-7107. 10.1021/acs.macromol.6b01138

- 1632.** Wassel, E., Jiang, S., Song, Q., Vogt, S., Nöll, G., Druzhinin, S.I., Schönherr, H. Thickness Dependence of Bovine Serum Albumin Adsorption on Thin Thermoresponsive Poly(diethylene glycol) Methyl Ether Methacrylate Brushes by Surface Plasmon Resonance Measurements (2016) *Langmuir*, 32 (36), pp. 9360-9370. 10.1021/acs.langmuir.6b02708

- 1633.** Posel, Z., Posocco, P., Lescar, M., Fermeglia, M., Pricl, S. Highly grafted polystyrene/polyvinylpyridine polymer gold nanoparticles in a good solvent: Effects of chain length and composition (2016) *Soft Matter*, 12 (15), pp. 3600-3611. 10.1039/c5sm02867a

- 1634.** Kreer, T. Polymer-brush lubrication: A review of recent theoretical advances (2016) *Soft Matter*, 12 (15), pp. 3479-3501. 10.1039/c5sm02919h

1635. Leuty, G.M., Tsige, M., Grest, G.S., Rubinstein, M. Tension Amplification in Tethered Layers of Bottle-Brush Polymers (2016) *Macromolecules*, 49 (5), pp. 1950-1960. 10.1021/acs.macromol.5b02305
1636. Ji, Q.-J., Yuan, B., Lu, X.-M., Yang, K., Ma, Y.-Q. Controlling the Nanoscale Rotational Behaviors of Nanoparticles on the Cell Membranes: A Computational Model (2016) *Small*, 12 (9), pp. 1140-1146. 10.1002/sml.201501885
1637. Tsakova, V. The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew" (2016) *Chemistry*, 25 (1), pp. 35-67
514. Mitov, M., Chorbadzhiyska, E., **Rashkov, R.**, Hubenova, Y.. Novel nanostructured electrocatalysts for hydrogen evolution reaction in neutral and weak acidic solutions. *International Journal of Hydrogen Energy*, 37, 21, 2012, ISSN:3603199, DOI:10.1016/j.ijhydene.2012.02.102, 16522-16526

Цумура се в:

1638. Wen-Hui Hu, Xiao Shang, Guan-Qun Han, Bin Dong, Yan-Ru Liu, Xiao Li, Yong-Ming Chai, Yun-Qi Liu, Chen-Guang Liu, MoS<sub>x</sub> supported graphene oxides with different degree of oxidation as efficient electrocatalysts for hydrogen evolution *Carbon* Volume 100, April 2016, Pages 236–242
1639. Lin Ma, Limei Xu, Xuyao Xu, Xiaoping Zhou, Jin Luo, Lingling Zhang,, Cobalt-doped edge-rich MoS<sub>2</sub>/nitrogenated graphene composite as an electrocatalyst for hydrogen evolution reaction *Materials Science and Engineering: B* Volume 212, October 2016, Pages 30–38
1640. Xiao Shang, Wen-Hui Hu, Guan-Qun Han, Zi-Zhang Liu, Bin Dong, Yan-Ru Liu, Xiao Li, Yong-Ming Chai, Chen-Guang Liu, Crystalline phase-function relationship of in situ growth Ni<sub>x</sub>S<sub>y</sub> controlled by sulfuration degree for oxygen evolution reaction *International Journal of Hydrogen Energy* Volume 41, Issue 30, 10 August 2016, Pages 13032–13038
1641. Kadier, A., Kalil, M.S., Abdeshahian, P., Chandrasekhar, K., Mohamed, A., Azman, N.F., Logroño, W., Simayi, Y., Hamid, A.A., Recent advances and emerging challenges in microbial electrolysis cells (MECs) for microbial production of hydrogen and value-added chemicals (Review) *Renewable and Sustainable Energy Reviews* Volume 61, 1 August 2016, Pages 501-525
1642. Lu Lu, Dianxun Hou, Yanfen Fang, Yingping Huang, Zhiyong Jason Ren, Nickel based catalysts for highly efficient H<sub>2</sub> evolution from wastewater in microbial electrolysis cells *Electrochimica Acta* Volume 206, 10 July 2016, Pages 381–387
515. **Krastev, I., Dobrovolska, Ts.,** La?njevac, U., Nineva, S.. Pattern formation during electrodeposition of indium-cobalt alloys. *Journal of Solid State Electrochemistry*, 16, 11, 2012, ISSN:14328488, DOI:10.1007/s10008-012-1766-8, 3449-3456

Цумура се в:

1643. Golvano-Escobal, I., Gonzalez-Rosillo, J.C., Domingo, N., Illa, X., Lopez-Barberá, J.F., Fornell, J., Solsona, P., Aballe, L., Foerster, M., Surinäch, S., Baro, M.D., Puig, T., Pané, S., Nogués, J., Pellicer, E., Sort, J., Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks, *Scientific Reports*, 6, 2016 6:30398 | DOI: 10.1038/srep30398 (open access).
1644. Lacitignola, D., Bozzini, B., Sgura, I., Spatio-temporal organization in a morphochemical electrodeposition model: Hopf and Turing instabilities and their interplay, *Eur. J. Appl. Math.*, 26, 2, (2015), 143-173.
1645. V.D Jovic, Chapter 7 Electrodeposited Alloys and Multilayered Structures in Popov, K.I.; Djokic S.S.; Nikolic, N.D.; Jovic, V.D., *Morphology of electrochemically and chemically deposited* page 158/197

**1646.** Golvano-Escobal, Irati; de Dios Sirvent, Juan; Ferran-Marqués, Marta; Surinach, Santiago; Baro, Maria Dolors; Pané, Salvador; Sort, Jordi; Pellicer, Eva, Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure, *Materials&Design*, 2016, ISSN/ISBN 0264-1275, doi: 10.1016/j.matdes.2016.11.088

**516.** Nanev, C.N., Hodzhaoglu, F.V.. Temperature control of protein crystal nucleation. *Crystal Research and Technology*, 47, 11, 2012, ISSN:2321300, DOI:10.1002/crat.201200340, 1195-1200

*Цумура се в:*

**1647.** Liu, Yong-Ming, et al. "Sensitivity of lysozyme crystallization to temperature variation." *CrystEngComm* 18.9 (2016): 1609-1617.

**517.** Bocker, C., Ressel, C., Avramov, I.. "Crystal growth in non-isochemical, highly viscous liquids and percolation theory". *Chemical Physics*, 406, 2012, ISSN:3010104, DOI:10.1016/j.chemphys.2012.07.015, 50-54

*Цумура се в:*

**1648.** S Liu, Y Kong, H Tao, Y Sang - *Journal of the European Ceramic Society*, 2016, <http://dx.doi.org/10.1016/j.jeurceramsoc.2016.08.038>

**518.** Auer, S., Ricchiuto, P., Kashchiev, D.. Two-step nucleation of amyloid fibrils: Omnipresent or not". *Journal of Molecular Biology*, 422, 5, 2012, ISSN:222836, DOI:10.1016/j.jmb.2012.06.022, 723-730

*Цумура се в:*

**1649.** Qiao, Qin, et al. "Dynamics of the conformational transitions during the dimerization of an intrinsically disordered peptide: a case study on the human islet amyloid polypeptide fragment." *Physical Chemistry Chemical Physics* 18.43 (2016): 29892-29904.

**1650.** Buell, Alexander K. "The Nucleation of Protein Aggregates-From Crystals to Amyloid Fibrils." *International Review of Cell and Molecular Biology* (2016) DOI: 10.1016/bs.ircmb.2016.08.014

**1651.** Šarić, Anđela, et al. "Kinetics of spontaneous filament nucleation via oligomers: insights from theory and simulation." *The Journal of Chemical Physics* 145.21 (2016): 211926.

**1652.** Nusrat, Saima, et al. "Repositioning nordihydroguaiaretic acid as a potent inhibitor of systemic amyloidosis and associated cellular toxicity." *Archives of Biochemistry and Biophysics* 612 (2016): 78-90.

**1653.** Michaels, Thomas CT, Alexander J. Dear, and Tuomas PJ Knowles. "Scaling and dimensionality in the chemical kinetics of protein filament formation." *International Reviews in Physical Chemistry* 35.4 (2016): 679-703.

**1654.** Smit, Florent X., Jurriaan A. Luiken, and Peter G. Bolhuis. "Primary Fibril Nucleation of Aggregation Prone Tau Fragments PHF6 and PHF6." *The Journal of Physical Chemistry B* (2016), DOI: 10.1021/acs.jpccb.6b07045

**1655.** Psonka-Antonczyk, Katarzyna M., et al. "Nanoscale structure and spectroscopic probing of A $\beta$ 1-40 fibril bundle formation." *Frontiers in Chemistry* 4 (2016), doi: 10.3389/fchem.2016.00044

**1656.** Guo, Can, et al. "Kinetic Pathways and Mechanisms of Two-step Nucleation in Crystallization." *The Journal of Physical Chemistry Letters* 7 (24) (2016) 5008–5014

**519.** Dobrovolska, Ts., Lopez-Sauri, D.A., Veleva, L., Krastev, I.. Oscillations and spatio-temporal

structures during electrodeposition of AgCd alloys. *Electrochimica Acta*, 79, 2012, ISSN:134686, DOI:10.1016/j.electacta.2012.06.100, 162-169. ISI IF:3.777

Цумура се в:

- 1657.** O.I. Gichan, V.V. Pototskaya, Can a form of electrode/electrolyte interface change the ranges of dynamic instabilities?, *Bulgarian Chemical Communications*, Volume 48, Special Issue B (pp. 7 – 12) 2016.
- 1658.** Golvano-Escobal, I., Gonzalez-Rosillo, J.C., Domingo, N., Illa, X., Lopez-Barberá, J.F., Fornell, J., Solsona, P., Aballe, L., Foerster, M., Surinäch, S., Baro, M.D., Puig, T., Pané, S., Nogués, J., Pellicer, E., Sort, J., Spontaneous formation of spiral-like patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks, *Scientific Reports*, 6, 2016
- 1659.** Golvano-Escobal, Irati; de Dios Sirvent, Juan; Ferran-Marqués, Marta; Surinach, Santiago; Baro, Maria Dolors; Pané, Salvador; Sort, Jordi; Pellicer, Eva, Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure, *Materials&Design*, 2016, ISSN/ISBN 0264-1275, doi: 10.1016/ j.matdes.2016.11.088

- 520.** Schabbach, L.M., Andreola, F., Barbieri, L., Lancellotti, I., **Karamanova, E., Ranguelov, B., Karamanov, A.** Post-treated incinerator bottom ash as alternative raw material for ceramic manufacturing. *Journal of the European Ceramic Society*, 32, 11, 2012, ISSN:9552219, DOI:10.1016/j.jeurceramsoc.2012.01.020, 2843-2852

Цумура се в:

- 1660.** Nkayem Njeumen D.E., Mbey J.A., Dikko Kenne B.B., Njopwouo D., Preliminary study on the use of corn cob as pore forming agent in lightweight clay bricks: Physical and mechanical features, *Journal of Building Engineering*, Volume 5, March 2016, Pages 254–259, ISSN: 2352-7102
- 1661.** Zhu, J., Shi, P., Wang, F., Zhao, T., Jiang, H., Preparation of separative-phase fancy glaze derived from iron ore slag, *Ceramics International*, Volume 42, Issue 4, 1 March 2016, pages 5250-5257
- 1662.** Tsakova, V., The bulgarian physicochemical tradition and the institute of physical chemistry "Academician Rostislav Kaischew", *Chemistry*, volume 25, Issue 1, 2016, pages 35-67
- 1663.** Zhao, L., Li, Y., Zhang, L. and Cang, D., Effects of CaO and Fe<sub>2</sub>O<sub>3</sub> on the Microstructure and Mechanical Properties of SiO<sub>2</sub>–CaO–MgO–Fe<sub>2</sub>O<sub>3</sub> Ceramics from Steel Slag. *ISIJ International*, pp.ISIJINT-2016.
- 1664.** Shih, K. and Chuang, K.H., 2016. Treatment and Use of Ashes from Solid Waste Processing. In *Sustainable Solid Waste Management* (pp. 549-576).

- 521.** **Karamanov, A., Avramov, I., Arrizza, L., Pascova, R., Gutzow, I.** Variation of Avrami parameter during non-isothermal surface crystallization of glass powders with different sizes. *Journal of Non-Crystalline Solids*, 358, 13-Dec, Elsevier, 2012, ISSN:223093, DOI:10.1016/j.jnoncrysol.2012.04.003, 1486-1490. ISI IF:1.766

Цумура се в:

- 1665.** Liu, Z., Zong, Y., Hou, J., Preparation of slag glass ceramic from electric arc furnace slag, quartz sand and talc under various MgO/Al<sub>2</sub>O<sub>3</sub> ratios, *Advances in Applied Ceramics* 115 (3), pp. 144-151
- 1666.** P Zemenová, R Král, K Nitsch, K Knížek, A Cihlář, *Journal of Thermal Analysis and Calorimetry* 125(3) (2016) 1431-1437



**1667.** AG Sabato, G Cempura, D Montinaro, A Chrysanthou, M. Salvo, E. Bernardo, M. Secco, F. Smeacetto, *Journal of Power Sources* Volume 328, 1 October 2016, Pages 262–270

**522.** Reith, D., **Milchev, A.**, Virnau, P., Binder, K.. Computer simulation studies of chain dynamics in polymer brushes. *Macromolecules*, 45, 10, 2012, ISSN:249297, DOI:10.1021/ma202745b, 4381-4393

*Цумура се в:*

**1668.** Lang, M., Werner, M., Dockhorn, R., Kreer, T. Arm Retraction Dynamics in Dense Polymer Brushes (2016) *Macromolecules*, 49 (14), pp. 5190-5201. 10.1021/acs.macromol.6b00761

**1669.** Chen, G., Das, S. Anomalous Shrinking-Swelling of Nanoconfined End-Charged Polyelectrolyte Brushes: Interplay of Confinement and Electrostatic Effects (2016) *Journal of Physical Chemistry B*, 120 (27), pp. 6848-6857. 10.1021/acs.jpccb.6b04636

**1670.** De Beer, S., Mensink, L.I.S., Kieviet, B.D. Geometry-Dependent Insertion Forces on Particles in Swollen Polymer Brushes (2016) *Macromolecules*, 49 (3), pp. 1070-1078. 10.1021/acs.macromol.5b01960

**523.** **Georgieva, J., Valova, E., Armyanov, S.**, Philippidis, N., Poullos, I., Sotiropoulos, S.. Bi-component semiconductor oxide photoanodes for the photoelectrocatalytic oxidation of organic solutes and vapours: A short review with emphasis to TiO<sub>2</sub>-WO<sub>3</sub> photoanodes. *Journal of Hazardous Materials*, 211-212, 2012, ISSN:3043894, DOI:10.1016/j.jhazmat.2011.11.069, 30-46

*Цумура се в:*

**1671.** A. Sajjadi, S. A. H. Ravandi, H. Izadan, N. Kadivar, Purification of Methylene Blue via Photocatalytic Nanofibrous Membranes Containing TiO<sub>2</sub> Nanoparticles, *J. Engineered Fibers and Fabrics*, 11 (4) 43–55 (2016)

**1672.** J. Bai, R. Wang, Y. Li, Y. Tang, Q. Zeng, L. Xia, X. Li, J. Li, C. Li, B. Zhou, A Solar Light Driven Dual Photoelectrode Photocatalytic Fuel Cell (PFC) for Simultaneous Wastewater Treatment and Electricity Generation, *J. Hazardous Materials*, 311, 51-62 (2016)

**1673.** S. V. Mohite, V. V. Ganbavle, K. Y. Rajpure, Solar photoelectrocatalytic activities of rhodamine-B using sprayed WO<sub>3</sub> photoelectrode, *J. Alloys & Compounds*, 655, 106-113 (2016)

**1674.** G. G. Bessegato, J. C. Cardoso, B. F. da Silva, Maria V. B. Zanoni, Combination of photoelectrocatalysis and ozonation: A novel and powerful approach applied in acid yellow 1 mineralization, *Appl. Catalysis B: Environmental*, 80, 161-168 (2016)

**1675.** Z. Hua, Z. Dai, X. Bai, Z. Ye, P. Wang, H. Gu, X. Huang, Copper nanoparticles sensitized TiO<sub>2</sub> nanotube arrays electrode with enhanced photoelectrocatalytic activity for diclofenac degradation, *Chem. Engin. J.*, 283, 514–523 (2016)

**1676.** T. T. Guaraldo, V. R. Gonçales, B. F. Silva, S. I. C. de Torresi, M. V. B. Zanoni, *J. Electroanalyt. Chem.*, 765, 188-196 (2016) Hydrogen production and simultaneous photoelectrocatalytic pollutant oxidation using a TiO<sub>2</sub>/WO<sub>3</sub> nanostructured photoanode under visible light irradiation

**1677.** L. Mais, P. Ampudia, S. Palmasa, A. Vacca, M. Mascia, F. Ferrara, Synthesis of Nanostructured Materials for Photoelectrochemical Oxidation of Organic Compounds, *Chem. Engin. Transact.*, 47, 157-162 (2016)

**1678.** L. Lin, C.-P. Cheng, T.-P. Teng, Electrodeposition-Based Fabrication and Characteristics of Tungsten Trioxide Thin Film, *J. of Nanomaterials*, 2016 Article ID 3623547, 12 pages (2016)

**1679.** Y. Yu, Z. Hu, Y. Zhang, Hongwen Gao, CTAB@BiOCl: a highly adsorptive photocatalyst for eliminating dye contamination, *RSC Adv.*, 6, 18577-18582 (2016)

**1680.** N. Tadić, S. Stojadinović, N. Radić, B. Grbić, R. Vasilić, Characterization and photocatalytic properties of tungsten doped TiO<sub>2</sub> coatings on aluminum obtained by plasma electrolytic oxidation, *Surf. Coat. Technol.*, 305, 192-199 (2016)

**524.** H?che, T., Patzig, C., Gemming, T., Wurth, R., R?ssel, C., **Avramov, I.** Temporal evolution of diffusion barriers surrounding ZrTiO<sub>4</sub> nuclei in lithia aluminosilicate glass-ceramics. *Crystal Growth and Design*, 12, 3, 2012, ISSN:15287483, DOI:10.1021/cg2016148, 1556-1563

Цумупа се в:

**1681.** J Yang, B Liu, S Zhang,

**1682.** Fu Q, Wheaton BR, Geisinger KL, Credle AJ and Wang J (2016) Crystallization, Microstructure, and Viscosity Evolutions in Lithium Aluminosilicate Glass-Ceramics. *Front. Mater.* 3:49. doi: 10.3389/fmats.2016.00049

**525. Georgieva, J.** TiO<sub>2</sub>/WO<sub>3</sub> photoanodes with enhanced photocatalytic activity for air treatment in a polymer electrolyte cell. *Journal of Solid State Electrochemistry*, 16, 3, 2012, ISSN:14328488, DOI:10.1007/s10008-011-1504-7, 1111-1119

Цумупа се в:

**1683.** Gu, K., Zhong, P., Guo, M. et al., Enhanced toluene sensing performance of gold-functionalized WO<sub>3</sub>·H<sub>2</sub>O nanosheets, *J. Solid State Electrochem.* (2016) 20: 3337. doi:10.1007/s10008-016-3301-9

**1684.** Wenzhang Li, Guanhua Jin, Haishi Hu, Jie Li, Yanghui Yang, Qiyuan Chen, Phosphotungstic acid and WO<sub>3</sub> incorporated TiO<sub>2</sub> thin films as novel photoanodes in dye-sensitized solar cells, *Electrochimica Acta* 153 (2015) 499–507

**526. Ilijeva, M., Nakova, A., Tsakova, V.** TiO<sub>2</sub>/WO<sub>3</sub> hybrid structures produced through a sacrificial polymer layer technique for pollutant photoand photoelectrooxidation under ultraviolet and visible light illumination. *Journal of Applied Electrochemistry*, 42, 2, 2012, ISSN:0021891X, DOI:10.1007/s10800-011-0378-9, 121-129. ISI IF:2.409

Цумупа се в:

**1685.** L. Mais, P. Ampudia, S. Palmas, A. Vacca, M. Mascia, F. Ferrara “Synthesis of Nanostructured Materials for Photoelectrochemical Oxidation of Organic Compounds” *Chemical Engineering Transactions* 47(2016) 157-162 DOI: 10.3303/CET1647027

**1686.** M. A. Barakat, R. Kumar, Photocatalytic Activity Enhancement of Titanium Dioxide Nanoparticles. Degradation of Pollutants in Wastewater, *SpringerBriefs in Molecular Science*, Springer, Heidelberg, 2016, ISBN 978-3-319-24269

**1687.** Y. Liu, Y.G. Adewuyi, “A Review on Removal of Elemental Mercury from Flue Gas Using Advanced Oxidation Process: Chemistry and Process”, *Chemical Engineering Research and Design* 112 (2016) 199-250 <http://dx.doi.org/10.1016/j.cherd.2016.06.024>

**1688.** N. Tadić, St. Stojadinović, N. Radić, B. Grbić, R. Vasilić, “Characterization and photocatalytic properties of tungsten doped TiO<sub>2</sub> coatings on aluminum obtained by plasma electrolytic oxidation” *Surface & Coatings Technology* 305 (2016) 192–199 <http://dx.doi.org/10.1016/j.surfcoat.2016.08.045>

- 527. Zhivkov A.M.** Electric properties of carboxymethyl cellulose. Cellulose - Fundamental Aspects, (Ed.) Theo G.M. van de Ven, Chapter 8, InTech, Rijeka, 2013, 31, 1-31

Цумупа се в:

- 1689.** K.P. Contreras Lozano, Desarrollo de una bebida de maíz dulce (*Zea mays* var. *Saccharata*) con adición de hidrocoloides y aloe vera (*Aloe barbadensis* Miller), Doctoral dissertation, Universidad Nacional de Colombia - Sede Medellín, 2016.

- 528.** Jalili, K., Abbasi, F., **Milchev, A.** Surface microdynamics phase transition and internal structure of high-density, ultrathin PHEMA-b-PNIPAM diblock copolymer brushes on silicone rubber. *Macromolecules*, 46, 13, 2013, DOI:10.1021/ma4003962, 5260-5278. ISI IF:5.8

Цумупа се в:

- 1690.** Gomi, S., Andou, Y., Nishida, H. Auto-drawing and functionalization by vapor-phase assisted polymerization on solid surface (2016) *Journal of Photopolymer Science and Technology*, 29 (1), pp. 17-23. 10.2494/photopolymer.29.17

- 1691.** Zhou, C., Li, R., Luo, W., Chen, Y., Zou, H., Liang, M., Li, Y. The preparation and properties study of polydimethylsiloxane-based coatings modified by epoxy resin (2016) *Journal of Polymer Research*, 23 (1), art. no. 14, pp. 1-10. 10.1007/s10965-015-0903-3

- 1692.** Zhuang, P., Dirani, A., Glinel, K., Jonas, A.M. Temperature Dependence of the Surface and Volume Hydrophilicity of Hydrophilic Polymer Brushes (2016) *Langmuir*, 32 (14), pp. 3433-3444. 10.1021/acs.langmuir.6b00448

- 529.** Boiadjieva, T., **Mirkova, L.**, Kronberger, H., Steck, T., **Monev, M.** Hydrogen permeation through steel electroplated with Zn or Zn-Cr coatings. *Electrochimica Acta*, 114, 2013, ISSN:134686, DOI:10.1016/j.electacta.2013.06.010, 790-798

Цумупа се в:

- 1693.** K. Igarashi, M. Sakairi Effect of Surface Conditions and Specimen Composition on Hydrogen Permeation Behavior of Coated and Uncoated Steels during Wet and Dry Corrosion at a Constant Dew Point *ISIJInternational*, 56(3) (2016) 465-471

- 1694.** A. Nazarov, F. Vucko, D. Thierry Scanning Kelvin Probe for detection of the hydrogen induced by atmospheric corrosion of ultra-high strength steel *Electrochim. Acta*, DOI: 10.1016/j.electacta.2016.08.122

- 1695.** J.P.D. Carvalho, E.O. Vilar, B.A. Araujo A critical review and experimental analysis of the equation recommended by ASTM G148-97 and ISO 17081: 2004 for the calculation of the hydrogen diffusivity in metals and alloys *International Journal of Hydrogen*, in press

- 530.** Paturej, J., **Milchev, A.**, Egorov, S.A., Binder, K.. Star polymers confined in a nanoslit: A simulation test of scaling and self-consistent field theories. *Soft Matter*, 9, 44, 2013, ISSN:1744683X, DOI:10.1039/c3sm51275d, 10522-10531

Цумупа се в:

- 1696.** Wei, Z., Ning, N., Zhang, L., Tian, M., Mi, J. Density functional theory of polymer structure and conformations (2016) *Polymers*, 8 (4), art. no. 121, 10.3390/polym8040121

- 1697.** Hua, Y., Zhang, D., Zhang, L. Compression-driven migration of nanoparticles in semiflexible polymer brushes (2016) *Polymer (United Kingdom)*, 83, pp. 67-76. 10.1016/j.polymer.2015.12.003

531. Gancheva, M.N., Iordanova, R.S., Dimitriev, Y.B., **Avdeev, G.V.**, Iliev, T.C.. Effects of mechanical activation on structure and photocatalytic properties of ZnO powders. Central European Journal of Chemistry, 11, 11, 2013, ISSN:18951066, DOI:10.2478/s11532-013-0314-4, 1780-1785

Цумура се в:

1698. Archives of Pharmacal Research Volume 39, Issue 10, 1 October 2016, Pages 1418-1425 Effect of thermal and mechano-chemical activation on the photocatalytic efficiency of ZnO for drugs degradation (Article) Kaneva, N., Bojinova, A., Papazova, K., Dimitrov, D., Zaharieva, K., CherkezovaZheleva, Z., Eliyas, A.

532. Klushin, L., **Milchev, A.**, Skvortsov, A.. Efficient separation of long polymer chains by contour length and architecture. ACS Macro Letters, 2, 10, 2013, ISSN:21611653, DOI:10.1021/mz400314d, 879-881

Цумура се в:

1699. Zhou, L.-Q., Yu, W.-C., Chen, Y.-H., Luo, K.-F. Ejection dynamics of semiflexible polymers out of a nanochannel (2016) Chinese Journal of Polymer Science (English Edition), 34 (10), pp. 1196-1207. 10.1007/s10118-016-1842-0

533. Engelhardt, K., Lexis, M., **Gochev, G.**, Konnerth, C., Miller, R., Willenbacher, N., Peukert, W., Braunschweig, B.. PH effects on the molecular structure of  $\beta$ -lactoglobulin modified air-water interfaces and its impact on foam rheology. Langmuir, 29, 37, 2013, ISSN:7437463, DOI:10.1021/la402729g, 11646-11655

Цумура се в:

1700. Dombrowski, J., Johler, F., Warncke, M., Kulozik, U., Correlation between bulk characteristics of aggregated  $\beta$ -lactoglobulin and its surface and foaming properties, Food Hydrocolloids 61 (2016) 318-328.

1701. Lech, F.J., Delahaije, R.J.B.M., Meinders, M.B.J., Gruppen, H., Wierenga, P.A., Identification of critical concentrations determining foam ability and stability of  $\beta$ -lactoglobulin, Food Hydrocolloids 57 (2016) 46-54.

1702. Wolf, A., Rauh, C., Delgado, A., Dynamics and long-time behavior of a small bubble in viscous liquids with applications to food rheology: Impact of pressure and material characteristics on bubble shape, Archive of Applied Mechanics 86 (6) (2016) 979-1002.

1703. Dombrowski, J., Dechau, J., Kulozik, U., Multiscale approach to characterize bulk, surface and foaming behavior of casein micelles as a function of alkalisation, Food Hydrocolloids 57 (2016) 92-102.

1704. Wolz, M., Mersch, E., Kulozik, U., Thermal aggregation of whey proteins under shear stress, Food Hydrocolloids 56 (2016) 396-404.

1705. Ng, S.K., Nyam, K.L., Nehdi, I.A., (...), Lai, O.M., Tan, C.P. Impact of stirring speed on  $\beta$ -lactoglobulin fibril formation, Food Science and Biotechnology 25 (2016) 15-21.

1706. Li, R., Wu, Z., Wang, Y., Ding, L., Wang, Y., Role of pH-induced structural change in protein aggregation in foam fractionation of bovine serum albumin, Biotechnology Reports 9 (2016) 46-52.

1707. Çelebioğlu, H.Y., Gudjónsdóttir, M., Chronakis, I.S., Lee, S., Investigation of the interaction between mucins and  $\beta$ -lactoglobulin under tribological stress, Food Hydrocolloids 54 (2016) 57-65.

1708. Strazdaite, S., Meister, K., Bakker, H.J., Orientation of polar molecules near charged protein interfaces, Physical Chemistry Chemical Physics 18 (10) (2016) 7414-7418.

- 534.** Ilieva, L., Tabakova, T., Pantaleo, G., Ivanov, I., Zanella, R., Paneva, D., Velinov, N., Sobczak, J.W., Lisowski, W., **Avdeev, G.**, Venezia, A.M.. Nano-gold catalysts on Fe-modified ceria for pure hydrogen production via WGS and PROX: Effect of preparation method and Fe-doping on the structural and catalytic properties. *Applied Catalysis A: General*, 467, 2013, ISSN:0926860X, DOI:10.1016/j.apcata.2013.07.014, 76-90

*Цумура се в:*

**1709.** *Chemical Reviews* Volume 116, Issue 6, 23 March 2016, Pages 3722-3811 Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis (Review) Gawande, M.B., Goswami, A., Felpin, F.-X., Asefa, T.bc, Huang, X., Silva, R., Zou, X., Zboril, R., Varma, R.S.

**1710.** *Korean Journal of Chemical Engineering* Volume 33, Issue 6, 1 June 2016, Pages 1781-1787 Preferential CO oxidation over supported Pt catalysts (Article) Jeon, K.-W., Jeong, D.-W., Jang, W.-J., Shim, J.-O., Na, H.-S., Kim, H.-M., Lee, Y.-L.a, Jeon, B.-H., Kim, S.-H.a, Bae, J.W.c, Roh, H.-S.

- 535.** Bocker, C., R?ssel, C., **Avramov, I.** Transparent nano crystalline glass-ceramics by interface controlled crystallization. *International Journal of Applied Glass Science*, 4, 3, 2013, ISSN:20411286, DOI:10.1111/ijag.12033, 174-181

*Цумура се в:*

**1711.** Fu Q, Wheaton BR, Geisinger KL, Credle AJ and Wang J (2016) Crystallization, Microstructure, and Viscosity Evolutions in Lithium Aluminosilicate Glass-Ceramics. *Front. Mater.* 3:49. doi: 10.3389/fmats.2016.00049

**1712.** G Krieke, A Sarakovskis - *Journal of the European Ceramic Society*, 2016, doi:10.1016/j.jeurceramsoc.2016.01.025

- 536.** **Milkova, V., Kamburova, K., Radeva, T.** Nanocolloids of indomethacin prepared using sonication and subsequent encapsulation with polysaccharide films. *Colloids and Surfaces B: Biointerfaces*, 108, 2013, ISSN:9277765, DOI:10.1016/j.colsurfb.2013.02.024, 279-284. SJR:1.009, ISI IF:4.152

*Цумура се в:*

**1713.** Dalmoro, A., Sitenkov, A.Y., Lamberti, G., Barba, A.A., Moustafine, R.I., Ultrasonic atomization and polyelectrolyte complexation to produce gastroresistant shell-core microparticles, *J. Appl. Polymer Sci.* 133 (6), 42976 (2016).

**1714.** Chung, T.-W., Chou, T.-H., Wu, K.-Y., Gelatin/PLGA hydrogel films and their delivery of hydrophobic drugs, *J. Taiwan Institute Chem. Eng.* 60, 8-14 (2016).

**1715.** Polomska, A., Leroux, J.-C., Brambilla, D., Layer-by-Layer Coating of Solid Drug Cores: A Versatile Method to Improve Stability, Control Release and Tune Surface Properties, *Macromolecular Bioscience*, 2016 doi:10.1002/mabi.201600228

**1716.** Polomska, A., Gauthier, M. A., Leroux, J.-C., In Vitro and In Vivo Evaluation of PEGylated Layer-by-Layer Polyelectrolyte-Coated Paclitaxel Nanocrystals, *Small*, 2016, DOI: 10.1002/smll.201602066

- 537.** Dan, A., **Gochev, G.**, Kr?gel, J., Aksenenko, E.V., Fainerman, V.B., Miller, R.. Interfacial rheology of mixed layers of food proteins and surfactants. *Current Opinion in Colloid and Interface Science*, 18, 4, 2013, ISSN:13590294, DOI:10.1016/j.cocis.2013.04.002, 302-310

*Цумура се в:*

**1717.** Kezwoń, A., Góral, I., Frańczyk, T., Wojciechowski, K., Effect of surfactants on surface activity

and rheological properties of type I collagen at air/water interface, *Colloids and Surfaces B* 148 (2016) 238-248.

1718. Derkatch, S.R., Kolotova, D.S., Milyaeva, O.Y., Noskov, B.A., Dynamic properties of gelatin/surfactant adsorption layers, *Colloids and Surfaces A* 508 (2016) 251-256.
1719. Liu, L., Yuan, F., Gao, Y.,  $\alpha$ -lactalbumin enhancing emulsion stability of  $\beta$ -carotene, *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering* 32 (2016) 423-429.
1720. Fainerman, V.B., Aksenenko, E.V., Krägel, J., Miller, R., Thermodynamics, interfacial pressure isotherms and dilational rheology of mixed protein-surfactant adsorption layers, *Adv. Colloid and Interface Sci.* 233 (2016) 200-222.
1721. Onaizi, S.A., Nasser, M.S., Al-Lagtah, N.M.A., Benchmarking the Self-Assembly of Surfactin Biosurfactant at the Liquid–Air Interface to those of Synthetic Surfactants, *J. of Surfactants and Detergents* 19 (3) (2016) 645-652.
1722. Fallah, F., Khorasani, M., Ebrahimi, M., Comparative study of gel emulsification and direct mechanical emulsification methods, *Colloids and Surfaces A* 492 (2016) 207-212.
1723. Kezwoń, A., Chromińska, I., Fraczyk, T., Wojciechowski, K., Effect of enzymatic hydrolysis on surface activity and surface rheology of type I collagen, *Colloids and Surfaces B* 137 (2016) 60-69.
538. Czarnecki, J., **Tchoukov, P.**, Dabros, T., Xu, Z.. Role of asphaltenes in stabilisation of water in crude oil emulsions. *Canadian Journal of Chemical Engineering*, 91, 8, 2013, ISSN:84034, DOI:10.1002/cjce.21835, 1365-1371
- Цумура се е:*
1724. Zheng, Sheng, Thanaphoom Khрутphisit, and H. Scott Fogler. "Entrapment of Water Droplets in Wax Deposits from Water-in-Oil Dispersion and Its Impact on Deposit Build-up." *Energy & Fuels* (2016), Article ASAP
1725. Tavakkoli, Mohammad, Andrew Chen, Chi-An Sung, Kelly M. Kidder, Je Jin Lee, Saeed M. Alhassan, and Francisco M. Vargas. "Effect of Emulsified Water on Asphaltene Instability in Crude Oils." *Energy & Fuels* (2016), 30, pp 3676–3686
1726. Chahardowli, Mohammad, Rouhi Farajzadeh, and Hans Bruining. "Experimental investigation of the use of the dimethyl ether/polymer hybrid as a novel enhanced oil recovery method." *Journal of Industrial and Engineering Chemistry* 38 (2016): 50-60
1727. Gonzalez, Valeska, and Spencer E. Taylor. "Asphaltene adsorption on quartz sand in the presence of pre-adsorbed water." *Journal of Colloid and Interface Science* 480 (2016): 137-145
1728. Chahardowli, Mohammad, Rouhi Farajzadeh, and Hans Bruining. "Experimental Investigation of Dimethyl Ether/Polymer Hybrid as an Enhanced Oil Recovery Method." In *SPE EOR Conference at Oil and Gas West Asia*. Society of Petroleum Engineers, 2016
1729. Liang, Chen. "Design and Application of Responsive Composite Particles for Multiphase Separations of Bitumen Emulsions in Bituminous (Oil) Sands Extraction." PhD diss., University of Alberta, 2016
539. **Lyutov, V.V.**, Ivanov, S.D., Mirsky, V.M., **Tsakova, V.T.** Polyaniline doped with poly(acrylamidomethylpropanesulphonic acid): Electrochemical behaviour and conductive properties in neutral solutions. *Chemical Papers*, 67, 8, 2013, ISSN:3666352, DOI:10.2478/s11696-013-0341-9, 1002-1011

Цумура се в:

**1730.** D. Gandla, C. Putta, S. Ghosh, B.K Hazra, Carbon Sphere-Polyaniline Composite: A Fluorescent Scaffold for Proliferation of Adipose Derived Stem Cells and its Cellular uptake, Chem. Select, 1 (2016) 3063 – 3070.

**540.** Egorov, SA, Paturej, J., Likos, CN, **Milchev, A.** Controlling the interactions between soft colloids via surface adsorption. Macromolecules, 46, 9, 2013, 3648-3653. ISI IF:5.8

Цумура се в:

**1731.** Denton, A.R., Tang, Q. Counterion-induced swelling of ionic microgels (2016) Journal of Chemical Physics, 145 (16), art. no. 164901, DOI: 10.1063/1.4964864

**1732.** Urich, M., Denton, A.R. Swelling, structure, and phase stability of compressible microgels (2016) Soft Matter, 12 (44), pp. 9086-9094. 10.1039/c6sm02056a

**541.** Korutcheva, E., Koroutchev, K., **Markov, I.** Slope selection of mounds with permeable steps in homoepitaxy. European Physical Journal B, 86, 2, 2013, ISSN:14346028, DOI:10.1140/epjb/e2012-30884-4

Цумура се в:

**1733.** Zhao, Renjie, James W. Evans, and Tiago J. Oliveira. "Permeability and kinetic coefficients for mesoscale BCF surface step dynamics: Discrete two-dimensional deposition-diffusion equation analysis." Physical Review B 93.16 (2016): 165411.

**1734.** Rogilo, D. I., et al. "2D Si island nucleation on the Si (111) surface at initial and late growth stages: On the role of step permeability in pyramidlike growth." Journal of Crystal Growth 457 (2016) 188–195.

**542.** Mintsouli, I., **Georgieva, J., Armyanov, S., Valova, E., Avdeev, G.,** Hubin, A., Steenhaut, O., Dille, J., Tsiplakides, D., Balomenou, S., Sotiropoulos, S.. Pt-Cu electrocatalysts for methanol oxidation prepared by partial galvanic replacement of Cu/carbon powder precursors. Applied Catalysis B: Environmental, 136-137, 2013, ISSN:9263373, DOI:10.1016/j.apcatb.2013.01.059, 160-167

Цумура се в:

**1735.** Li, R., Ma, Z., Zhang, F., Meng, H., Wang, M., Bao, X.-Q., Tang, B., Wang, X. Facile Cu<sub>3</sub>P-C hybrid supported strategy to improve Pt nanoparticle electrocatalytic performance toward methanol, ethanol, glycol and formic acid electro-oxidation, Electrochimica Acta, 220, 193-204 (2016)

**1736.** A.T.E. Vilian, S.-K. Hwang, Kwak, C.H., Oh, S.Y., Kim, C.-Y.c, Lee, G.-W.bd, Lee, J.B., Huh, Y.S., Han, Y.-K, Pt-Au bimetallic nanoparticles decorated on reduced graphene oxide as an excellent electrocatalysts for methanol oxidation, Synthetic Metals, 219, 52-59 (2016)

**1737.** Zhao, T.-T., Zhang, L., Zeng, H., Lin, R, Influence of metal precursor on the performance of PtCu/C catalyst for proton exchange membrane fuel cell, Ranliao Huaxue Xuebao/Journal of Fuel Chemistry and Technology, 44, 613-620 (2016)

**1738.** X. Peng, D. Chen, X. Yang, D. Wang, M. Li, C.-C. Tseng, R. Panneerselvam, X. Wang, W. Hu, J. Tian, Y. Zhao, Microwave-assisted Synthesis of Highly Dispersed PtCu Nanoparticles on Three-Dimensional Nitrogen-doped Graphene Networks with Remarkably Enhanced Methanol Electrooxidation, ACS Appl. Mater. Interfaces, 8, 33673-33680 (2016).

**1739.** S. Mandegarzad, J. B. Raoof, S.R. Hosseini, R. Ojani, Cu-Pt bimetallic nanoparticles supported metal organic framework-derived nanoporous carbon as a catalyst for hydrogen evolution reaction, Electrochim. Acta, 190, 729-736, (2016)

1740. Y. Huang, T. Zhao, L. Zeng, P. Tan, J. Xu, A facile approach for preparation of highly dispersed platinum-copper/carbon nanocatalyst toward formic acid electro-oxidation, *Electrochimica Acta*, 190, 956–963 (2016)
1741. X. W. Du, S. Luo, H. Du, M. Tang, X. Huang, P. K. Shen, Monodisperse and self-assembled Pt-Cu nanoparticles as an efficient electrocatalyst for methanol oxidation reaction, *J. Mater. Chem. A*, 4, 1579-1585 (2016), DOI: 10.1039/C5TA09261B
1742. R. M. Abdel Hameed, R. S. Amin, K. M. El-Khatib, A. E. Fetohi, Preparation and characterization of Pt–CeO<sub>2</sub>/C and Pt–TiO<sub>2</sub>/C electrocatalysts with improved electrocatalytic activity for methanol oxidation, *Applied Surface Science*, 367, 382-390 (2016)
1743. J. Jin, H. Mei, H. Wu, S. Wang, Q. Xia, Y. Ding, Selective detection of dopamine based on Cu<sub>2</sub>O@Pt core-shell nanoparticles modified electrode in the presence of ascorbic acid and uric acid, *J. Alloys & Compounds*, 689, 174-181 (2016)
1744. G. Caballero-Manrique, I. M. Nadeem, E. Brillas, F. Centellas, J. A. Garrido, R. M. Rodríguez, P.-L. Cabot, Effects of the Electrodeposition Time in the Synthesis of Carbon-Supported Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Polymer Electrolyte Fuel Cells, *Catalysts*, 6, 125-138 p. (2016)
543. Christova, N., Tuleva, B., Kril, A., Georgieva, M., Konstantinov, S., **Terziyski, I.**, Nikolova, B., Stoineva, I. Chemical structure and in vitro antitumor activity of rhamnolipids from pseudomonas aeruginosa BN10. *Applied Biochemistry and Biotechnology*, 170, 3, 2013, ISSN:2732289, DOI:10.1007/s12010-013-0225-z, 676-689. ISI IF:1.735

Цумура се в:

1745. Akiyode, O., George, D., Getti, G., Boateng, J., *Journal of Colloid and Interface Science*, Systematic comparison of the functional physico-chemical characteristics and biocidal activity of microbial derived biosurfactants on blood-derived and breast cancer cells
1746. Paulino B.N., Pessoa M.G., Mano M.C.R., Molina G., Neri-Numa I.A., Pastore G.M., Current status in biotechnological production and application of glycolipid biosurfactants, *Applied Microbiology and Biotechnology*, 100 (24) (2016), 10265-10293.
1747. Mnif I., Ghribi D., Glycolipid biosurfactants main properties and potential applications in agriculture and food industry, *Journal of Science of Food and Agriculture* (2016), 4310-4320.
1748. Gudina E.J., Rodrigues A.I., de Freitas V., Azevedo Z., Teixeira J.A., Rodrigues L.R., Valorization of agro-industrial wastes towards the production of rhamnolipids, *Bioresource Technology*, 212 (2016), 144-150.
544. Avramova, I., Suzer, S., **Guergova, D., Stoychev, D.**, Stefanov, P.. CeO<sub>x</sub>/Al<sub>2</sub>O<sub>3</sub> thin films on stainless steel substrate - Dynamical X-ray photoelectron spectroscopy investigations. *Thin Solid Films*, 536, 2013, ISSN:0040-6090, DOI:10.1016/j.tsf.2013.03.049, 63-67. SJR:0.693, ISI IF:1.759

Цумура се в:

1749. Yuanyuan Liu, Jiamu Huang, James B. Claypool, and Matthew J. O’Keefe, Structure and Corrosion Behavior of Sputter Deposited Ce-Al-O Coating on Al 2024-T3 Alloy Substrates, *Journal of The Electrochemical Society*, 163 (5) C198-C204 (2016)
545. **Naney, C.N., Tonchev, V.D., Hodzhaoglu, F.V.** Protocol for growing insulin crystals of uniform size. *Journal of Crystal Growth*, 375, 2013, ISSN:220248, DOI:10.1016/j.jcrysgro.2013.04.010, 10-15

Цумура се в:

1750. Sebastian Puhl, Lorenz Meinel, Oliver Germershaus, Recent advances in crystalline and



amorphous particulate protein formulations for controlled delivery, Asian journal of pharmaceutical sciences 11, 4 (2016) 469–477.

- 546. Milkova, V., Radeva, T.** Effect of ionic strength and molecular weight on electrical properties and thickness of polyelectrolyte bi-layers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 424, 2013, ISSN:9277757, DOI:10.1016/j.colsurfa.2013.02.034, 52-58

Цумура се в:

- 1751.** Ge, A., Matsusaki, M., Qiao, L., Akashi, M., Ye, S., Salt Effects on Surface Structures of Polyelectrolyte Multilayers (PEMs) Investigated by Vibrational Sum Frequency Generation (SFG) Spectroscopy, *Langmuir* 32 (16), 3803-3810 (2016)

- 547. Gochev, G., Retzlaff, I., Aksenenko, E.V., Fainerman, V.B., Miller, R.** Adsorption isotherm and equation of state for  $\beta$ -Lactoglobulin layers at the air/water surface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 422, 2013, ISSN:9277757, DOI:10.1016/j.colsurfa.2013.01.008, 33-38

Цумура се в:

- 1752.** Dombrowski, J., Johler, F., Warncke, M., Kulozik, U., Correlation between bulk characteristics of aggregated  $\beta$ -lactoglobulin and its surface and foaming properties, *Food Hydrocolloids* 61 (2016) 318-328.

- 1753.** Cai, B., Ikeda, S., Effects of the conjugation of whey proteins with gellan polysaccharides on surfactant-induced competitive displacement from the air-water interface, *J. of Dairy Science* 99 (8) (2016) 6026-6035.

- 1754.** Fainerman, V.B., Aksenenko, E.V., Krägel, J., Miller, R., Thermodynamics, interfacial pressure isotherms and dilational rheology of mixed protein-surfactant adsorption layers, *Adv. Colloid and Interface Sci.* 233 (2016) 200-222.

- 1755.** Dombrowski, J., Dechau, J., Kulozik, U., Multiscale approach to characterize bulk, surface and foaming behavior of casein micelles as a function of alkalisation, *Food Hydrocolloids* 57 (2016) 92-102.

- 548. Mileva, E., Soklev, B., Michailova, V., Arabadzhieva, D.** Functionalized core-shell nanoparticles for medical applications. *Inhaler Devices: Fundamentals, Design and Drug Delivery*, Woodhead Publishing Ltd., 2013, DOI:10.1533/9780857098696.2.146, 23, 146-169

Цумура се в:

- 1756.** Eliete Gama Lima, Luciano Ribeiro Gomes and Ana Maria Carmona-Ribeiro, Stable Indomethacin Dispersions in Water from Drug, Ethanol, Cationic Lipid and Carboxymethyl-Cellulose, *Pharmaceutical Nanotechnology*, 4 (2016) 1-10

- 549. Koleva, D.A., Denkova, A.G., Boshkov, N., Van Breugel, K.** Electrochemical performance of steel in cement extract and bulk matrix properties of cement paste in the presence of Pluronic 123 micelles. *Journal of Materials Science*, 48, 6, 2013, ISSN:222461, DOI:10.1007/s10853-012-7037-3, 2490-2503

Цумура се в:

- 1757.** Song, Y., Tian, Y., Zhao, X., Guo, H., Zhang, H., “Corrosion process of ductile iron with cement mortar linings as coatings in reclaimed water”, (2016), *International Journal of Electrochemical Science*, 11, (8), 7031-7047.

- 550. Iamboliev, T., Valkanov, S., Atanasova, S.** Microstructure embrittlement of hard metal-steel joint

obtained under induction heating diffusion bonding. *International Journal of Refractory Metals and Hard Materials*, 37, 2013, ISSN:2634368, DOI:10.1016/j.ijrmhm.2012.10.021, 90-97. ISI IF:1.989

Цумура се в:

- 1758.** Fu, H.a, Zhang, X.a, Liu, G.ab, Xu, Z.a, Pan, T.b, Qiao, G.ac. Wetting and interfacial behaviors of molten Ag, Cu and Ag-28Cu on WC-8Co cemented carbide. *Engineering Materials*, 697, 555-560.
- 1759.** Xiang-yuan Yu, Dong-ran Zhou, De-jun Yao, Feng-gui Lu, Pei-quan Xu. Fiber laser welding of WC-Co to carbon steel using Fe-Ni Invar as interlayer. *International Journal of Refractory Metals and Hard Materials*, 56, 76-86.
- 1760.** X.Z. Zhang, G.W. Liu, J.N. Tao, H.C. Shao, H. Fu, T.Z. Pan, G.J. Qiao. Vacuum Brazing of WC-8Co Cemented Carbides to Carbon Steel Using Pure Cu and Ag-28Cu as Filler Metal. *Journal of Materials Engineering and Performance*, 2016

- 551.** **Karamanov, A.**, Dzhantov, B., Paganelli, M., Sighinolfi, D.. Glass transition temperature and activation energy of sintering by optical dilatometry. *Thermochimica Acta*, 553, 2013, ISSN:406031, DOI:10.1016/j.tca.2012.10.006, 1-7

Цумура се в:

- 1761.** Andreola, F., Barbieri, L., Lancellotti, I., Martín, M. I., Rincòn, J. M., & Romero, M. Thermal approach to evaluate the sintering–crystallization ability in a nepheline–forsterite-based glass-ceramics. *Journal of Thermal Analysis and Calorimetry*, 2015, 1-8. ISSN:1388-6150
- 1762.** Kumar, T.S., Viswanathan, N.N., Ahmed, H.M., Andersson, C. and Björkman, B., 2016. Estimation of Sintering Kinetics of Magnetite Pellet Using Optical Dilatometer. *Metallurgical and Materials Transactions B*, 47(1), pp.309-319.
- 1763.** Ribeiro, S., Gênova, L.A., Ribeiro, G.C., Oliveira, M.R. and Bressiani, A.H.A., 2016. Effect of heating rate on the shrinkage and microstructure of liquid phase sintered SiC ceramics. *Ceramics International*, 42(15), pp.17398-17404.

- 552.** Stubbe, M., **Gyurova, A.**, Gimsa, J.. Experimental verification of an equivalent circuit for the characterization of electrothermal micropumps: High pumping velocities induced by the external inductance at driving voltages below 5 V. *Electrophoresis*, 34, 4, 2013, ISSN:1730835, DOI:10.1002/elps.201200340, 562-574. ISI IF:3.028

Цумура се в:

- 1764.** Liu, W., Shao, J., Ren, Y., Wu, Y., Wang, C., Ding, H., Jiang, H., Ding, Y., Effects of discrete-electrode arrangement on traveling-wave electroosmotic pumping, *Journal of Micromechanics and Microengineering*, (2016) DOI: 10.1088/0960-1317/26/9/095003.
- 1765.** Liu, W., Wang, C., Ding, H., Shao, J., Ding, Y., AC electric field induced dielectrophoretic assembly behavior of gold nanoparticles in a wide frequency range, *Applied Surface Science*, 370 (2016) 184-192.
- 1766.** Vafaie, R.H., Ghavifekr, H.B., Van Lintel, H., Brugger, J., Renaud, P., Bi-directional ACET micropump for on-chip biological applications, *Electrophoresis*, 37 (2016) 719-726.

- 553.** Shoumkova, A., **Stoyanova, V.** "SEM-EDX and XRD characterization of zeolite NaA, synthesized from rice husk and aluminium scrap by different procedures for preparation of the initial hydrogel". *Journal of Porous Materials*, 20, 1, Springer, 2013, ISSN:13802224, DOI:10.1007/s10934-012-9594-x, 249-255. ISI IF:1.108

Цумура се в:

- 1767.** Sulfosuccinic acid-sulfonated polyether ether ketone/organo functionalized microporous zeolite-13X membrane electrolyte for direct methanol fuel cells, Sasikala, S., Gopi, K.H., Bhat, S.D. *Microporous and Mesoporous Materials* 236 (2016) 38-47
- 1768.** Metal doped green zeolites for waste water treatment: A sustainable remediation model, Tabassum, N., Rafique, U., Ashraf, M.A., *Journal of the Chemical Society of Pakistan*, 38 (3) (2016). 424-437.
- 1769.** Synthesis of Zeolite NaA from a New Biosilica Source, Terzioğlu, P., Yücel, S., Öztürk, M., *Waste and Biomass Valorization*, 7(5) (2016) 1271–1277. doi:10.1007/s12649-016-9518-0
- 554. Kashchiev, D.,** Cabriolu, R., Auer, S.. Confounding the paradigm: Peculiarities of amyloid fibril nucleation. *Journal of the American Chemical Society*, 135, 4, 2013, ISSN:27863, DOI:10.1021/ja311228d, 1531-1539

Цумура се в:

- 1770.** Bellucci, Luca, et al. "The interaction with gold suppresses fiber-like conformations of the amyloid  $\beta$  (16–22) peptide." *Nanoscale* 8.16 (2016): 8737-8748.
- 1771.** Qiao, Qin, et al. "Dynamics of the conformational transitions during the dimerization of an intrinsically disordered peptide: a case study on the human islet amyloid polypeptide fragment." *Physical Chemistry Chemical Physics* 18.43 (2016): 29892-29904.
- 1772.** Buell, Alexander K. "The Nucleation of Protein Aggregates-From Crystals to Amyloid Fibrils." *International Review of Cell and Molecular Biology* (2016), DOI: 10.1016/bs.ircmb.2016.08.014
- 1773.** Šarić, Anđela, et al. "Kinetics of spontaneous filament nucleation via oligomers: insights from theory and simulation." *The Journal of Chemical Physics* 145.21 (2016): 211926.
- 1774.** Zou, Yu, et al. "Critical Nucleus Structure and Aggregation Mechanism of the C-terminal Fragment of Copper–Zinc Superoxide Dismutase Protein." *ACS chemical neuroscience* 7.3 (2016): 286-296.
- 1775.** Musiani, F., and A. Giorgetti. "Protein Aggregation and Molecular Crowding: Perspectives From Multiscale Simulations." *International Review of Cell and Molecular Biology* (2016), doi:10.1016/bs.ircmb.2016.08.009
- 1776.** Joswiak, Mark N., Michael F. Doherty, and Baron Peters. "Critical length of a one-dimensional nucleus." *The Journal of Chemical Physics* 145.21 (2016): 211916.
- 1777.** Michaels, Thomas CT, Alexander J. Dear, and Tuomas PJ Knowles. "Scaling and dimensionality in the chemical kinetics of protein filament formation." *International Reviews in Physical Chemistry* 35.4 (2016): 679-703.
- 555. Jordanov, N.,** Wondraczek, L., **Gutzow, I.** Thermodynamic properties of vitreous electrodes in a Ni/NiP glass-crystal Galvanic cell. *Journal of Non-Crystalline Solids*, 382, 2013, ISSN:223093, DOI:10.1016/j.jnoncrysol.2012.10.028, 125-132

Цумура се в:

- 1778.** J. Hu, P. Wang, P. Liu, G. Cao, Q. Wang, M. Wei, J. Mao, C. Liang, G. Shao, In Situ Fabrication of Nano Porous NiO-Capped Ni3P film as Anode for Li-Ion Battery with Different Lithiation Path and Significantly Enhanced Electrochemical Performance, *Electrochimica Acta*, 220 (2016) 258-266. ISSN: 0013-4686
- 556.** Shoumkova, A., **Stoyanova, V.** "Zeolites formation by hydrothermal alkali activation of coal fly ash

from thermal power station "Maritsa 3", Bulgaria". Fuel, 103, 2013, ISSN:162361, DOI:10.1016/j.fuel.2012.07.076, 533-541. SJR:1.568, ISI IF:3.52

Цумура се е:

- 1779.** Sánchez-Hernández, R., López-Delgado, A., Padilla, I., Galindo, R., López-Andrés, S., One-step synthesis of NaP1, SOD and ANA from a hazardous aluminum solid waste, Microporous and Mesoporous Materials 226 (2016) 267-277.
- 1780.** Yang Luo, Shuhua Ma, Chunli Liu, Wang Xiaohui Effect of particle size and alkali activation on coal fly ash and their role in sintered ceramic tiles, Journal of the European Ceramic Society · November 2016 DOI: 10.1016/j.jeurceramsoc.2016.11.032
- 1781.** Behin, J., Bukhari, S.S., Kazemian, H., Rohani, S., Developing a zero liquid discharge process for zeolitization of coal fly ash to synthetic NaP zeolite, Fuel 171 (2016). 195-202
- 1782.** Bandura, L., Panek, R., Rotko, M., Franus, W., Synthetic zeolites from fly ash for an effective trapping of BTX in gas stream, Microporous and Mesoporous Materials 223 (2016) 1-9.
- 1783.** Bukhari, Syed Salman Raza, "Microwave and Ultrasound Assisted Zeolitization of Coal Fly Ash" (2016). Electronic Thesis and Dissertation Repository. Paper 3997.
- 1784.** Jiang, Z., Yang, J., Ma, H., Ma, X., Yuan, J., Synthesis of pure NaA zeolites from coal fly ashes for ammonium removal from aqueous solutions, Clean Technologies and Environmental Policy 18 (3), (2016) 629-637. doi:10.1007/s10098-015-1072-0
- 1785.** Pa, F.C., Chik, A., Fazlul Bari, Md., Treated oil palm ash as precursor in the zeolite synthesis, Key Engineering Materials 673 (2016) 13-20. 10.4028/www.scientific.net/KEM.673.13
- 1786.** S. GolbadP. KhoshnoudN. Abu-Zahra, Hydrothermal synthesis of hydroxy sodalite from fly ash for the removal of lead ions from water, Int. J. Environ. Sci. Technol. (2016) 1-8, doi:10.1007/s13762-016-1133-x

**557. Krastev, I., Dobrovolska, T..** Pattern formation during electrodeposition of alloys. Journal of Solid State Electrochemistry, 17, 2, 2013, ISSN:14328488, DOI:10.1007/s10008-012-1971-5, 481-488

Цумура се е:

- 1787.** Defu Liang, Wenbo Shao and Giovanni Zangari, Selection of Phase Formation in Electroplated Ag-Cu Alloys, doi: 10.1149/2.0651602jes J. Electrochem. Soc. 2016 volume 163, issue 2, D40-D48
- 1788.** 582. V.D Jovic, Chapter 7 Electrodeposited Alloys and Multilayered Structures in Popov, K.I.; Djokic S.S.; Nikolic, N.D.; Jovic, V.D., Morphology of electrochemically and chemically deposited metals, © Springer International Publishing Switzerland 2016, ISBN 978-3-319-26071-6 ISBN 978-3-319-26073-0 (eBook) DOI 10.1007/978-3-319-26073-0.
- 1789.** Golvano-Escobal, Irati; de Dios Sirvent, Juan; Ferran-Marqués, Marta; Surinach, Santiago; Baro, Maria Dolors; Pané, Salvador; Sort, Jordi; Pellicer, Eva, Cross-sectioning spatio-temporal Co-In electrodeposits: Disclosing a magnetically-patterned nanolaminated structure, Materials&Design, 2016, ISSN/ISBN 0264-1275, doi: 10.1016/j.matdes.2016.11.088
- 1790.** Liang, D., Shao, W., & Zangari, G. (2016). Selection of Phase Formation in Electroplated Ag-Cu Alloys. Journal of The Electrochemical Society, 163(2), D40-D48

**558. Petrova, P., Tabakova, T., Munteanu, G., Zanella, R., Tsvetkov, M., Ilieva L..** Gold catalysts on Co-doped ceria for complete benzene oxidation: Relationship between reducibility and catalytic activity. 2013, DOI:10.1016/j.catcom.2013.03.010, ISI IF:3.389

Цумура се в:

**1791.** Au-supported on Fe-doped ceria solids prepared in water-in-oil microemulsions: Catalysts for CO oxidation

**559. Piroeva, I., Atanassova-Vladimirova, S., Dimowa, L., Sbirikova, H., Radoslavov, G., Hristov, P., Shivachev, B.L..** A simple and rapid scanning electron microscope preparative technique for observation of biological samples: Application on bacteria and DNA samples. Bulgarian Chemical Communications, 45, 4, Bulgarian Academy of Sciences, 2013, ISSN:8619808, 510-515. ISI IF:0.349

Цумура се в:

**1792.** Oyehan, T.A., Al-Thukair, A.A., Isolation and characterization of PAH-degrading bacteria from the Eastern Province, Saudi Arabia, Marine Pollution Bulletin (2016), article in press

**1793.** Braun, M., Zimmermann, S., Danner, M., Rashid, H., Wink, M. Corynebacterium uropygiale sp. nov., isolated from the preen gland of Turkeys (Meleagris gallopavo). Systematic and Applied Microbiology, 39, 2, 88-92

**1794.** G. Ravichandran, V. Kumaresan, M. Valan Arasu, N. Abdullah Al-Dhabi, M. Ganesh, A. Maheshe, A. Dhayalane, M. Pasupuletif, J. Arockiaraj. Pellino-1 derived cationic antimicrobial prawn peptide: Bactericidal activity, toxicity and mode of action. Molecular Immunology, 78, 171–182.

**1795.** DELEON, H. Application of polystyrene disk substrates in cellular cultivation methods: generalized specimen preparation protocol for scanning electron microscopy. Journal of Microscopy

**560. Mintsouli, I., Georgieva, J., Valova, E., Arnyanov, S., Kakaroglou, A., Hubin, A., Steenhaut, O., Dille, J., Papaderakis, A., Kokkinidis, G., Sotiropoulos, S..** Pt-Ni carbon-supported catalysts for methanol oxidation prepared by Ni electroless deposition and its galvanic replacement by Pt. Journal of Solid State Electrochemistry, 17, 2, 2013, ISSN:14328488, DOI:10.1007/s10008-012-1915-0, 435-443

Цумура се в:

**1796.** J. Liu, B. Chen, Y. Kou, Z. Liu, X. Chen, Y. Li, Y. Deng, X. Han, W. Hua, C. Zhong, Pt-decorated highly porous flower-like Ni particles with high mass activity for ammonia electro-oxidation, J. Materials Chemistry A, 4, 11060-11068 (2016).

**1797.** J.R. Rodriguez, S. Fuentes Moyado, M.T. Oropeza-Guzman, S.B. Aguirre, José Romo-Herrera, R. Huirache-Acuña, G. Berhault, G. Alonso-Núñez, Methanol dehydrogenation and oxidation on Pt1–XNiX/CNTs at low temperature: Effect of Ni addition, Renewable Energy, 99, 437-442 (2016)

**1798.** S. Diodati, E. Negro, K. Vezzù, V. Di Noto, S. Gross, Oxygen reduction reaction and X-ray photoelectron spectroscopy characterisation of carbon nitride-supported bimetallic electrocatalysts, Electrochim. Acta, 215, 398–409 (2016)

**561. Stoychev, D..** Corrosion protective ability of electrodeposited ceria layers. Journal of Solid State Electrochemistry, 17, 2, 2013, ISSN:14328488, DOI:10.1007/s10008-012-1937-7, 497-509

Цумура се в:

**1799.** Protection of metals and physical chemistry of surfaces 52(5):894-899 · September 2016 DOI: 10.1134/S2070205116050026 • F. Aiouaz, Marc Jeannin, J. Creus, Boualem Saidani Elaboration and microstructural characterization of calcareous/ceria based composite on zinc substrate

**1800.** Fe/TiO<sub>2</sub> composite coatings modified by ceria layer: Electrochemical synthesis using environmentally friendly methanesulfonate electrolytes and application as photocatalysts for

organic dyes degradation V.S. Protsenko, E.A. Vasil'eva, A.V. Tsurkan, A.A. Kityka S.A. Korniy, F.I. Danilov Journal of Environmental Chemical Engineering, <http://dx.doi.org/10.1016/j.jece.2016.11.034>

**1801.** Journal of Environmental Chemical Engineering Fe/TiO<sub>2</sub> composite coatings modified by ceria layer: Electrochemical synthesis using environmentally friendly methanesulfonate electrolytes and application as photocatalysts for organic dyes degradation V.S. Protsenko, E.A. Vasil'eva, A.V. Tsurkana, A.A. Kityka, S.A. Korniy, F.I. Danilova, Available online 25 November 2016 <http://dx.doi.org/10.1016/j.jece.2016.11.034>

**1802.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

**1803.** Aïouaz, F., Jeannin, M., Creus, J. et al. Elaboration and microstructural characterization of calcareous/ceria based composite on zinc substrate Protection of metals and physical chemistry of surfaces 52(5):894-899 · September 2016, doi:10.1134/S2070205116050026

**1804.** J Gulicovski, J Bajat, B Jokić, V Panić, V. Mišković-Stanković, S. Milonjić, Protective ability and impedance response of sol–gel reversely transformed ceria conversion coating on aluminium Journal of Solid State Electrochemistry January 2016, Volume 20, Issue 1, pp 293-303 DOI 10.1007/s10008-015-3040-3

**562. Piroeva, I.,** Dimowa, L., **Atanasova-Vladimirova, S.,** Petrova, N., Shivachev, B.L.. Synthesis, structural and optical characterization of TeO<sub>2</sub>-GeO<sub>2</sub>-Nd<sub>2</sub>O<sub>3</sub> glasses. Bulgarian Chemical Communications, 45, 4, Bulgarian Academy of Sciences, 2013, ISSN:8619808, 491-496. ISI IF:0.349

Цитирани в:

**1805.** N. PARVEEN, M. JALI, S. D PATIL. STRUCTURE AND OPTICAL PROPERTIES OF TeO<sub>2</sub>-GeO<sub>2</sub> GLASSES. Proceedings of 47th IRF International Conference, 10th January 2016, Pune, India.

**563.** Javadi, A., Mucic, N., Karbashi, M., Won, J.Y., Lotfi, M., Dan, A., **Gochev, G.,** Makievski, A.V., Kovalchuk, V.I., Kovalchuk, N.M., Kragel, J., Miller, R.. Characterization methods for liquid interfacial layers. The European Physical Journal Special Topics, 222, Springer, 2013, 7-29. ISI IF:1.417

Цитирани в:

**1806.** Zhang, L., Hu, S., Li, Z., (...), Zhang, L., Zhao, S., Interfacial Dilational Rheology of the Novel Zwitterionic Surfactants, Zeitschrift fur Physikalische Chemie 230 (2) (2016) 249-266.

**1807.** Liu, C., Zhang, J., Zheng, L., (...), Tan, X., Han, B., Metal–Organic Framework for Emulsifying Carbon Dioxide and Water, Angewandte Chemie - International Edition, 55 (38) (2016) 11372-11376.

**564.** J. L. A. Dubbeldam, V. G. Rostiashvili, **A. Milchev,** T. A. Vilgis. Driven translocation of a polymer: Fluctuations at work.. 2013

Цитирани в:

**1808.** Moisis, J.E., Piili, J., Linna, R.P. Driven polymer translocation in good and bad solvent: Effects of hydrodynamics and tension propagation (2016) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 94 (2), art. no. 022501, 10.1103/PhysRevE.94.022501

**1809.** Suhonen, P.M., Linna, R.P. Chaperone-assisted translocation of flexible polymers in three dimensions (2016) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 93 (1), art. no. 012406, 10.1103/PhysRevE.93.012406

565. Veleva S., Angelova R., Stoyanov L., Grudeva V., Kovacheva D., Mladenov M., **Boshkov N.**, Raicheff R.. "Biogenic iron oxide-based nanocomposite electrodes for hybrid battery-supercapacitors systems". *Nanoscience and Nanotechnology*, 4, 2014, 50-52

Цумура се в:

1810. Shopska, M., Paneva, D., Kadinov, G., Cherkezova-Zheleva, Z., Mitov, I., Iliev, M. "Study on the Composition of Biogenic Iron-Containing Materials Obtained Under Cultivation of the *Leptothrix* sp. on Different Media", (2016), *Applied Biochemistry and Biotechnology*, 1-17.

566. **Zhivkov A.M.**, Hristov R.P.. Electric polarizability dispersion of alumina particles with adsorbed carboxymethyl cellulose. *RSC Advances*, 4, Royal Society of Chemistry, 2014, ISSN:2046-2069, DOI:10.1039/c3ra40431e, 2715-2728. ISI IF:3.84

Цумура се в:

1811. Klemeshev S.A., Petrov M.P., Rolich V.I., Trusov A.A., Voitylov A.V., Vojtylov V.V., Static, dynamic and electric light scattering by aqueous colloids of diamond, *Diamond and Related Materials*, 69 (2016) 177-182.

1812. Petrov M.P., Shilov V.N., Trusov A.A., Voitylov A.V., Vojtylov V.V., Electro-optic research of polarizability dispersion in aqueous polydisperse suspensions of nanodiamonds, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 506 (2016) 40-49.

567. **Kamburova K.**, **Milkova V.**, **Radeva T.** Polyelectrolyte coatings on hematite nanoparticles impregnated with corrosion inhibitor benzotriazole. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 462, Elsevier wordmark, 2014, 237-243. ISI IF:2.752

Цумура се в:

1813. Kopec, M., Szczepanowicz, K., Warszynski, P., Nowak, P., Liquid-core polyelectrolyte nanocapsules produced by membrane emulsification as carriers for corrosion inhibitors, *Colloids Surf. A: Physicochem. Eng. Aspects*, 510, 2-10 (2016).

568. **Gochev, G.**, Retzlaff, I., **Exerowa, D.**, Miller, R.. Electrostatic stabilization of foam films from  $\gamma$ -lactoglobulin solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2013.12.037, 272-279

Цумура се в:

1814. Dombrowski, Jannika; Dechau, Johannes; Kulozik, Ulrich, Multiscale approach to characterize bulk, surface and foaming behavior of casein micelles as a function of alkalisation, *Food Hydrocolloids*, 57 (2016) 92-102

1815. Zhou, Shiqi, Change of electrostatic potential of mean force between two curved surfaces due to different salt composition, ion valence and size under certain ionic strength, *J.Physics&Chemistry of Solids*, 89 (2016) 53-61

1816. Frederik J. Lech, Roy J.B.M. Delahaije, Marcel B.J. Meinders...Identification of critical concentrations determining foam ability and stability of  $\beta$ -lactoglobulin solutions, *Food Hydrocolloids*, 57 (2016) 46-54

1817. Dombrowski, Jannika; Johler, Florian; Warncke, Malou; et al., Correlation between bulk characteristics of aggregated beta-lactoglobulin and its surface and foaming properties, *Food*

- 569.** Tabakova, T., Ilieva, L., Petrova, P., Venezia, A.M., **Avdeev, G.**, Zanella, R., Karakirova, Y.. Complete benzene oxidation over mono and bimetallic au-pd catalysts supported on fe-modified ceria. *Chemical Engineering Journal*, 260, Elsevier, 2014, ISSN:13858947, DOI:10.1016/j.cej.2014.08.099, 133-141

Цумура се в:

- 1818.** Decoration of one-dimensional MnO<sub>2</sub> with Co<sub>3</sub>O<sub>4</sub> nanoparticles: A heterogeneous interface for remarkably promoting catalytic oxidation activity Tang, Wenxiang; Yao, Mingshui; Deng, Yuzhou; et al. *CHEMICAL ENGINEERING JOURNAL* Volume: 306 Pages: 709-718 Published: DEC 15 2016
- 1819.** A mechanically synthesized SiO<sub>2</sub>-Fe metal matrix composite for effective dechlorination of aqueous 2-chlorophenol: The optimum of the preparation conditions Zhang, Y., Yang, B., Fan, J., Ma, L.
- 1820.** A mild and environmentally benign strategy towards hierarchical CeO<sub>2</sub>/Au nanoparticle assemblies with crystal facet-enhanced catalytic effects for benzyl alcohol aerobic oxidation (Article) Gong, X.a, Liu, B., Zhang, G., Xu, G., Zhao, T., Shi, D., Wang, Q.ab, Zhang, J.
- 1821.** *Catalysis Science and Technology* Volume 6, Issue 12, 2016, Pages 4260-4270 Promotional effect of HZSM-5 on the catalytic oxidation of toluene over MnO: X/HZSM-5 catalysts Huang, H., Zhang, C., Wang, L., Li, G.a, Song, L.a, Li, G., Tang, S., Li, X.
- 1822.** *Chemical Engineering Journal* Volume 283, January 01, 2016, Pages 922-928 Palladium nanoparticles confined within ZSM-5 zeolite with enhanced stability for hydrogenation of p-nitrophenol to p-aminophenol Wang, F., Ren, J., Cai, Y., Sun, L., Chen, C., Liang, S., Jiang, X
- 1823.** *RSC Advances* Volume 6, Issue 91, 2016, Pages 88859-88867 Design, synthesis and shape evaluation of cerium iron oxide nanorods for an epoxide opening reaction through azide addition (Article) Chaugule, A.A., Kim, H.
- 1824.** *Nanotechnology Reviews* Volume 5, Issue 1, 1 February 2016, Pages 147-181 Emerging nanostructured materials for the catalytic removal of volatile organic compounds (Review Li, J., Liu, H., Deng, Y.ab, Liu, G., Chen, Y., Yang, J.
- 1825.** *Microporous and Mesoporous Materials* Volume 224, 1 April 2016, Pages 311-322 Mesoporous Cr<sub>2</sub>O<sub>3</sub>-supported Au-Pd nanoparticles: High-performance catalysts for the oxidation of toluene (Article) Wu, Z., Deng, J., Xie, S., Yang, H., Zhao, X., Zhang, K., Lin, H., Dai, H., Guo, G.
- 1826.** *Catalysis Letters* Volume 146, Issue 7, 1 July 2016, Pages 1300-1308 Tricobalt tetraoxide-supported palladium catalyst derived from metal organic frameworks for complete benzene oxidation (Article) Li, J., Li, W., Liu, G., Deng, Y., Yang, J., Chen, Y
- 1827.** *Reaction Kinetics, Mechanisms and Catalysis* Volume 118, Issue 2, 1 August 2016, Pages 593-604 Total oxidation of benzene over cobalt-aluminum mixed oxides prepared from layered double hydroxides: influence of preparation methods (Article) Ding, Y., Fan, Y., Wei, X., Li, D., Xiao, Y., Jiang, L
- 1828.** *Atmospheric Environment* Volume 140, 1 September 2016, Pages 117-134 Catalytic oxidation of volatile organic compounds (VOCs) - A review (Review) Kamal, M.S., Razzak, S.A., Hossain, M.M.
- 1829.** *Catalysis Communications* Volume 85, 5 October 2016, Pages 70-74 Gold-catalyzed selectivity-switchable oxidation of benzyl alcohol in the presence of molecular oxygen (Article) Sun, J., Tong, X., Liu, Z., Liao, S., Zhuang, X., Xue, S.
- 1830.** *Chemical Engineering Journal* Volume 306, 15 December 2016, Pages 709-718 Decoration of one-dimensional MnO<sub>2</sub> with Co<sub>3</sub>O<sub>4</sub> nanoparticles: A heterogeneous interface for remarkably



promoting catalytic oxidation activity (Article) Tang, W., Yao, M., Deng, Y., Li, X., Han, N., Wu, X.a, Chen, Y

570. Georgiev, G.A., Yokoi, N., Ivanova, S., **Tonchev, V.**, Nencheva, Y., Krastev, R.. Surface relaxations as a tool to distinguish the dynamic interfacial properties of films formed by normal and diseased meibomian lipids. *Soft Matter*, 10, 30, Royal Society of Chemistry, 2014, ISSN:1744683X, DOI:10.1039/c4sm00758a, 5579-5588. ISI IF:4.029

Цумура се в:

1831. Lukasz Cwiklik, Tear film lipid layer: A molecular level view, *BBA - Biomembranes* 1858, 10 (2016) 2421 – 2430.
1832. Iksoo Kim, Hyeongmin Kim, Kyunghee Park, Sandeep Karki, Prakash Khadka, Kanghee Jo, Seong Yeon Kim, Jieun Ro, and Jaehwi Lee, Viscoelastic interactions between polydeoxyribonucleotide and ophthalmic excipients, *Drug Development and Industrial Pharmacy* 42, 2 (2016) 231 – 237.
1833. Sledge, S.M., Khimji, H., Borchman, D., Oliver, A.L., Michael, H., Dennis, E.K., Gerlach, D., Bhola, R., Stephen, E., Evaporation and Hydrocarbon Chain Conformation of Surface Lipid Films, *Ocular Surface*, Volume 14, Issue 4, 1 October 2016, Pages 447-459
1834. Reiko Arita, Naoto Mori, Rika Shirakawa, Kei Asai, Takahiro Imanaka, Yasufumi Fukano, Masatsugu Nakamura, Linoleic acid content of human meibum is associated with telangiectasia and plugging of gland orifices in meibomian gland dysfunction, *Experimental Eye Research* 145, (2016) 359-362. 10.1016/j.exer.2016.02.005.
1835. W. Chao, C. Belmonte, J.M. B. del Castillo et al., Report of the Inaugural Meeting of the TFOS i2 = initiating innovation Series: Targeting the Unmet Need for Dry Eye Treatment, *THE OCULAR SURFACE* 14, 2 (2016) 264 – 316.
1836. M. Saad Bhamla, Chew Chai, Noelle I. Rabiah, John M. Frostad, and Gerald G. Fuller, Instability and breakup of model tear films, *Invest Ophthalmol Vis Sci.* 2016;57:949–958. DOI:10.1167/iovs.15-18064
1837. V. A. dos Santos, L. Schmetterer, G. J. Triggs, R. A. Leitgeb, M. Gröschl, A. Messner, D. Schmidl, G. Garhofer, G. Aschinger and R. M. Werkmeister, Super-resolved thickness maps of thin film phantoms and in vivo visualization of tear film lipid layer using OCT, *BIOMEDICAL OPTICS EXPRESS* 7, 7 (2016) 2650 – 2670.
1838. P. Ewen King-Smith, The Evaporation Barrier of the Tear Film Lipid Layer, *Investigative Ophthalmology & Visual Science* 57, (2016) 959.
571. **Georgieva, J.**, Sotiropoulos, S., **Valova, E.**, **Armyanov, S.**, Karanasios, N.. Methanol oxidation and photo-oxidation at Pt/WO<sub>3</sub> electrocatalysts on graphite substrates. *Journal of Electroanalytical Chemistry*, 727, Elsevier, 2014, ISSN:15726657, DOI:10.1016/j.jelechem.2014.06.011, 135-140

Цумура се в:

1839. Daniel P DePuccio, Investigating the influence of gold nanoparticles on the photocatalytic and catalytic reactivity of porous tungsten oxide microparticles, 206 p. The University of Vermont and State Agricultural College, (PhD Thesis) ProQuest Dissertations Publishing, 2016. 10160748.
1840. N. Zhang, L. Du, C.Y. Du, G. Yin, Tin dioxide facilitating truncated octahedral Pt<sub>3</sub>Ni alloy catalyst: synthesis and ultra highly active and durable electrocatalysts for oxygen reduction reaction, *RSC Adv.*, 6, 26323-26328 (2016), DOI: 10.1039/C6RA02452A
1841. M. Abdullah, S. K. Kamarudin, L. K. Shyuan, TiO<sub>2</sub> Nanotube-Carbon (TNT-C) as Support for

Pt-based Catalyst for High Methanol Oxidation Reaction in Direct Methanol Fuel Cell, *Nanoscale Research Letters*, (2016) 11, 553 (18 pages) (2016)

**1842.** W.-Q. Bao, X.-D. He, Y. Wang, J.-B. He, Diffusion-restricted electrodeposition of platinum on solid carbon paste for electrocatalytic oxidation of methanol, *Catalysis Today*, 264, 198-205 (2016)

**1843.** Z. Li, L. Ye, Y. Wang, S. Xu, F. Lei, S. Lin, Visible light assisted electro-photo synergistic catalysis of heterostructured Pd-Ag NPs/graphene for methanol oxidation, *RSC Adv.*, 6, 79533-79541 (2016), DOI: 10.1039/C6RA17309H

**1844.** D. P. DePuccio, C. Landry, Photocatalytic Oxidation of Methanol Using Porous Au/WO<sub>3</sub> and Visible Light, *Catal. Sci. Technol.*, 6, 7512-7520 (2016), DOI: 10.1039/C6CY01449F

**572.** Sarabadani, J., **Milchev, A.**, Vilgis, T.A.. Structure and dynamics of polymer melt confined between two solid surfaces: A molecular dynamics study. *Journal of Chemical Physics*, 141, 4, American Institute of Physics Inc., 2014, ISSN:219606, DOI:10.1063/1.4890820

*Цумупа се е:*

**1845.** Wang, X., Lísal, M., Procházka, K., Limpouchová, Z. Computer Study of Chromatographic Separation Process: A Monte Carlo Study of H-Shaped and Linear Homopolymers in Good Solvent (2016) *Macromolecules*, 49 (3), pp. 1093-1102. 10.1021/acs.macromol.5b02327

**573.** **Milchev, A.**, Binder, K.. Unconventional ordering behavior of semi-flexible polymers in dense brushes under compression. *Soft Matter*, 10, 21, Royal Society of Chemistry, 2014, ISSN:1744683X, DOI:10.1039/c3sm53133c, 3783-3797

*Цумупа се е:*

**1846.** Storm, I.M., Kornreich, M., Voets, I.K., Beck, R., De Vries, R., Cohen Stuart, M.A., Leermakers, F.A.M. Loss of bottlebrush stiffness due to free polymers (2016) *Soft Matter*, 12 (38), pp. 8004-8014. 10.1039/c6sm01227b

**1847.** Kreer, T. Polymer-brush lubrication: A review of recent theoretical advances (2016) *Soft Matter*, 12 (15), pp. 3479-3501. 10.1039/c5sm02919h

**1848.** Hua, Y., Zhang, D., Zhang, L. Compression-driven migration of nanoparticles in semiflexible polymer brushes (2016) *Polymer (United Kingdom)*, 83, pp. 67-76. 10.1016/j.polymer.2015.12.003

**574.** Geboes, B., Mintsouli, I., Wouters, B., **Georgieva, J.**, Kakaroglou, A., Sotiropoulos, S., **Valova, E.**, **Armyanov, S.**, Hubin, A., Breugelmans, T.. Surface and electrochemical characterisation of a Pt-Cu/C nano-structured electrocatalyst, prepared by galvanic displacement. *Applied Catalysis B: Environmental*, 150-151, 2014, ISSN:9263373, DOI:10.1016/j.apcatb.2013.12.020, 249-256. SJR:2.088, ISI IF:7.435

*Цумупа се е:*

**1849.** C.-ho Ahn, T. Okada, M. Ishida, E. Yoo, H. Zhou, Electrochemical characteristic of based on carbon mixed with organic metal complex (Co(mqph)) in alkaline media Li-air battery, *J. Power Sources*, 307, 474-480 (2016)

**1850.** X. Jin, M. Zhao, M. Vora, J. Shen, C. Zeng, W. Yan, P. S. Thapa, B. Subramaniam, R. V. Chaudhari, Synergistic Effects of Bimetallic PtPd/TiO<sub>2</sub> Nanocatalysts in Oxidation of Glucose to Glucaric Acid: Structure Dependent Activity and Selectivity, *Ind. Eng. Chem. Res.*, 55, 2932-2945 (2016), DOI: 10.1021/acs.iecr.5b04841

**1851.** Y. Huang, T. Zhao, L. Zeng, P. Tan, J. Xu, A facile approach for preparation of highly dispersed platinum-copper/carbon nanocatalyst toward formic acid electro-oxidation, *Electrochimica Acta*,

190, 956–963 (2016)

- 1852.** G. Caballero-Manrique, I. M. Nadeem, E. Brillas, F. Centellas, J. A. Garrido, R. M. Rodríguez, P.-L. Cabot, Effects of the Electrodeposition Time in the Synthesis of Carbon-Supported Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Polymer Electrolyte Fuel Cells, *Catalysts*, 6, 125–138 p. (2016)
- 1853.** B. Narayanamoorthy, V. Linkov, C. Sita, S. Pasupathi, Pt3M (M: Co, Ni and Fe) Bimetallic Alloy Nanoclusters as Support-Free Electrocatalysts with Improved Activity and Durability for Dioxygen Reduction in PEM Fuel Cells, *Electrocatalysis*, 7, 400–410 (2016)
- 575.** Paturej, J., Dubbeldam, J.L.A., Rostiashvili, V.G., **Milchev, A.**, Vilgis, T.A.. Force spectroscopy of polymer desorption: Theory and molecular dynamics simulations. *Soft Matter*, 10, 16, Royal Society of Chemistry, 2014, ISSN:1744683X, DOI:10.1039/c3sm52618f, 2785–2799

Цитира се в:

- 1854.** Borah, R., Debnath, P. Rupture dynamics in model polymer systems (2016) *Soft Matter*, 12 (19), pp. 4406–4417. 10.1039/c6sm00711b
- 1855.** Kim, W.-S., Lee, H.-J., Chang, S.-M., Sano, M., Muramatsu, H., Kim, J. Measurement of binding force between histidine and transition metal ions (2016) *Journal of Nanoscience and Nanotechnology*, 16 (7), pp. 6930–6935. 10.1166/jnn.2016.11317
- 1856.** Kumar, S., Pattanayek, S.K., Pereira, G.G., Mohanty, S. Effect of Uniformly Applied Force and Molecular Characteristics of a Polymer Chain on Its Adhesion to Graphene Substrates (2016) *Langmuir*, 32 (11), pp. 2750–2760. 10.1021/acs.langmuir.5b04028
- 1857.** Arya, G. Models for recovering the energy landscape of conformational transitions from single-molecule pulling experiments (2016) *Molecular Simulation*, 42 (13), pp. 1102–1115. 10.1080/08927022.2015.1123257
- 576.** **Arabadzhieva, D., Tchoukov, P., Soklev, B., Mileva, E.** Interfacial layer properties and foam film drainage kinetics of aqueous solutions of hexadecyltrimethylammonium chloride. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2014.04.053, 28–37

Цитира се в:

- 1858.** Диляна Иванова, дисертация за ОНС „доктор”, "Изтъняване и критична дебелина на пенни филми от водни разтвори на смеси от п-додецил-β-малтозид с нейонни и йонни ПАВ Fractionation”, Факултет по химия и фармация, Софийски университет, София
- 577.** Cherneva, S., Iankov, R., Radic, N., Grbic, B., **Stoychev, D.** Nanoindentation investigation of mechanical properties of ZrO<sub>2</sub>, ZrO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub> thin films deposited on stainless steel OC 404 substrate by spray pyrolysis. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, 183, 1, 2014, ISSN:9215107, DOI:10.1016/j.mseb.2013.12.006, 12–16. SJR:0.762, ISI IF:2.169

Цитира се в:

- 1859.** Mohand Amokrane BRADAI, Abdelhamid SADEDDINE, Youcef MOUADJI, Ali BILEK, Abderrahim BENABBAS., Effect of TiO<sub>2</sub> and ZrO<sub>2</sub> reinforcements on properties of Al<sub>2</sub>O<sub>3</sub> coatings fabricated by thermal flame spraying, *Transactions of Nonferrous Metals Society of China*, Volume 26, Issue 5, May 2016, Pages 1345–1352, doi:10.1016/S1003-6326(16)64237-1
- 1860.** А.Цанев, Дисертация на тема „Получаване и охарактеризиране на смесени оксидни филми на циркония с редкоземни елементи Се и Y за каталитично приложение“ за присъждане на

научната и образователна степен „Доктор“ – ИОНХ-БАН, София, 2016 г

- 1861.** Damian Wojcieszak, Michal Mazur, D. Kaczmarek, M. Osekowska Structural and surface properties of semitransparent and Applied Surface Science, 380, in antibacterial (Cu, Ti, Nb)Ox coating Article 159-164, 2016. DOI: 10.1016/j.apsusc.2016.01.232
- 1862.** Topographic reconstruction and mechanical analysis of atomic layer deposited Al<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> nanolaminates by nanoindentation Emerson Coy a, , Luis Yate b, Zuzanna Kabacińska c, Mariusz Jancelewicz a, Stefan Jurga a, d, Igor Iatsunskyi a Materials and Design 111 (2016) 584–591
- 1863.** Kaupo Kukli, Emma Salmi, Taivo Jõgiaas, Markku Leskelä, Atomic layer deposition of aluminum oxide on modified steel substrates, Surface and Coatings Technology, • Surface and Coatings Technology Volume 304, 25 October 2016, Pages 1–8 Atomic layer deposition of aluminum oxide on modified steel substrates Kaupo Kuklia, b,, , Emma Salmia, Taivo Jõgiaasb, Roberts Zabelsc, Mikael Schuiskyd, Jörgen Westlinderd, Kenichiro Mizohatae, Mikko Ritalaa, d AB DOI: 10.1016/j.surfcoat.2016.06.064 •
- 578. Lyutov, V.,** Efimov, I., Bund, A., **Tsakova, V.** "Electrochemical polymerization of 3,4-ethylenedioxythiophene in the presence of dodecylsulfate and polysulfonic anions - An acoustic impedance study". Electrochimica Acta, 122, 2014, ISSN:134686, DOI:10.1016/j.electacta.2013.09.076, 21-27

Цитирани се в:

- 1864.** A.R Harris, P.J Molino, A.G Paolini, G.G Wallace, Effective Area and Charge Density of Chondroitin Sulphate Doped PEDOT Modified Electrodes, Electrochim. Acta, 197 (2016) 99 – 106.
- 1865.** A.R Harris, P.J. Molino, R.M.I. Kapsa, G.M. Clark, A.G Paolini, G.G Wallace, Effective area and charge density of dextran sulphate doped PEDOT modified electrodes, Synthetic Metals, 220 (2016) 394-401.
- 1866.** V. T. Gruia, Preparation and electrochemical performance of PEDOT – AuNPs nanocomposite layers for the selective detection of neurotransmitters, Dissertation, TU Ilmenau, 2016
- 1867.** O. L. Gribkova, O. D. Iakobson, A. A. Nekrasov, V. A. Cabanova, V. A. Tverskoy, A. V. Vannikov, The influence of polyacid nature on poly(3, 4-ethylenedioxythiophene) electrosynthesis and its spectroelectrochemical properties, Journal of Solid State Electrochemistry, 20 11 (2016) 2991–3001.
- 1868.** O. D. Iakobson, O. L. Gribkova, A. A. Nekrasov, A. V. Vannikov, The effect of counterion in polymer sulfonates on the synthesis and properties of poly-3, 4-ethylenedioxythiophene, Russian Journal of Electrochemistry, 52 12 (2016) 1191–1201.
- 1869.** O.L. Gribkova, O.D. Iakobson, A.A. Nekrasov, V.A. Cabanova, V.A. Tverskoy, A.R. Tameev, A.V. Vannikov, Ultraviolet-Visible-Near Infrared and Raman spectroelectrochemistry of poly(3, 4-ethylenedioxythiophene) complexes with sulfonated polyelectrolytes. The role of inter- and intra-molecular interactions in polyelectrolyte, Electrochimica Acta, 222 (2016) 409–420.

- 579. Avramov, I.** Role of surface in apparent viscosity of glasses. "Physical Review E - Statistical, Nonlinear, and Soft Matter Physics?", 89, 3, American Physical Society, 2014, ISSN:15393755, DOI:10.1103/PhysRevE.89.032301

Цитирани се в:

- 1870.** R.R. Petersen J. Königa, Y. Yue, Journal of Non-Crystalline Solids (2016)

- 580. Goranova, D., Avdeev, G., Rashkov, R.** Electrodeposition and characterization of Ni-Cu alloys. *Surface and Coatings Technology*, 240, 2014, ISSN:2578972, DOI:10.1016/j.surfcoat.2013.12.014, 204-210

Цумура се в:

- 1871.** Induction heating to trigger the nickel surface modification by in situ generated 4-carboxybenzene diazonium
- 1872.** Effect of acidity, basicity and ZrO<sub>2</sub> phases of Cu-Ni/ZrO<sub>2</sub> catalysts on the direct synthesis of diethyl carbonate from CO<sub>2</sub> and ethanol
- 1873.** Electrooxidation of glycerol on nickel and nickel alloy (Ni-Cu and Ni-Co) nanoparticles in alkaline media
- 1874.** A high performance sensor based on bimetallic NiCu nanoparticles for the simultaneous determination of five species of biomolecules
- 581. Camacho Corzo, D.M., Borissova, A., Hammond, R.B., Kashchiev, D., Roberts, K.J., Lewtas, K., More, I.** Nucleation mechanism and kinetics from the analysis of polythermal crystallisation data: Methyl stearate from kerosene solutions. *CrystEngComm*, 16, 6, Royal Society of Chemistry, 2014, ISSN:14668033, DOI:10.1039/c3ce41098f, 974-991

Цумура се в:

- 1875.** Ravenhill, Emma R., Paul M. Kirkman, and Patrick R. Unwin. "Microscopic Studies of Calcium Sulfate Crystallization and Transformation at Aqueous–Organic Interfaces." *Crystal Growth & Design* 16.10 (2016): 5887-5895.
- 1876.** Turner, T. D., et al. "The influence of solution environment on the nucleation kinetics and crystallisability of para-aminobenzoic acid." *Physical Chemistry Chemical Physics* 18.39 (2016): 27507-27520.
- 1877.** Shiau, Lie-Ding, and Hsu-Pei Wang. "Simultaneous determination of interfacial energy and growth activation energy from induction time measurements." *Journal of Crystal Growth* 442 (2016): 47-51.
- 1878.** Wang, Liping, et al. "Solubility and metastable zone width of aqueous sodium dichromate dihydrate solutions in the presence of sodium chromate additive." *Journal of Crystal Growth* 454 (2016): 105-110.
- 1879.** Shiau, Lie-Ding. "Comparison of the interfacial energy and pre-exponential factor calculated from the induction time and metastable zone width data based on classical nucleation theory." *Journal of Crystal Growth* 450 (2016): 50-55.
- 1880.** Ma, Cai Y., Jing J. Liu, and Xue Z. Wang. "Measurement, modelling, and closed-loop control of crystal shape distribution: Literature review and future perspectives." *Particuology* 26 (2016): 1-18.
- 582. Gyurova, A.Y., Stoyanov, S.V., Mileva, E.** Interaction of four-antennary oligoglycines and lipopolysaccharides in aqueous media. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2014.01.079, 130-136. ISI IF:2.725

Цумура се в:

- 1881.** Fibras multifuncionales de nanotubos de carbono: caracterización químico-física y aplicaciones, JA Benedico Lozano, PhD Thesis

- 583.** Radoeva, M., **Monev, M.**, Ivanov, I.T., Georgiev, G.S., Radoev, B.. Adhesion improvement of electroless copper coatings by polymer additives. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2014.02.003, 441-447

Цумура се в:

- 1882.** Afripin, M.A.A., Fadil, N.A., Hamid, M.F.A., (...), Razak, B.B.A., Tamin, M.N. Rate-dependent responses of electroless plated and sputtered copper layer during nanoindentation loading Proceedings of the IEEE/CPMT International Electronics Manufacturing Technology (IEMT) Symposium, November 2016, 7761957

- 584.** **Georgieva, J., Valova, E.**, Mintsouli, I., Sotiropoulos, S., **Armyanov, S.**, Kakaroglou, A., Hubin, A., Steenhaut, O., Dille, J.. Carbon-supported Pt(Cu) electrocatalysts for methanol oxidation prepared by Cu electroless deposition and its galvanic replacement by Pt. *Journal of Applied Electrochemistry*, 44, 2, 2014, ISSN:0021891X, DOI:10.1007/s10800-013-0618-2, 215-224

Цумура се в:

- 1883.** R. Li, Z. Ma, F. Zhang, H. Meng, M. Wang, X.-Q. Bao, B. Tang, X. Wanga, Facile Cu<sub>3</sub>P-C hybrid supported strategy to improve Pt nanoparticle electrocatalytic performance toward methanol, ethanol, glycol and formic acid electro-oxidation, *Electrochim. Acta*, 220, 193–204 (2016)

- 1884.** H. Rostami, A. A. Rostami, A. Omrani, Poly (p-phenylenediamine/TiO<sub>2</sub>) nanocomposite promoted Pt/C catalyst for methanol and ethanol electrooxidation in alkaline medium *Electrochim. Acta*, 191, 536-547 (2016)

- 1885.** F. Lei, Z. Li, L. Zhang, Y. Wang, S. Xu, S. Lin, Facile synthesis of Pt-Cu (Ni, Co)/GNs-CD and their enhanced electro-catalytic activity for methanol oxidation, *J. Electrochem. Soc.*, 163, F913-F918 (2016)

- 585.** Raghuwanshi, V.S., Harizanova, R., Haas, S., **Tatchev, D.**, Gugov, I., Dewhurst, C., R?ssel, C., Hoell, A.. Magnetic nanocrystals embedded in silicate glasses studied by polarized SANS. *Journal of Non-Crystalline Solids*, 385, 2014, ISSN:223093, DOI:10.1016/j.jnoncrysol.2013.10.007, 24-29

Цумура се в:

- 1886.** Volpi, V., Montesso, M., Ribeiro, S.J.L., Viali, W.R., Magon, C.J., Silva, I.D.A., Donoso, J.P., Nalin, M., "Optical and structural properties of Mn<sup>2+</sup> doped PbGeO<sub>3</sub>-SbPO<sub>4</sub> glasses and glass-ceramics", *Journal of Non-Crystalline Solids*, 431, (2016) 135-139

- 586.** Pensini, E., Harbottle, D., Yang, F., **Tchoukov, P.**, Li, Z., Kailey, I., Behles, J., Masliyah, J., Xu, Z.. Demulsification mechanism of asphaltene-stabilized water-in-oil emulsions by a polymeric ethylene oxide-propylene oxide demulsifier. *Energy and Fuels*, 28, 11, American Chemical Society, 2014, ISSN:8870624, DOI:10.1021/ef501387k, 6760-6771

Цумура се в:

- 1887.** Chong, Jeng Yi, Marcio B. Machado, Sujit Bhattacharya, Samson Ng, and Suzanne Marie Kresta. "Reduce overdosing effects in chemical demulsifier applications by increasing mixing energy and decreasing injection concentration." *Energy & Fuels*, Volume 30, Issue 6, 16 June 2016, Pages 5183-5189(2016)

- 1888.** Pradilla, Diego, Sébastien Simon, Johan Sjoblom, Joseph Samaniuk, Marta Skrzypiec, and Jan Vermant. "Sorption and Interfacial Rheology Study of Model Asphaltene Compounds." *Langmuir* 32, no. 12 (2016): 2900-2911

- 1889.** Pradilla, Diego, Sreedhar Subramanian, Sébastien Simon, Johan Sjoblom, Isabelle Beurroies,

and Renaud Denoyel. "Microcalorimetry Study of the Adsorption of Asphaltenes and Asphaltene Model Compounds at the Liquid–Solid Surface." *Langmuir* 32, no. 29 (2016): 7294-7305

1890. Ma, Shenghua, Yinan Wang, Xuejing Wang, Qingchuan Li, Shanshan Tong, and Xiaojun Han. "Bifunctional Demulsifier of ODTS Modified Magnetite/Reduced Graphene Oxide Nanocomposites for Oil–water Separation." *ChemistrySelect* 1, no. 15 (2016): 4742-4746
1891. Xu, Peipei, Zengzi Wang, Zhenghe Xu, Jingcheng Hao, and Dejun Sun. "Highly effective emulsification/demulsification with a CO<sub>2</sub>-switchable superamphiphile." *Journal of Colloid and Interface Science* 480 (2016): 198-204
1892. Fang, Shenwen, Ting Chen, Rong Wang, Yan Xiong, Bin Chen, and Ming Duan. "Assembly of Graphene Oxide at the Crude Oil/Water Interface: A New Approach to Efficient Demulsification." *Energy & Fuels* 30, no. 4 (2016): 3355-3364
1893. Hao, Li, Bin Jiang, Luhong Zhang, Huawei Yang, Yongli Sun, Baoyu Wang, and Na Yang. "Efficient Demulsification of Diesel-in-Water Emulsions by Different Structural Dendrimer-Based Demulsifiers." *Industrial & Engineering Chemistry Research* 55, no. 6 (2016): 1748-1759
1894. Xu, Bin, Xiaoguang Zhou, and Chen Wang. "Synergistic effect of demulsifiers with different structures for crude oil emulsions." *Petroleum Science and Technology* 34, no. 5 (2016): 485-490
1895. Liang, Chen. "Design and Application of Responsive Composite Particles for Multiphase Separations of Bitumen Emulsions in Bituminous (Oil) Sands Extraction." PhD diss., University of Alberta, 2016
1896. Pradilla, Diego. "Asphaltenes and Asphaltene model compounds: Adsorption, Desorption and Interfacial Rheology." Doctoral thesis at NTNU;2016:71
1897. Kuznicki, Natalie Paige. "Probing Deformable Oil-Water Interfaces by Atomic Force Microscopy and Cascade Partial Coalescence Measurements." PhD diss., University of Alberta, 2016
587. Zidek, J., Jancar, J., **Milchev, A.**, Vilgis, TA.. Mechanical Response of Hybrid Cross-Linked Networks to Uniaxial Deformation: A Molecular Dynamics Model. *Macromolecules*, 47, 24, 2014, 8795-8807. ISI IF:5.8

Цумура се в:

1898. Laureckiene, G., Milašius, R. Influence of the straining level on the long-lasting relaxation behaviour of polyester yarns (2016) *Fibres and Textiles in Eastern Europe*, 24 (1), pp. 73-77. 10.5604/12303666.1183199
1899. Feng, W., Zhou, W., Dai, Z., Yasin, A., Yang, H. Tough polypseudorotaxane supramolecular hydrogels with dual-responsive shape memory properties (2016) *Journal of Materials Chemistry B*, 4 (11), pp. 1924-1931. 10.1039/c5tb02737c
1900. Wang, Y., Gao, Z., Guan, S., Ye, T., Yu, Z., Gao, G.H. Trifunctional cross-linker trimethylol melamine enhancing adhesive force of PVA hydrogels (2016) *Journal of Applied Polymer Science*, 133 (31), art. no. 43774, 10.1002/app.43774
588. Mihalev, M., Hardalov, C., Christov, C., **Michailov, M.**, **Ranguelov, B.**, Leiste, H.. Structural and adhesional properties of thin MoO<sub>3</sub> films prepared by laser coating. *Journal of Physics: Conference Series*, 514, 1, Institute of Physics Publishing, 2014, ISSN:17426588, DOI:10.1088/1742-6596/514/1/012022

Цумура се в:

**1901.** M. Balaji, J. Chandrasekaran, M. Raja, S. Rajesh, "Structural, optical and electrical properties of Ru doped MoO<sub>3</sub> thin films and its P–N diode application by JNS pyrolysis technique" Journal of Materials Science: Materials in Electronics; Springer, 2016

**589. Kashchiev, D.** Kinetics of protein fibrillation controlled by fibril elongation. "Proteins: Structure, Function and Bioinformatics?", 82, 9, John Wiley and Sons Inc., 2014, ISSN:8873585, DOI:10.1002/prot.24586, 2229-2239

Цумура се в:

**1902.** Hall, Damien, et al. "Protein aggregate turbidity: Simulation of turbidity profiles for mixed-aggregation reactions." Analytical biochemistry 498 (2016): 78-94.

**590.** Hervieu, Y.Y., **Markov, I.** Kinetics of second layer nucleation with permeable steps. Surface Science, 628, Elsevier, 2014, ISSN:396028, DOI:10.1016/j.susc.2014.05.016, 76-81

Цумура се в:

**1903.** Zhao, Renjie, James W. Evans, and Tiago J. Oliveira. "Permeability and kinetic coefficients for mesoscale BCF surface step dynamics: Discrete two-dimensional deposition-diffusion equation analysis." Physical Review B 93.16 (2016): 165411.

**1904.** Rogilo, D. I., et al. "2D Si island nucleation on the Si (111) surface at initial and late growth stages: On the role of step permeability in pyramidlike growth." Journal of Crystal Growth 457 (2016) 188–195.

**1905.** Sitnikov, S. V., A. V. Latyshev, and S. S. Kosolobov. "Atomic steps on an ultraflat Si (111) surface upon sublimation." Semiconductors 50.5 (2016): 596-600.

**591.** Sarabadani, J., **Milchev, A.**, De Virgiliis, A., Vilgis, T.A.. Molecular dynamic study of the structure and dynamics of polymer melt at solid surfaces. Soft Materials, 12, Taylor and Francis Inc., 2014, ISSN:1539445X, DOI:10.1080/1539445X.2014.957833, S56-S70

Цумура се в:

**1906.** Tan, A.W., Torkelson, J.M. Poly(methyl methacrylate) nanotubes in AAO templates: Designing nanotube thickness and characterizing the Tg-confinement effect by DSC (2016) Polymer (United Kingdom), 82, pp. 327-336 10.1016/j.polymer.2015.11.054

**592. Hodjaoglu G., Ivanov I.** Chemical, phase composition and morphology of copper cake as a second material for pure copper electroextraction. Conference Proceedings METAL'2014, Tanager Cz, 2014, ISBN:978-80-87294-54-3, 1259-1266

Цумура се в:

**1907.** Leaching and selective copper recovery from acidic leachates of Tr<sup>es</sup> Marias zinc plant (MG, Brazil) metallurgical purification residues

**593.** Kosior, D., Zawala, J., **Todorov, R., Exerowa, D.**, Malysa, K.. Bubble bouncing and stability of liquid films formed under dynamic and static conditions from n-octanol solutions. Colloids and Surfaces A, 460, 2014, 391-400. ISI IF:2.76

Цумура се в:

**1908.** Manica R., Klaseboer E., Chan D.Y. „The impact and bounce of air bubbles at a flat fluid interface”, Soft Matter 12 (2016) 3271-3282.

**1909.** Feng, Jie; Muradoglu, Metin; Kim, Hyoungsoo; et al., Dynamics of a bubble bouncing at a



594. AlZahrani, A., Alhamed, Y., Petrov, L., **Armyanov, S., Valova, E., Georgieva, J.**, Dille, J.. Mechanical and Corrosion Behavior of Amorphous and Crystalline Electroless Ni-W-P Coatings. Journal of Solid State Electrochemistry, 18, 7, Springer, 2014, ISSN:ISSN 1432-8488, DOI:DOI 10.1007/s10008-014-2437-8, 1951-1961. ISI IF:2.327

Цумура ce в:

1910. Bangwei Zhang, Amorphous and Nano Alloys Electroless Depositions. Technology, Composition, Structure and Theory, Elsevier, ISBN: 978-0-12-802685-4

595. **P. Tchoukov**, F. Yang, Z. Xu, T. Dabros, J. Czarnecki, J. Sjöblom. Role of Asphaltenes in Stabilizing Thin Liquid Emulsion Films. Langmuir, 30, 2014, ISSN:0743-7463, 3024-3033. ISI IF:4.384

Цумура ce в:

1911. Yang, Fan. "Bitumen fractions responsible for stabilizing water in oil emulsions." PhD diss., University of Alberta, 2016

1912. Shi, Chen, Ling Zhang, Lei Xie, Xi Lu, Qingxia Liu, Cesar A. Mantilla, Frans GA van den Berg, and Hongbo Zeng. "Interaction Mechanism of Oil-in-Water Emulsions with Asphaltenes Determined using Droplet Probe AFM." Langmuir 32, no. 10 (2016): 2302-2310

1913. Tavakkoli, Mohammad, Andrew Chen, Chi-An Sung, Kelly M. Kidder, Je Jin Lee, Saeed M. Alhassan, and Francisco M. Vargas. "Effect of Emulsified Water on Asphaltene Instability in Crude Oils." Energy & Fuels Volume 30, Issue 5, 19 May 2016, Pages 3676-3686

1914. Zhang, Juan, Dan Tian, Meiqin Lin, Zihao Yang, and Zhaoxia Dong. "Effect of resins, waxes and asphaltenes on water-oil interfacial properties and emulsion stability." Colloids and Surfaces A: Physicochemical and Engineering Aspects 507 (2016): 1-6

1915. Wang, Dianlin, Meiqin Lin, Zhaoxia Dong, Lu Li, Shaoping Jin, Dingcheng Pan, and Zihao Yang. "Mechanism of High Stability of Water-in-Oil Emulsions at High Temperature." Energy & Fuels 30, no. 3 (2016): 1947-1957

1916. dos Santos, Salomé, Lily D. Poulikakos, and Manfred N. Partl. "Crystalline structures in tetracosane–asphaltene films." RSC Advances 6, no. 47 (2016): 41561-41567

1917. dos Santos, Salomé, Lily D. Poulikakos, and Manfred N. Partl. "Crystalline structures in tetracosane–asphaltene films." RSC Advances 6, no. 47 (2016): 41561-41567

1918. Liang, C., 2016. Design and Application of Responsive Composite Particles for Multiphase Separations of Bitumen Emulsions in Bituminous (Oil) Sands Extraction (Doctoral dissertation, University of Alberta).

1919. Kuznicki, Natalie Paige. "Probing Deformable Oil-Water Interfaces by Atomic Force Microscopy and Cascade Partial Coalescence Measurements." PhD diss., University of Alberta, 2016

596. Yang F., **Tchoukov P.**, Pensini E., Dabros T., Czarnecki J., Masliyah J., Xu Z.. Asphaltene sub-fractions responsible for stabilizing water-in-crude oil emulsions: Part I. Interfacial behaviors. Energy and Fuels, 28, 11, American Chemical Society, 2014, ISSN:0887-0624, 6897-6904. ISI IF:2.79

Цумура ce в:

1920. Dutta Majumdar, R., Kyle D. Bake, Yeasmin Ratna, Andrew E. Pomerantz, Oliver C. Mullins, Michael Gerken, and Paul Hazendonk. "Single-Core PAHs in Petroleum-and Coal-Derived Asphaltenes: Size and Distribution from Solid-State NMR Spectroscopy and Optical Absorption

Measurements." *Energy & Fuels* 30, no. 9 (2016): 6892-6906

- 1921.** Wang, Dianlin, Meiqin Lin, Zhaoxia Dong, Lu Li, Shaoping Jin, Dingcheng Pan, and Zihao Yang. "Mechanism of High Stability of Water-in-Oil Emulsions at High Temperature." *Energy & Fuels* 30, no. 3 (2016): 1947-1957
- 1922.** Evdokimov, Igor N., Aleksey A. Fesan, Aleksey M. Kronin, and Aleksandr P. Losev. "Common Features of "RAG" Layers in Water-in-Crude Oil Emulsions with Different Stability. Possible Presence of Spontaneous Emulsification." *Journal of Dispersion Science and Technology* 37, no. 11 (2016): 1535-1543
- 1923.** Kuznicki, Natalie Paige. "Probing Deformable Oil-Water Interfaces by Atomic Force Microscopy and Cascade Partial Coalescence Measurements." PhD diss., University of Alberta, 2016
- 1924.** Estudio Teórico-Experimental de Estabilización de Emulsiones Salmuera en Aceite Crudo por Asfaltenos José-Manuel Martínez-Magadán<sup>1, 2</sup>, Enrique Soto-Castruita<sup>1, 2</sup>, Rodolfo Cisneros-Dévora<sup>1, 2</sup>, Ana-Graciela Servín-Nájera<sup>1</sup>, Luis-Silvestre Zamudio-Rivera<sup>1</sup>, Ricardo Cerón-Camacho<sup>1, 2</sup>, Jorge-Francisco Ramírez-Pérez<sup>1</sup> <sup>1</sup>Instituto Mexicano del Petróleo, Eje Central Lázaro Cárdenas, Norte 152, Col. San Bartolo Atepehuacán, CDMX, 07730; México; <sup>2</sup>CONACYT-Instituto Mexicano del Petróleo, México
- 1925.** Langevin, D., Argillier, J.-F., Interfacial behavior of asphaltenes (Review) *Advances in Colloid and Interface Science*, Volume 233, 1 July 2016, Pages 83-93
- 597.** Dimitrov, O., Nesheva, D., Blaskov, V., Stambolova, I., Vassilev, S., Levi, Z., **Tonchev, V.** Gas sensitive ZnO thin films with desired (002) or (100) orientation obtained by ultrasonic spray pyrolysis. *Materials Chemistry and Physics*, 148, 3, Elsevier, 2014, ISSN:ISSN: 0254-0584, DOI:10.1016/j.matchemphys.2014.08.039, 712-719. ISI IF:2.259

*Цумупа се в:*

- 1926.** Dan Li, Yiqun Zhang, Deye Liu, Shiting Yao, Fengmin Liu, Biao Wang, Peng Sun, Yuan Gao, Xiaohong Chuai and Geyu Lu, Hierarchical core/shell ZnO/NiO nanoheterojunctions synthesized by ultrasonic spray pyrolysis and their gas-sensing performance, *CrystEngComm* 18, (2016) 8101-8107.
- 1927.** D. Berger, A.P. de Moura, L.H. Oliveira, W.B. Bastos, F.A. La Porta, L.V. Rosa, M.S. Li, S.M. Tebcherani, E. Longo, J.A. Varela, Improved photoluminescence emission and gas sensor properties of ZnO thin films, *Ceramics International*, Volume 42, Issue 12, September 2016, Pages 13555–13561.
- 598.** **Gutzow, I, Pascova, R., Jordanov, N., Gutzov, S., Penkov, I., Markovska, I., Schmelzer, J., Ludwig, F.-P.** Crystalline and Amorphous Modifications of Silica, in: "Glass, Selected Properties and Crystallization" Ed. J.W.P. Schmelzer. de Gruyter, 2014, ISBN:978-3-11-029838-3, 59, 45-104

*Цумупа се в:*

- 1928.** Karolina Adrjanowicz, Kajetan Koperwas, Magdalena Tarnacka, Katarzyna Grzybowska, Kristine Niss, Jürgen Pionteck, and Marian Paluch, *Cryst.Growth Des.* 16 (2016) 6263 – 6268
- 1929.** Karolina Adrjanowicz, Kajetan Koperwas, Grzegorz Szklarz, Magdalena Tarnacka, and Marian Paluch, *Cryst. Growth Des.* 16 (2016) 7000 – 7010
- 1930.** Astrid Hauptmann, Karl F. Handle, Philipp Baloh, Hinrich Grothe, and Thomas Loerting, *J. Chem. Phys.* 145, 211923 (2016)
- 1931.** Kajetan Koperwas, Karolina Adrjanowicz, Zaneta Wojnarowska, Agnieszka Jedrzejowska, Justyna Knapik & Marian Paluch, *Scientific RepoRts* 6 (2016) 36934

599. Kosior, D., Zawala, J., **Todorov, R., Exerowa, D.**, Malysa, K.. Bubble bouncing and stability of liquid films formed under dynamic and static conditions from n-octanol solutions. 460, Elsevier B.V., 2014, ISSN:0927-7757, DOI:10.1016/j.colsurfa.2013.11.022, 391-400. ISI IF:2.752

Цумура се в:

1932. Manica R., Klaseboer E., Chan D.Y. „The impact and bounce of air bubbles at a flat fluid interface” *Soft Matter* 12: 3271-3282, 2016
1933. Feng J., Muradoglu M., Kim H., Ault J.T., Stone H.A. “Dynamics of a bubble bouncing at a liquid/liquid/gas interface” *J Fluid Mech* 807: 324-352, 2016
600. Won, J.Y., Kragel, J., Makievski, A.V., Javadi, A., **Gochev, G.**, Loglio, G., Pandolfini, P., Leser, M.E., Gehin-Delval, C., Miller, R.. Drop and bubble micro manipulator (DBMM)-A unique tool for mimicking processes in foams and emulsions. *Colloids and Surfaces A*, 441, 2014, 807-814. ISI IF:2.76

Цумура се в:

1934. Šećerov Sokolović, R.M., Sokolović, D.S., Govedarica, D.D., Liquid-liquid separation using steady-state bed coalescer (Separacija tečno-tečno primenom koalescentnog filtera u stacionarnom stanju), *Hemijska Industrija* 70 (4) (2016) 367-381.

---

2015

---

601. **Armyanov, S.**, Stankova, N.E., Atanasov, P.A., **Valova, E.**, Kolev, K., **Georgieva, J.**, Steenhaut, O., Baert, K., Hubin, A.. XPS and  $\mu$ -Raman study of nanosecond-laser processing of poly(dimethylsiloxane) (PDMS). "Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms?", 360, Elsevier, 2015, ISSN:0168583X, DOI:10.1016/j.nimb.2015.07.134, 30-35. SJR:0.601, ISI IF:1.124

Цумура се в:

1935. Z. Cheng, B. Li, J. Huang, T. Chen, Y. Liu, X. Wang, X. Liu, Covalent modification of Aramid fibers' surface via direct fluorination to enhance composite composite interfacial properties, *Materials & Design*, 106, 216-225 (2016).
602. **Dimitrov, I.L., Hodzhaoglu, F.V., Koleva, D.P.** Probabilistic approach to lysozyme crystal nucleation kinetics. *Journal of Biological Physics*, 41, 4, Kluwer Academic Publishers, 2015, ISSN:920606, DOI:10.1007/s10867-015-9381-4, 327-338. SJR:0.615, ISI IF:1.286

Цумура се в:

1936. Kashchiev, D., Modeling the Effect of Monomer Conformational Change on the Early Stage of Protein Self-Assembly into Fibrils, *J. Phys. Chem. B*, DOI: 10.1021/acs.jpcc.6b09302
603. Bozzini, B., Amati, M., Gregoratti, L., Lacitignola, D., Sgura, I., **Krastev, I., Dobrovolska, T.** "Intermetallics as key to spiral formation in In-Co electrodeposition. A study based on photoelectron microspectroscopy, mathematical modelling and numerical approximations". *Journal of Physics D: Applied Physics*, 48, 39, Institute of Physics Publishing, 2015, ISSN:223727, DOI:10.1088/0022-3727/48/39/395502, ISI IF:1.636

Цумура се в:

1937. Irati Golvano-Escobal, Juan Carlos Gonzalez-Rosillo, Neus Domingo, Xavi Illa, José Francisco López-Barberá, Jordina Fornell, Pau Solsona, Lucia Aballe, Michael Foerster, Santiago

Suriñach, Maria Dolors Baró, Teresa Puig, Salvador Pané, Josep Nogués, Eva Pellicer & Jordi Sort, Spontaneous formation of spirallike patterns with distinct periodic physical properties by confined electrodeposition of Co-In disks, Scientific RepoRts | 6:30398 | DOI: 10.1038/srep30398 (open access).

- 604. Ilieva, M., Tsakova, V.** Temperature-treated polyaniline layers as support for Pd catalysts: electrooxidation of glycerol in alkaline medium. *Journal of Solid State Electrochemistry*, 19, 9, Springer New York LLC, 2015, ISSN:14328488, DOI:10.1007/s10008-015-2880-1, 2811-2818

Цумура ce в:

- 1938.** C.A. Ottoni, C.E.D. Ramos, S. Gomes da Silva, E.V. Spinacé, R.F. Brambilla de Souza, A.O. Neto, “Glycerol and Methanol Electro-oxidation at Pt/C-ITO under Alkaline Condition” *Electroanalysis* Volume 28, Issue 10, 1 October 2016, Pages 2552-2558 DOI: 10.1002/elan.201600090

- 605. Dukhin, S.S., Kovalchuk, V.I., Gochev, G.G., Lotfi, M., Krzan, M., Malysa, K., Miller, R.** Dynamics of Rear Stagnant Cap formation at the surface of spherical bubbles rising in surfactant solutions at large Reynolds numbers under conditions of small Marangoni number and slow sorption kinetics. *Advances in Colloid and Interface Science*, 222, Elsevier, 2015, ISSN:18686, DOI:10.1016/j.cis.2014.10.002, 260-274

Цумура ce в:

- 1939.** Dukhin S.S., Lotfi M., Kovalchuk V.I., Bastani, D., Miller, R., Dynamics of rear stagnant cap formation at the surface of rising bubbles in surfactant solutions at large Reynolds and Marangoni numbers and for slow sorption kinetics, *Colloids and Surfaces A* 492 (2016) 127-137.

- 606. Nanev, C.N., Tonchev, V.D.** Sigmoid kinetics of protein crystal nucleation. *Journal of Crystal Growth*, 427, Elsevier, 2015, ISSN:220248, DOI:10.1016/j.jcrysgro.2015.07.007, 48-53

Цумура ce в:

- 1940.** Andrea Marongiu, Nsombo Nlandi, Yao Rong, Dirk Uwe Sauer, On-board capacity estimation of lithium iron phosphate batteries by means of half-cell curves, *Journal of Power Sources* 324, (2016) 158-169.

- 607. Georgieva, J., Valova, E., Mintsouli, I., Sotiropoulos, S., Tatchev, D., Armyanov, S., Hubin, A., Dille, J., Hoell, A., Raghuvanshi, V., Karanasios, N., Malet, L.** Pt(Ni) electrocatalysts for methanol oxidation prepared by galvanic replacement on TiO<sub>2</sub> and TiO<sub>2</sub>-C powder supports. *Journal of Electroanalytical Chemistry*, 754, Elsevier, 2015, ISSN:15726657, DOI:10.1016/j.jelechem.2015.07.001, 65-74. SJR:0.776, ISI IF:2.729

Цумура ce в:

- 1941.** H. Rostami, A. A. Rostami, A. Omrani, Poly (p-phenyldiamine/TiO<sub>2</sub>) nanocomposite promoted Pt/C catalyst for methanol and ethanol electrooxidation in alkaline medium *Electrochim. Acta*, 191, 536-547 (2016)

- 1942.** Z. Wang, W.u Xie, F. Zhang, J. Xia, S. Gong, Y. Xia, Facile synthesis of PtPdPt nanocatalysts for methanol oxidation in alkaline solution, *Electrochimica Acta*, 192, 400-406 (2016)

- 608. Dan, A., Gochev, G., Miller, R.** Tensiometry and dilational rheology of mixed  $\beta$ -lactoglobulin/ionic surfactant adsorption layers at water/air and water/hexane interfaces. *Journal of Colloid and Interface Science*, 449, Academic Press Inc., 2015, ISSN:219797, DOI:10.1016/j.jcis.2015.01.035, 383-391. ISI IF:7.776

Цумура се в:

- 1943.** Kezwoń, A., Wojciechowski, K., Collagen-surfactant mixtures at fluid/fluid interfaces, *Colloids and Surfaces A* 509 (2016) 390-400.
- 1944.** 3. Guzmán, E., Llamas, S., Maestro, A., (...), Ortega, F., Rubio, R.G., Polymer-surfactant systems in bulk and at fluid interfaces, *Adv. Colloid and Interface Sci.* 233 (2016) 38-64.
- 1945.** Manga, M.S., Hunter, T.N., Cayre, O.J., (...), Williams, R.A., Biggs, S.R., Measurements of Submicron Particle Adsorption and Particle Film Elasticity at Oil-Water Interfaces, *Langmuir* 32 (17) (2016) 4125-4133.

- 609.** **Zhivkov, A.M.**, Hristov, R.P.. Adsorption of carboxymethyl cellulose on alumina particles. *Journal of colloid and interface science*, 447, Elsevier, 2015, ISSN:0021-9797, DOI:10.1016/j.jcis.2014.11.051, 159-166. SJR:1.095, ISI IF:3.368

Цумура се в:

- 1946.** Xu S., Gong X., Zhuo X., Liu C., Wang Y., Preparation and properties of water dispersible ramie stalk cake, *Fuhe Cailiao Xuebao/Acta Materiae Compositae Sinica*, 33 (2016) 1803-1811.
- 1947.** Klemeshev S.A., Petrov M.P., Rolich V.I., Trusov A.A., Voitylov, A.V., Voitylov, V.V., Static, dynamic and electric light scattering by aqueous colloids of diamond, *Diamond and Related Materials*, 69 (2016) 177-182.
- 1948.** Petrov M.P., Shilov V.N., Trusov A.A., Voitylov A.V., Voitylov V.V., Electro-optic research of polarizability dispersion in aqueous polydisperse suspensions of nanodiamonds, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 506 (2016) 40-49.

- 610.** Hristova, S.H., **Zhivkov, A.M.**. Adsorption of cytochrome c on montmorillonite nanoplates: Protein concentration dependence. *Journal of Colloid and Interface Science*, 446, Elsevier, 2015, ISSN:0021-9797, DOI:10.1016/j.jcis.2015.01.039, 252-262. SJR:1.095, ISI IF:3.368

Цумура се в:

- 1949.** Klemeshev S.A., Petrov M.P., Rolich V.I., Trusov A.A., Voitylov A.V., Voitylov, V.V., Static, dynamic and electric light scattering by aqueous colloids of diamond,, *Diamond and Related Materials*, 69 (2016) 177-182.
- 1950.** Petrov M.P., Shilov V.N., Trusov A.A., Voitylov A.V., Voitylov V.V., Electro-optic research of polarizability dispersion in aqueous polydisperse suspensions of nanodiamonds, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 506 (2016) 40-49.

- 611.** Ljatifi, E., Kamusheva, A., Grozdanov, A., Paunovi?, P., **Karamanov, A.**. Optimal thermal cycle for production of glass-ceramic based on wastes from ferronickel manufacture. *Ceramics International*, Elsevier Ltd, 2015, ISSN:2728842, DOI:10.1016/j.ceramint.2015.05.098

Цумура се в:

- 1951.** Kritikaki, Anna, Dimitra Zaharaki, and Kostas Komnitsas. "Valorization of Industrial Wastes for the Production of Glass–Ceramics." *Waste and Biomass Valorization*, 2016 1-14. DOI 10.1007/s12649-016-9480-x

- 612.** **Gochev, G.**. Thin liquid films stabilized by polymers and polymer/surfactant mixtures. *Current Opinion in Colloid and Interface Science*, 20, 2, Elsevier Ltd, 2015, ISSN:13590294, DOI:10.1016/j.cocis.2015.03.003, 115-123

Цумура се в:

1952. Li, Y., Chai, J.-L., Dilational viscoelasticity of imidazole-Based surface active ionic liquids at the air/water interface, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica* 32 (5) (2016) 1227-1235.

613. Karanasios, N., **Georgieva, J., Valova, E., Armyanov, S.,** Litsardakis, G., Sotiropoulos, S.. Photoelectrocatalytic oxidation of organics under visible light illumination: A short review. *Current Organic Chemistry*, 19, 6, Bentham Science Publishers B.V., 2015, ISSN:13852728, 512-520. ISI IF:2.157

Цумура ce в:

1953. S. Sfaelou, P. Lianos, Photoactivated Fuel Cells (PhotoFuelCells). An alternative source of renewable energy with environmental benefits, *AIMS Materials Science*, 3 (1) 270-288 (2016).

614. **Michailov, M., Kashchiev, D.** Monatomic metal nanowires: Rupture kinetics and mean lifetime. *Physica E: Low-Dimensional Systems and Nanostructures*, 70, Elsevier, 2015, ISSN:13869477, DOI:10.1016/j.physe.2015.02.018, 21-27. ISI IF:2

Цумура ce в:

1954. Michailov, Michail, et al. "Thermal stability and spontaneous breakdown of free-standing metal nanowires." *Journal of Crystal Growth* 457 (2016) 92–97

615. Raghuvanshi, V.S., Harizanova, R., **Tatchev, D.,** Hoell, A., R?ssel, C.. Structural analysis of Fe-Mn-O nanoparticles in glass ceramics by small angle scattering. *Journal of Solid State Chemistry*, 222, Academic Press Inc., 2015, ISSN:224596, DOI:10.1016/j.jssc.2014.11.009, 103-110

Цумура ce в:

1955. Ivanova, O.S., Ivantsov, R.D., Edelman, I.S., Petrakovskaja, E.A., Velikanov, D.A., Zubavichus, Y.V., Zaikovskii, V.I., Stepanov, S.A., Identification of  $\epsilon$ -Fe<sub>2</sub>O<sub>3</sub> nano-phase in borate glasses doped with Fe and Gd, *Journal of Magnetism and Magnetic Materials*, 401, 880-889, 2016

616. Stankova, N.E., Atanasov, P.A., Nedyalkov, N.N., Stoyanchov, T.R., Kolev, K.N., **Valova, E.I., Georgieva, J.S., Armyanov, S.A.,** Amoroso, S., Wang, X., Bruzzese, R., Grochowska, K., ?liwi?ski, G., Baert, K., Hubin, A., Delplancke, M.P., Dille, J.. Fs- and ns-laser processing of polydimethylsiloxane (PDMS) elastomer: Comparative study. *Applied Surface Science*, 336, Elsevier, 2015, ISSN:1694332, DOI:10.1016/j.apsusc.2014.12.121, 321-328. SJR:0.913, ISI IF:2.711

Цумура ce в:

1956. K. Moraczewski, W. Mróz, B. Budner, R. Malinowski, M. Żenkiewicz, Laser Modification of Polylactide Surface Layer Prior Autocatalytic Metallization, *Surf. Coat. Technol.*, 304, 68-75 (2016)

1957. B. Zheng, W. Wang, G. Jiang, X. Mei, Fabrication of broadband antireflective black metal surfaces with ultra-light-trapping structures by picosecond laser texturing and chemical fluorination, *Applied Physics B*, 122, paper 180, 15 pages (2016)

1958. S. L. Marasso, P. Rivolo, R. Giardi, D. Mombello, A. Gigot, M. Serrapede, S. Benetto, A. Enrico, M. Cocuzza, E. Tresso, C. F. Pirri, A novel graphene based nanocomposite for application in 3D flexible micro-supercapacitors, *Materials Research Express*, 3, Article number 065001 13 p. (2016)

617. Egorysheva, A.V., Milenov, T.I., Ellert, O.G., **Avdeev, G.V.,** Rafailov, P.M., Efimov, N.N., Novotortsev, V.M.. Magnetic glass-ceramics containing multiferroic BiFeO<sub>3</sub> crystals. *Solid State Sciences*, 40, Elsevier Masson SAS, 2015, ISSN:12932558,

Цумура се в:

**1959.** Magneto-electric characteristics in (Mn, Cu) co-doped BiFeO<sub>3</sub> multiferroic nanoparticles Khalid, Ayesha; Atiq, Shahid; Ramay, Shahid M.; et al. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 27 Issue: 9 Pages: 8966-8972

- 618. Guergova, D., Stoyanova, E., Stoychev, D., Avramova, I., Stefanov, P.** Self-healing effect of ceria electrodeposited thin films on stainless steel in the aggressive 0.5 mol/L NaCl aqueous solution. Journal of Rare Earths, 33, 11, ELSEVIER, 2015, ISSN:1002-0721, DOI:10.1016/S1002-0721(14)60548-2, 1212-1227. SJR:0.538, ISI IF:1.261

Цумура се в:

**1960.** V.S. Protsenko, E.A. Vasil'eva, A.V. Tsurkan, A.A. Kityka, S.A. Korniy, F.I. Danilov, Fe/TiO<sub>2</sub> composite coatings modified by ceria layer: Electrochemical synthesis using environmentally friendly methanesulfonate electrolytes and application as photocatalysts for organic dyes degradation, Journal of Environmental Chemical Engineering, Volume 5, Issue 1, February 2017, Pages 136–146, <http://dx.doi.org/10.1016/j.jece.2016.11.034>

**1961.** Applied Surface Science Volume 390, 30 December 2016, Pages 623–632 A new strategy for improvement of the corrosion resistance of a green cerium conversion coating through thermal treatment procedure before and after application of epoxy coating Z. Mahidashtia, T. Shahrabia,, , B. Ramezanzadehb,, Received 17 July 2016, Revised 28 August 2016, Accepted 29 August 2016, Available online 31 August 2016 Show more Show less <http://dx.doi.org/10.1016/j.apsusc.2016.08.160>Get rights and content

- 619.** Ilieva, L., Pantaleo, G., Velinov, N., Tabakova, T., Petrova, P., Ivanov, I., **Avdeev, G.**, Paneva, D., Venezia, A.M.. NO reduction by CO over gold catalysts supported on Fe-loaded ceria. Applied Catalysis B: Environmental, 174-175, Elsevier, 2015, ISSN:09263373, DOI:10.1016/j.apcatb.2015.03.004, 176-184. SJR:2.088, ISI IF:6.639

Цумура се в:

**1962.** The influence of Mn-doped CeO<sub>2</sub> on the activity of CuO/CeO<sub>2</sub> in CO oxidation and NO plus CO model reaction Deng, Changshun; Huang, Qingqing; Zhu, Xiyang; et al. APPLIED SURFACE SCIENCE Volume: 389 Pages: 1033-1049

**1963.** Synergistic Effects of Au and FeO<sub>x</sub> Nanocomposites in Catalytic NO Reduction with CO Wang, Xianwei; Maeda, Nobutaka; Baiker, Alfons ACS CATALYSIS Volume: 6 Issue: 11 Pages: 7898-7906

- 620.** Shi C., Cui X., Zhang X., **Tchoukov P.**, Liu Q., Encinas N., Paven M., Geyer F., Vollmer D., Xu Z., Butt H.-J., Zeng H.. Interaction between air bubbles and superhydrophobic surfaces in aqueous solutions. 31, 26, Langmuir, 2015, DOI:10.1021, 7317-7327. ISI IF:4.457

Цумура се в:

**1964.** de Maleprade, Hélène, Christophe Clanet, and David Quéré. "Spreading of Bubbles after Contacting the Lower Side of an Aerophilic Slide Immersed in Water." Physical Review Letters 117, no. 9 (2016): 094501

**1965.** Yu, Cunming, Xuanbo Zhu, Moyuan Cao, Cunlong Yu, Kan Li, and Lei Jiang. "Superhydrophobic helix: controllable and directional bubble transport in an aqueous environment." Journal of Materials Chemistry A 4, no. 43 (2016): 16865-16870

**1966.** George, Jijo Easo, Vanessa RM Rodrigues, Deepak Mathur, Santhosh Chidangil, and Sajan D. page 191/197

George. "Self-cleaning superhydrophobic surfaces with underwater superaerophobicity." *Materials & Design* 100 (2016): 8-18

621. Yang F., Tchoukov P., Dettman H., Teklebrhan R., Liu L., Dabros T., Czarnecki J., Xu Z.. Asphaltene subfractions responsible for stabilizing water-in-crude oil emulsions. Part II: Molecular representation and molecular dynamics simulations. *Energy and Fuels*, 29, 8, American Chemical Society, 2015, ISSN:08870624, 4783-4794. ISI IF:2.079

Цумура се в:

1967. Jian, Cuiying, Hongbo Zeng, Qingxia Liu, and Tian Tang. "Probing the Adsorption of Polycyclic Aromatic Compounds onto Water Droplets Using Molecular Dynamics Simulations." *The Journal of Physical Chemistry C* 120, no. 26 (2016): 14170-14179
1968. Silva, Hugo Santos, Ana CR Sodero, Brice Bouyssiere, Hervé Carrier, Jean-Pierre Korb, Ahmad Alfara, Germain Vallverdu, Didier Bégué, and Isabelle Baraille. "Molecular Dynamics Study of Nanoaggregation in Asphaltene Mixtures: Effects of the N, O, and S Heteroatoms." *Energy & Fuels* 30, no. 7 (2016): 5656-5664
1969. Lv, Guochun, Fengfeng Gao, Guokui Liu, and Shiling Yuan. "The Properties of Asphaltene at the Oil-Water Interface: A Molecular Dynamics Simulation." *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2016), 515, 34-40
1970. Alcázar-Vara, Luis A., Luis S. Zamudio-Rivera, and Eduardo Buenrostro-González. "Effect of Asphaltenes and Resins on Asphaltene Aggregation Inhibition, Rheological Behaviour and Waterflood Oil-Recovery." *Journal of Dispersion Science and Technology* 37, no. 11 (2016): 1544-1554
1971. Kuznicki, Natalie Paige. "Probing Deformable Oil-Water Interfaces by Atomic Force Microscopy and Cascade Partial Coalescence Measurements." PhD diss., University of Alberta, 2016.
1972. Martínez-Magadán, José-Manuel, Enrique Soto-Castruita, Rodolfo Cisneros-Dévora, Ana-Graciela Servín-Nájera, Luis-Silvestre Zamudio-Rivera, Ricardo Cerón-Camacho, and Jorge-Francisco Ramírez-Pérez. "Estudio Teórico-Experimental de Estabilización de Emulsiones Salmuera en Aceite Crudo por Asfaltenos.", XV Reunion Mexicana de Fisicoquímica Teórica
1973. Jian, Cuiying, Mohammad Reza Poopari, Qingxia Liu, Nestor Zerpa, Hongbo Zeng, and Tian Tang. "Mechanistic Understanding of the Effect of Temperature and Salinity on the Water/Toluene Interfacial Tension." *Energy & Fuels* 30, no. 12 (2016): 10228-10235
1974. Ervik, Åsmund, Morten Olsen Lysgaard, Carmelo Herdes, Guadalupe Jiménez-Serratos, Erich A. Müller, Svend Tollak Munkejord, and Bernhard Müller. "A multiscale method for simulating fluid interfaces covered with large molecules such as asphaltenes." *Journal of Computational Physics* 327 (2016): 576-611
622. Egorov, SA, Hsu, HP, Milchev, A., Binder, K.. Semiflexible polymer brushes and the brush-mushroom crossover. *Soft matter*, 11, 13, 2015, DOI:10.1039/C4SM02862G, 2604-2616. ISI IF:4.029

Цумура се в:

1975. Larin, D.E., Lazutin, A.A., Govorun, E.N., Vasilevskaya, V.V. Self-Assembly into Strands in Amphiphilic Polymer Brushes (2016) *Langmuir*, 32 (27), pp. 7000-7008. 10.1021/acs.langmuir.6b01208
1976. Blin, T., Kakinen, A., Pilkington, E.H., Ivask, A., Ding, F., Quinn, J.F., Whittaker, M.R., Ke, P.C., Davis, T.P. Synthesis and in vitro properties of iron oxide nanoparticles grafted with brushed phosphorylcholine and polyethylene glycol (2016) *Polymer Chemistry*, 7 (10), pp. 1931-1944. 10.1039/c5py02024g



1977. Huang, Z., Lu, C., Dong, B., Xu, G., Ji, C., Zhao, K., Yan, L.-T. Chain stiffness regulates entropy-templated perfect mixing at single-nanoparticle level (2016) *Nanoscale*, 8 (2), pp. 1024-1032. 10.1039/c5nr06134b

623. Bi J., Yang F., Harbottle D., Pensini E., **Tchoukov P.**, Simon S., Sjöblom J., Dabros T., Czarnecki J., Liu Q., Xu Z.. Interfacial Layer Properties of a Polyaromatic Compound and its Role in Stabilizing Water-in-Oil Emulsions. 31, 38, *Langmuir*, 2015, ISSN:07437463, 10382-10391. ISI IF:4.457

*Цумупа се в:*

1978. Ervik, Åsmund, Morten Olsen Lysgaard, Carmelo Herdes, Guadalupe Jiménez-Serratos, Erich A. Müller, Svend Tollak Munkejord, and Bernhard Müller. "A multiscale method for simulating fluid interfaces covered with large molecules such as asphaltenes." *Journal of Computational Physics* 327 (2016): 576-611

1979. Jian, Cuiying, Hongbo Zeng, Qingxia Liu, and Tian Tang. "Probing the Adsorption of Polycyclic Aromatic Compounds onto Water Droplets Using Molecular Dynamics Simulations." *The Journal of Physical Chemistry C* 120, no. 26 (2016): 14170-14179

1980. Lv, Guochun, Fengfeng Gao, Guokui Liu, and Shiling Yuan. "The Properties of Asphaltene at the Oil-Water Interface: A Molecular Dynamics Simulation." *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2016), 515, 34–40

624. Platikanov, D., **Exerowa, D.** Chapter 6 in: "Fundamentals of Interface and Colloid Science". "Thin Liquid Films", 5, Ed. J. Lyklema, Elsevier, Academic Press, Amsterdam, 2015, ISBN:ISBN 0-12-460530-3

*Цумупа се в:*

1981. Zheng, Lichun; Malfliet, Annelies; Wollants, Patrick; et al., Effect of surfactant Te on the behavior of alumina inclusions at advancing solid-liquid interfaces of liquid steel *Acta Materialia* 120 (2016) 443-452.

625. **Kashchiev, D.** Protein polymerization into fibrils from the viewpoint of nucleation theory. *Biophys. J.*, 109, 2015, DOI:<http://dx.doi.org/10.1016/j.bpj.2015.10.010>, 2126-2136

*Цумупа се в:*

1982. Buell, Alexander K. "The Nucleation of Protein Aggregates-From Crystals to Amyloid Fibrils." *International Review of Cell and Molecular Biology* (2016), DOI: 10.1016/bs.ircmb.2016.08.014

1983. Zhao, Ran, et al. "Measurement of amyloid formation by turbidity assay—seeing through the cloud." *Biophysical Reviews* (2016): 1-27.

626. **Gochev, G.**, Retzlaff, I., **Exerowa, D.**, Miller, R.. Electrostatic stabilization of foam films from  $\beta$ -lactoglobulin solutions. *Adv. Colloid and Interface Sci.*, 222, Elsevier, 2015, 260-274. ISI IF:7.813

*Цумупа се в:*

1984. Dombrowski, J., Johler, F., Warncke, M., Kulozik, U., Correlation between bulk characteristics of aggregated  $\beta$ -lactoglobulin and its surface and foaming properties, *Food Hydrocolloids* 61 (2016) 318-328.

1985. Lech, F.J., Delahaije, R.J.B.M., Meinders, M.B.J., Gruppen, H., Wierenga, P.A., Identification of critical concentrations determining foam ability and stability of  $\beta$ -lactoglobulin, *Food Hydrocolloids* 57 (2016) 46-54.

1986. Dombrowski, J., Dechau, J., Kulozik, U., Multiscale approach to characterize bulk, surface and

foaming behavior of casein micelles as a function of alkanisation, Food Hydrocolloids 57 (2016) 92-102.

1987. Zhou, S., Change of electrostatic potential of mean force between two curved surfaces due to different salt composition, ion valence and size under certain ionic strength, J. of Physics and Chemistry of Solids 89 (2016) 53-61.

---

## 2016

---

627. Thieme K., Avramov I., Rüssel C.. The mechanism of deceleration of nucleation and crystal growth by the small addition of transition metals to lithium disilicate glasses.. Nature, 2016, ISSN:2045-2322, DOI:10.1038/srep25451, SJR:5.228

Цумура се в:

1988. P Jha, SS Danewalia, K Singh - Journal of Thermal Analysis and Calorimetry 1-10 (2016) doi:10.1007/s10973-016-6013-6
1989. Manjeet S. Dahiya, Satish Khasa, Arti Yadav, shima Hooda, J. Thermal Analysis and Calorimetry 06/2016; DOI:10.1007/s10973-016-5622-4

628. Atanasov, P.A., Stankova, N.E., Nedyalkov, N.N., Fukata, N., Hirsch, D., Rauschenbach, B., Amoroso, S., Wang, X., Kolev, K.N., Valova, E.I., Georgieva, J.S., Armyanov, S.A.. Fs-laser processing of medical grade polydimethylsiloxane (PDMS). Applied Surface Science, 374, Elsevier, 2016, ISSN:0169-4332, DOI:10.1016/j.apsusc.2015.11.175, 229-234. SJR:0.913, ISI IF:2.711

Цумура се в:

1990. K. Moraczewski, W. Mróz, B. Budner, R. Malinowski, M. Żenkiewicz, Laser Modification of Polylactide Surface Layer Prior Autocatalytic Metallization, Surf. Coat. Technol., 304, 68-75 (2016)
1991. A.Francis, R. Detsch, A.R. Boccaccini, Fabrication and Cytotoxicity Assessment of Novel Polysiloxane/Bioactive Glass Films for Biomedical Applications, Ceramics Internat., 42, 15442–15448 (2016)

629. Chiang, C.-H., Grauffel, C, Wu, LS, Kuo, PH, Doudeva, LG, Lim, C, Shen, CKJ, Yuan, HS. Structural analysis of disease-related TDP-43 D169G mutation: Linking enhanced stability and caspase cleavage efficiency to protein accumulation. Scientific Reports, 6, 2016, ISSN:2045-2322, SJR:2.073, ISI IF:5.228

Цумура се в:

1992. Intrinsic protein disorder could be overlooked in cocrystallization conditions: An SRCD case study Nemeth, E (Nemeth, Eszter) ; Balogh, RK (Balogh, Ria K.) ; Borsos, K (Borsos, Katalin) ; Czene, A (Czene, Aniko) ; Thulstrup, PW (Thulstrup, Peter W.) ; Gyurcsik, B (Gyurcsik, Bela)

630. Vassilev, Ts., Penkov, I., Tzvetkova, Ch., Pascova, R.. Glass transition temperatures and structures of multicomponent borate glasses: Influence of modifier cation field strengths. J.Non-Cryst.Solids, 438, Elsevier, 2016, ISSN:0022-3093, DOI:10.1016/j.jnoncrysol.2016.02.007, 1-6. ISI IF:1.766

Цумура се в:

1993. Othman, H., D. Valiev, and E. Polissadova. "Structural and mechanical properties of zinc aluminoborate glasses with different content of aluminum oxide." Journal of Materials Science: Materials in Electronics: 1-7.

631. Stankova, N.E., Atanasov P.A., Nikov Ru.G., Nedyalkov N.N., Stoyanchov T.R., Fukata N., K.N. Kolev, **Valova E.I., Georgieva J.S., Armyanov St.A.** Optical properties of polydimethylsiloxane (PDMS) during nanosecond laser processing. *Applied Surface Science*, 374, Elsevier, 2016, ISSN:ISSN: 0169-4332, DOI:10.1016/j.apsusc.2015.10.016, 96-103. ISI IF:3.15

Цумура ce в:

1994. S. Zhao, Y. Chen, B. P. Partlow, A. S. Golding, P. Tseng, J. Coburn, M. B. Applegate, J. E. Moreau, F.G. Omenetto, D. L. Kaplan, Bio-functionalized silk hydrogel microfluidic systems, *Biomaterials*, 93, 60-70 (2016)
1995. Mikael Planes, Jérémie Brand, Simon Lewandowski, Stéphanie Remaury, Stéphane Solé, Cédric Le Coz, Stéphane Carlotti, Gilles Sèbe, Improvement of the Thermal and Optical Performances of Protective Polydimethylsiloxane Space Coatings with Cellulose Nanocrystal Additives, *ACS Appl. Mater. Interfaces*, 8 (41), 28030–28039 (2016)
1996. K. Moraczewski, W. Mróz, B. Budner, R. Malinowski, M. Żenkiewicz, Laser Modification of Polylactide Surface Layer Prior Autocatalytic Metallization, *Surf. Coat. Technol.*, 304, 68-75 (2016)
632. Egorov, A, **Milchev**, Virnau, P, Binder, K.. SEMIFLEXIBLE POLYMERS UNDER GOOD SOLVENT CONDITIONS INTERACTING WITH REPULSIVE WALLS. *The Journal of Chemical Physics*, 144, 17, AIP, 2016, DOI:10.1063/1.4947254, ISI IF:2.894

Цумура ce в:

1997. Poier, P., Egorov, S.A., Likos, C.N., Blaak, R. Concentration-induced planar-to-homeotropic anchoring transition of stiff ring polymers on hard walls (2016) *Soft Matter*, 12 (38), pp. 7983-7994. 10.1039/c6sm01453d
633. Egorov, A, **Milchev, A**, Binder, Kurt. ANOMALOUS FLUCTUATIONS OF NEMATIC ORDER IN SOLUTIONS OF SEMIFLEXIBLE POLYMERS. *Physical Review Letters*, 116, 18, AIP, 2016, 187801. ISI IF:7.645

Цумура ce в:

1998. Zhang, W., Gomez, E.D., Milner, S.T. Using surface-induced ordering to probe the isotropic-to-nematic transition for semiflexible polymers (2016) *Soft Matter*, 12 (28), pp. 6141-6147. 10.1039/c6sm01258b
634. Ulaganathan, V., **Gochev, G.**, Gehin-Delval, C., Leser, M.E., Gunes, D.Z., Miller, R.. Effect of pH and electrolyte concentration on rising air bubbles in  $\beta$ -lactoglobulin solutions. *Colloids and Surfaces A*, 505, 2016, 165-170

Цумура ce в:

1999. Gomaa, A.I., Nsonzi, F., Sedman, J., Ismail, A.A., Enhanced Unfolding of Bovine  $\beta$ -Lactoglobulin Structure Using Microwave Treatment: a Multi-Spectroscopic Study, *Food Biophysics* 11 (4) (2016) 370-379.

---

2017

---

635. Czarnecki J, **Khristov K**, Masliyah J, **Panchev N**, Taylor SD, **Tchoukov P**. Application of Scheludko–Exerowa thin liquid film technique to studies of petroleum W/O emulsions. *Colloids and Surfaces A, Physicochem. Eng. Aspects*, Elsevier, 2017, DOI:http://dx.doi.org/10.1016/j.colsurfa.2016.04.040, ISI

Цитира се в:

- 2000.** Kailey, Ishpinder. "Properties and Performance of Newly Developed Demulsifiers in Oil Sands Froth Treatment." *Energy Fuels*, 2016, 30, pp 9233–9241, DOI: 10.1021/acs.energyfuels.6b01940

**Под печат****636. Gutzow I., Schmelzer J..** The vitreous stateЦитира се в:

- 2001.** Jasiurkowska-Delaporte, Małgorzata, et al. "Glass Transition Dynamics and Crystallization Kinetics in the Smectic Liquid Crystal 4-n-Butyloxybenzylidene-4'-n'-octylaniline (BBOA)." *The Journal of Physical Chemistry B* 120.47 (2016): 12160-12167.
- 2002.** Grzybowska, Katarzyna, Simone Capaccioli, and Marian Paluch. "Recent developments in the experimental investigations of relaxations in pharmaceuticals by dielectric techniques at ambient and elevated pressure." *Advanced drug delivery reviews* 100 (2016): 158-182.
- 2003.** Toda, Akihiko, René Androsch, and Christoph Schick. "Insights into polymer crystallization and melting from fast scanning chip calorimetry." *Polymer* 91 (2016): 239-263.
- 2004.** Fokin, Vladimir M., et al. "Crystal nucleation in glass-forming liquids: Variation of the size of the "structural units" with temperature." *Journal of Non-Crystalline Solids* 447 (2016): 35-44.
- 2005.** Habasaki, Junko, Carlos León, and K. L. Ngai. "Molecular Dynamics Simulation of Silicate Glasses." *Dynamics of Glassy, Crystalline and Liquid Ionic Conductors*. Springer International Publishing, 2017. 415-458.
- 2006.** Abyzov, Alexander S., et al. "The effect of elastic stresses on the thermodynamic barrier for crystal nucleation." *Journal of Non-Crystalline Solids* 432 (2016): 325-333.
- 2007.** Alegria, Angel, and Juan Colmenero. "Dielectric relaxation of polymers: segmental dynamics under structural constraints." *Soft Matter* 12.37 (2016): 7709-7725.
- 2008.** Koperwas, Kajetan, et al. "Glass-Forming Tendency of Molecular Liquids and the Strength of the Intermolecular Attractions." *Scientific Reports* 6 (2016).
- 2009.** Righetti, Maria Cristina, Elpidio Tombari, and G. P. Johari. "Endothermic features on heating of glasses show that the second glass to liquid transition of water was phenomenologically-mistaken." *Thermochimica Acta* 647 (2017): 101-110.
- 2010.** Rodrigues, Ana SMC, and Luís MNBF Santos. "Nanostructuring Effect on the Thermal Behavior of Ionic Liquids." *ChemPhysChem* 17.10 (2016): 1512-1517.
- 2011.** Schick, Christoph, and René Androsch. "New insights into polymer crystallization by fast scanning chip calorimetry." *Fast Scanning Calorimetry*. Springer International Publishing, 2016. 463-535.
- 2012.** Kaminska, E., et al. "Studying of crystal growth and overall crystallization of naproxen from binary mixtures." *European Journal of Pharmaceutics and Biopharmaceutics* (2016).
- 2013.** Adrjanowicz, Karolina, et al. "Changing the Tendency of Glass-Forming Liquid To Crystallize by Moving Along Different Isolines in the T–p Phase Diagram." *Crystal Growth & Design* 16.11 (2016): 6263-6268.

- 2014.** Righetti, Maria Cristina, Elpidio Tombari, and G. P. Johari. "Aging kinetics of levoglucosan orientational glass as a rate dispersion process and consequences for the heterogeneous dynamics view." *The Journal of Chemical Physics* 145.5 (2016): 054501.
- 2015.** Adrjanowicz, Karolina, et al. "Exploring the Crystallization Tendency of Glass-Forming Liquid Indomethacin in the T–p Plane by Finding Different Iso-Invariant Points." *Crystal Growth & Design* (2016).
- 2016.** Pérez-Castañeda, Tomás, Rafael J. Jiménez-Riobóo, and Miguel A. Ramos. "Do two-level systems and boson peak persist or vanish in hyperaged geological glasses of amber?" *Philosophical Magazine* 96.7-9 (2016): 774-787.
- 2017.** Karamanov, Alexander, et al. "Journal of Environmental Chemical Engineering." (2016).
- 2018.** Smirnov, Boris M. "Atmospheric Processes Involving Aerosols." *Microphysics of Atmospheric Phenomena*. Springer International Publishing, 2017. 159-188.
- 2019.** Karamanov, Alexander, et al. "Vitrification of hazardous Fe-Ni wastes into glass-ceramic with fine crystalline structure and elevated exploitation characteristics." *Journal of Environmental Chemical Engineering* 5.1 (2017): 432-441.
- 2020.** Martinková, Simona, et al. "Crystal growth in Se70Te30 thin films followed by SEM and in situ XRD." *Journal of Applied Physics* 120.14 (2016): 145301.
- 2021.** Berry, R. S., and B. M. Smirnov. "Interaction between phases in the liquid–gas system." *Journal of Experimental and Theoretical Physics* 123.1 (2016): 134-142.
- 2022.** Kurasov, Victor. "Theoretical Description of the Glass Preparation with the Necessary Optical Properties." *Advances in Optical Technologies 2016* (2016).
- 2023.** Málek, Jiří, Jaroslav Barták, and Jana Shánělová. "Spherulitic crystal growth velocity in selenium supercooled liquid." *Crystal Growth & Design* 16.10 (2016): 5811-5821.
- 2024.** Shu, Q. F., and Y. Liu. "Effects of basicity, MgO and MnO on mineralogical phases of CaO–FeO x–SiO2–P2O5 slag." *Ironmaking & Steelmaking* (2017): 1-8.
- 2025.** Sanditov, D. S. "On the nature of the liquid-to-glass transition equation." *Journal of Experimental and Theoretical Physics* 123.3 (2016): 429-442.
- 2026.** Cassar, Daniel R. "Crystallization driving force of supercooled oxide liquids." *International Journal of Applied Glass Science* 7.3 (2016): 262-269.
- 2027.** Russev, Krassimir, and Liljana Stojanova. "Crystallization Kinetics of Bulk Amorphous Metallic Alloys and Its Relation to the Forgoing Relaxation Processes." *Glassy Metals*. Springer Berlin Heidelberg, 2016. 189-205.
- 637. Milchev, A..** A NEW INSIGHT INTO THE ISOTROPIC–NEMATIC PHASE TRANSITION IN LYOTROPIC SOLUTIONS OF SEMIFLEXIBLE POLYMERS: DENSITY-FUNCTIONAL THEORY TESTED BY MOLECULAR DYNAMICS. *Soft Matter*, 12, RSC, DOI:10.1039/C6SM00778C, 4944. ISI IF:3.798

*Цумура це в:*

- 2028.** Costanzo, S., Scherz, L.F., Schweizer, T., Kröger, M., Floudas, G., Dieter Schlüter, A., Vlassopoulos, D. Rheology and Packing of Dendronized Polymers (2016) *Macromolecules*, 49 (18), pp. 7054-7068. 10.1021/acs.macromol.6b01311
- 2029.** Zhang, W., Gomez, E.D., Milner, S.T. Using surface-induced ordering to probe the isotropic-to-nematic transition for semiflexible polymers (2016) *Soft Matter*, 12 (28), pp. 6141-6147. 10.1039/c6sm01258b