

ЦИТАТИ НА
ПУБЛИКАЦИИ НА ИНСТИТУТ ПО ФИЗИКОХИМИЯ „АКАД. Р. КАИШЕВ”
2014 г.

(12)A. Scheludko, D. Exerowa, Instrument for interferometric measuring of the thickness of microscopic foam layers, Bulletin de l'Institut de Chimie Physique 7(1959)123-131.

1. Светослав Аначков, “Ефект от йонни мицели върху стратификацията на течни филми и растеж на дисковидни мицели”, Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.

(85)D. Exerowa, I. Ivanov, A. Scheludko, Independence of the thickness on the diameter of free equilibrium films, Доклады II конференция по проблеме "Исследования в области поверхностных сил" Наука, Москва(1964)158-163.

2. Стефан Стоянов, “Взаимодействие на липополизахариди и четириантенни олигоглицини във водна среда”, Дипломна работа за придобиване на ОС “магистър”, СУ „Св. Климент Охридски” 2014.

(104)N.A. Pangarov, Preferred orientations in electro-deposited metals, Journal of Electroanalytical Chemistry 9(1965)70-85.

3. Y.Y. Li, H.G. Liao, L. Rao, Y.X. Jiang, R. Huang, B.W. Zhang, C.L. He, N. Tian, S.G. Sun, Shape evolution of platinum nanocrystals by electrochemistry, *Electrochim. Acta* 140, 2014, 345-351.
4. D. Desai, X. Wei, D.A. Steingart, S. Banerjee, Electrodeposition of preferentially oriented zinc for flow-assisted alkaline batteries, *J Power Sources* 256, 2014, 145-152.
5. M. Eslami, H. Saghafian, F. Golestani-Fard, A. Robin, Effect of electrodeposition conditions on the properties of Cu-Si 3N4 composite coatings, *Appl. Surf. Sci.* 300, 2014, 129-140.
6. P. Ming, W. Lv, Y. Li, J. Shang, J. Wang, Electrodepositing nickel under electrolyte. Reduced-pressure boiling condition, *Electrochim Acta* 120, 2014, 6-15.
7. M. Miyake, Y. Kubo, T. Hirato, Hull cell tests for evaluating the effects of polyethylene amines as brighteners in the electrodeposition of aluminum from dimethylsulfone-AlCl₃ baths, *Electrochim. Acta* 120, 2014, 423-428.
8. H. Nakano, T. Ura, S. Oue, S. Kobayashi, Effect of preadsorption of organic additives on the appearance and morphology of electrogalvanized steel sheets, *ISIJ Int* 54, 2014, 1653-1660

(215)D.Kashchiev, "Solution of the non-steady state problem in nucleation kinetics", Surface Sci. 14(1969)209

9. L. Boinovich, A. Emelyanenko, V.V. Korolev, A.S. Pashinin, “Effect of Wettability on Sessile Drop Freezing. When the Superhydrophobicity Stimulates Extreme Freezing Delay?”, *Langmuir* 30(2014)1659.
10. B.B. Schroeder, D.D. Harris, S.T. Smith, D.O. Lignell, ”, M.Sc. Thesis, Delft University of Technology, Delft, 2014.
11. R. Piolet, “Synthèse hydrothermale de nanoparticules de ZnO au-delà du point critique: compréhension des étapes de germination et de croissance”, Ph.D. Thesis, Université de Bourgogne, Dijon, 2014.
12. E.V. Colla, J.R. Jeliaskov, M.B. Weissman, D.D. Viehland, Z.-G. Ye, “Kinetics of nucleation of the ferroelectric transitions in PbMg_{1/3}Nb_{2/3}O₃ and PbMg_{1/3}Nb_{2/3}O₃-12% PbTiO₃”, *Phys. Rev. B* 90(2014)024205.
13. I.-C. Chen, P.-Y. Lin, T.T. Li, J.-Y. Chang, “Kinetic study of the thermal crystallization behavior of hydrogenated amorphous silicon prepared by ECRCVD”, *ECS J. Solid State Sci. Technol.* 3(2014)N75.

14. B.Hyot, "Chalcogenide for phase change optical and electrical memories", in: "Chalcogenide Glasses: Preparation, Properties and Applications", Eds. J.L.Adam, X.Zhang, Woodhead Publishing, Cambridge,2014, p.597.
- (244)I. Gutzow, S. Toshev, On the role of transient nucleation in crystal growth, J. Cryst. Growth 7, 2, 1970, 215-220.**
15. K. Thieme, C. Rüssel, Nucleation inhibitors-The effect of small concentrations of Al₂O₃, La₂O₃ or TiO₂ on nucleation and crystallization of lithium disilicate, J. Eur. Ceram. Soc. 34, 15, 2014, 3969-3979.
- (277)Markov I., The influence of surface diffusion processes on the kinetics of heterogeneous nucleation, 1971, Thin Solid Films,(4)281-292**
16. Mehringer, C., Wagner, R., Jakuttis, T., Spiecker, E., Peukert, W., Gas phase synthesis of anisotropic silicon germanium hybrid nanoparticles, 2014 Journal of Aerosol Science 67, pp. 119-130
- (285)S.P. Stoylov, Colloid electro-optics. Electrically induced optical phenomena in disperse systems, Adv. Colloid Interface Sci. 3(1971)45-110.**
17. V. Milkova, K. Kamburova, Ts. Radeva, Electro-optics of polyelectrolyte multilayers on colloidal particles, Colloids Surf. A: Physicochem. Eng. Aspects 460(2014)502-509.
18. K. Kamburova, V. Milkova, Ts. Radeva, Polyelectrolyte coatings on hematite nanoparticles impregnated with corrosion inhibitor benzotriazole, Colloids Surf. A: Physicochem. Eng. Aspects 462(2014)237-243.
19. V. Milkova, Polyelectrolyte/nanoparticle hybrid films on anisometric colloids studied by electro-optics, Colloids Surf. A: Physicochem. Eng. Aspects 455(2014)156-163.
- (323)I.Markov, D.Kashchiev, "Nucleation on active centres. I. General theory", J.Cryst.Growth 16(1972)170-176.**
20. J.Velmurugan, J.M.Noel, M.V.Mirkin, "Nucleation and Growth of Mercury on Pt Nanoelectrodes at Different Overpotentials", Chem.Sci. 5(2014)189.
- (338)Toshev, S., Milchev, A., Stoyanov, S., On some probabilistic aspects of the nucleation process, (1972) Journal of Crystal Growth, 13-14(C), pp. 123-127.**
21. Wu, J.X., Rehder, S., Berg, F.V.D., Amigo, J.M., Carstensen, J.M., Rades, T., Leopold, C.S., Rantanen, J., Chemical imaging and solid state analysis at compact surfaces using UV imaging, International Journal of Pharmaceutics 477(1-2)(2014)527-535.
- (358)Markov I., Boynov A., Toshev S., Screening action and growth kinetics of electrodeposited mercury droplets, 1973, Electrochimica Acta,(5)377-384**
22. Arjona, N., Guerra-Balcázar, M., Trejo, G.,(..), Ledesma-García, J., Arriaga, L.G., Staircase and pulse potential electrochemical techniques for the facile and rapid synthesis of Pt and PtAg materials, 2014 Electrochimica Acta 115, pp. 46-55
23. Nikolic, N.D., Popov, K.I., Ivanovic, E.R., Brankovic, G., Effect of the orientation of the initially formed grains on the final morphology of electrodeposited lead, 2014 Journal of the Serbian Chemical Society 79(8), pp. 993-1005
- (379)I. Gutzov, I. Avramov, On the mechanism of formation of amorphous condensates from the vapour phase(I). General theory, Journal of Non-Crystalline Solids 16(1974)128-142**
24. T. Zscheckel, W. Wisniewski, A. Gebhardt, C. Rüssel, Mechanisms counteracting the growth of large grains in industrial Zn grown by chemical vapor deposition. 6(2014)394-400
- (385)Milchev, A., Stoyanov, S., Kaishev, R., Atomistic theory of electrolytic nucleation: I (1974) Thin Solid Films, 22(3), pp. 255-265.**

25. Desai, D., Turney, D.E., Anantharaman, B., Steingart, D.A., Banerjee, S., Morphological evolution of nanocluster aggregates and single crystals in alkaline zinc electrodeposition, 2014, *Journal of Physical Chemistry C* 118(16), pp. 8656-8666
- (386)Milchev, A., Stoyanov, S., Kaishev, R., Atomistic theory of electrolytic nucleation: II (1974) Thin Solid Films, 22(3), pp. 267-274.**
26. Desai, D., Turney, D.E., Anantharaman, B., Steingart, D.A., Banerjee, S., Morphological evolution of nanocluster aggregates and single crystals in alkaline zinc electrodeposition, 2014, *Journal of Physical Chemistry C* 118(16), pp. 8656-8666
- (410)D.Kashchiev, "Kinetics of the initial stage of electrolytic deposition of metals. III. Galvanostatic conditions", Thin Solid Films 29(1975)193**
27. G.Goransson, "Electrocatalytic properties of Ni hydroxides with Zn or Co in the Ni matrix", Ph.D.Thesis, University of Gothenburg, 2014.
28. G.Goransson, A.Johansson, F.Falkenberg, E.Ahlberg, "Characterization of Pulse Plated Ni and NiZn Alloys", *J.Electrochem.Soc.* 161(2014)D476.
- (448)D.Kashchiev,"Kinetics of thin film coalescence due to crystallite surface migration", Surface Sci. 55(1976)477**
29. J.Sehested, N.W.Larsen, H.Falsig, B.Hinnemann, "Sintering of nickel steam reforming catalysts: Effective mass diffusion constant for Ni-OH at nickel surfaces", *Catalysis Today* 228(2014)22.
- (452)Markov I., Kaischew R., Influence of supersaturation on the mode of crystallization on crystalline substrates, 1976, Thin Solid Films,(1)163-167**
30. Shiramomo, T., Gao, B., Mercier, F.,(.), Nakano, S., Kakimoto, K., Study of the effect of doped impurities on polytype stability during PVT growth of SiC using 2D nucleation theory, 2014 *Journal of Crystal Growth*385, pp. 95-99
- (455)Milchev, A., Stoyanov, S., Classical and atomistic models of electrolytic nucleation comparison with experimental data,(1976)Journal of Electroanalytical Chemistry, 72(1), pp. 33-43.**
31. Desai, D., Turney, D.E., Anantharaman, B., Steingart, D.A., Banerjee, S., Morphological evolution of nanocluster aggregates and single crystals in alkaline zinc electrodeposition, 2014, *Journal of Physical Chemistry C* 118(16), pp. 8656-8666
- (466)S.Toshev, A.Milchev, E.Vassileva, Electronmicroscope investigations of the initial stages of silver electrodeposition, Electrochim. Acta, 21(1976)1055-1059, ISSN: 00134686.**
32. N. Arjona, M. Guerra-Balcázar, G. Trejo, L. Álvarez-Contreras, J. Ledesma-García, L.G. Arriaga, Staircase and pulse potential electrochemical techniques for the facile and rapid synthesis of Pt and PtAg materials , *Electrochim. Acta*, 115(2014)46–55, ISSN: 00134686
- (483)I. Gutzow, The mechanism of crystal growth in glass forming systems, J. Cryst. Growth 42 C, 1977, 15-23.**
33. N.S. Trasi, J.A. Baird, U.S. Kestur, L.S. Taylor, Factors influencing crystal growth rates from undercooled liquids of pharmaceutical compounds, *J. Phys. Chem. B* 118, 33, 2014, 9974-9982.
34. M. Descamps, E. Dudognon, Crystallization from the amorphous state: Nucleation-growth decoupling, polymorphism interplay, and the role of interfaces, *J. Pharm. Sci.* 103, 9, 2014, 2615-2628.
- (485)D.Kashchiev, "Growth kinetics of dislocation-free interfaces and growth mode of thin films", J.Cryst.Growth 40(1977)29**

35. N.V.Lyanguzov, “СИНТЕЗ НАНОСТРУКТУР НА ОСНОВЕ ОКСИДА ЦИНКА И ИХ ФИЗИЧЕСКИЕ СВОЙСТВА”, Ph.D.Thesis, YuzhnyiFederalnyiUniversitet, Rostov-na-Donu, 2014.
36. C.P.Race, J. von Pezold, J.Neugebauer, “Role of the mesoscale in migration kinetics of flat grain boundaries”, *Phys.Rev. B* 89(2014)214110.
37. V.G.Dubrovskii, “Nucleation Theory and Growth of Nanostructures”, Springer, Berlin, 2014.

(500)V. Velinov, S. Vitkova, N. Pangarov, On some relationships between the structure and brightness of oriented electrodeposited nickel coatings, *Surface Technology*6(1977)19-29.

38. Hossein Alimadadi, Alice Bastos Fanta, Marcel A.J. Somers, Karen Pantleon, Crystallographic orientations and twinning of electrodeposited nickel—a study with complementary characterization methods, *Surface and Coatings Technology*, 254,(2014), 207–216.

(537)D.Kashchiev, "Mean thickness at which vapour-deposited thin films reach continuity", *Thin Solid Films* 55(1978)399

39. N.V.Lyanguzov, Синтез наноструктур на основе оксида цинка и их физические свойства”, Ph.D.Thesis, YuzhnyiFederalnyiUniversitet, Rostov-na-Donu, 2014.

(627)D.Kashchiev, D.Exerowa, "Nucleation mechanism of rupture of Newtonian black films. I. Theory", *J.Colloid Interface Sci.* 77(1980)501

40. V.O.Pauchard, J.P.Rane, S.Zarkar, A.Couzis, S.Banerjee, “Long term adsorption kinetics of asphaltenes at the oil-water interface: a random sequential adsorption perspective.”, *Langmuir*(2014)30(2014)8381.
41. V.O.Pauchard, J.P.Rane, S.Banerjee, “Asphaltene-laden interfaces form soft glassy layers in contraction experiments: a mechanism for coalescence blocking”, *Langmuir* 30(2014)12795.
42. H.Ohshima, K.Makino, “Colloid and Interface Science in Pharmaceutical Research and Development”, Elsevier, Amsterdam, 2014.
43. A.Nikolov, D.Wasan, “Wetting-Dewetting Films: The Role of Structural Forces”, *Adv.Coll.Interf.Sci.* 206(2014)207.

(666)S.Stoyanov, D.Kashchiev, "Thin film nucleation and growth theories: a confrontation with experiment", in: "Current Topics in Materials Science", Vol.7, Ed. E.Kaldis, North-Holland, 1981, p.69

44. A.V.Zotov, A.A.Saranin, “Size distributions of fullerene surface clusters”, *Appl.Surf.Sci.* 307(2014)46.
45. Z.Chen, C.-H.Shek, C.M.L.Wu, J.K.L.Lai, “Advances in fractal germanium micro/nanoclusters induced by gold: Microstructures and properties”, *J.Nanosci.Nanotechnol.* 14(2014)1318.
46. J.R.Morales-Cifuentes, T.L.Einstein, A.Pimpinelli, “How “hot precursors” modify island nucleation: a rate-equation model”, *Phys.Rev.Lett.* 113(2014)246101.
47. V.G.Dubrovskii, N.V.Sibirev, “Size distributions, scaling properties, and Bartelt-Evans singularities in irreversible growth with size-dependent capture coefficients”, *Phys.Rev. B* 89(2014)054305.
48. D.Gokcen N.V.Sibirev, V.G.Dubrovskii, A.V.Matetskiy, L.V.Bondarenko, D.V.Druznev,, Q.Yuan, S.P.Brancovic, “Nucleation of Pt Monolayers Deposited via Surface Limited Redox Replacement Reaction”, *J.Electrochem.Soc.* 161(2014)D3051.

(624)I. Avramov, I. Gutzow, *Mat. Chem.*, Conditions for direct formation of glassy, liquid or crystalline condensates, *Materials Chemistry* 5(1980)315-336.

49. T. Zscheckel, W. Wisniewski, A. Gebhardt, C. R+ssel, Mechanisms counteracting the growth of large grains in industrial zns grown by chemical vapor deposition. 6(2014)394-400.

(626)I. Gutzow, Kinetics of crystallization processes in glass forming melts, J. Cryst. Growth 48, 4, 1980, 589-599.

50. M. Descamps, E. Dudognon, Crystallization from the amorphous state: Nucleation-growth decoupling, polymorphism interplay, and the role of interfaces,(2014)J. Pharm. Sci. 103, 9, 2014, 2615-2628.

(671)N. Atanassov, S. Vitkova, S. Rashkov, Electrocrystallization of nickel coatings with <211> texture, Surface Technology 13(1981)215-223.

51. Hossein Alimadadi, Alice Bastos Fanta, Marcel A.J. Somers, Karen Pantleon, Crystallographic orientations and twinning of electrodeposited nickel—a study with complementary characterization methods, Surface and Coatings Technology, 254,(2014), 207–216.

(676)D. Exerowa, A. Nikolov, M. Zacharieva, Common black and Newton film formation, Journal of Colloid and Interface Science 81(1981)419-429.

52. E. Rio, A.L. Biance, Thermodynamic and mechanical timescales involved in foam film rupture and liquid foam coalescence, ChemPhysChem 15, 2014, 3692-3707.
53. J.L. Toca-Herrera, N. Krasteva, H.J. Müller, R. Krastev, Interactions in lipid stabilised foam films, Adv Colloid Interface Sci 207, 2014, 93-106.
54. Nikolov, D. Wasan, Wetting-dewetting films: The role of structural forces, Adv Colloid Interface Sci 206, 2014, 207-221.
55. Ася Цанова, „Свойства и механизми на действие на неврпептиди с моделни мембрани с оглед приложението им във фармацията” Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.

(691)A. Nikolov, G. Martynov, D. Exerowa, Associative interactions and surface tension in ionic surfactant solutions at concentrations much lower than the cmc, Journal of Colloid and Interface Science 81(1981)116-124.

56. D. Arabadzhieva, P. Tchoukov, B. Soklev, E. Mileva, Interfacial layer properties and foam film drainage kinetics of aqueous solutions of hexadecyltrimethylammonium chloride, Colloids Surf. A Physicochem. Eng. Asp. 460, 2014, 28-37.

(706)S. Armyanov, T. Vangelova, R. Stoyanchev, Pretreatment of Al-Mg Alloys for Electrodeposition by Immersion Zinc and Electroless Nickel, Surface Technology, 17(1982)89-100

57. H. Yang, X. Guo, X. Chen, N. Birbilis, A homogenisation pre-treatment for adherent and corrosion-resistant Ni electroplated coatings on Mg-alloy AZ91D, Corrosion Science, 79,2014,41-49.
58. S. Mohan Kumar, R. Pramod, M.E. Shashi Kumar, H.K. Govindaraju, Evaluation of Fracture Toughness and Mechanical Properties of Aluminum Alloy 7075, T6 with Nickel Coating, Procedia Engineering, 97, 2014, 178–185.

(709)N. Atanassov, Hr. Bozhkov, St. Vitkova, St. Rashkov, Morphology and properties of nickel plate deposited in the presence of butynediol, Surface Technology, 17, (4),(1982), 291-299.

59. Jannis Andreska, Christoph Maurer <mailto:Christoph.Maurer@dlr.de>, Jens Bohnet, Uwe Schulz, Erosion resistance of electroplated nickel coatings on carbon-fibre reinforced plastics, Wear, 319, 1–2,(2014), 138–144.
60. Hossein Alimadadi, Alice Bastos Fanta, Marcel A.J. Somers, Karen Pantleon, Crystallographic orientations and twinning of electrodeposited nickel—a study with

complementary characterization methods, *Surface and Coatings Technology*, 254,(2014), 207–216.

(718)D.Kashchiev, "On the relation between nucleation work, nucleus size and nucleation rate", *J.Chem.Phys.* 76(1982)5098

61. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.
62. G.G.Kodenev, A.V.Samodurov, M.N.Baldin, A.M.Baklanov, "A study of nucleation in supersaturated ibuprofen vapor in a flow diffusion chamber", *Colloid.J.* 76(2014)38.
63. A.B.D.Nandiyanto, T.Ogi, K.Okuyama, "Control of Shell Structural Properties and Cavity Diameter of Hollow Magnesium Fluoride Particles", *ACS Appl.Mater.Interf.* 6(2014)4418.
64. S.Braun, V.Kalikmanov, T.Kraska, "Molecular dynamics simulation of nucleation in the binary mixture n-nonane/methane", *J.Chem.Phys.* 140(2014)124305.
65. A.C.Frank, P.T.A.Sumodjo, "ELECTRODEPOSITION OF COBALT FROM CITRATE CONTAINING BATHS", *Electrochim.Acta* 132(2014)75.
66. X Zhao, J Jin, JC Cheng, JW Lee, KH Wu, KC Lin, J.-R.Tsai, K.-C.Liu, "Structural and optical properties of zirconia thin films deposited by reactive high-power impulse magnetron sputtering", *Thin Solid Films* 570(2014)404.
67. S.L.Girshick, "The dependence of homogeneous nucleation rate on supersaturation", *J.Chem.Phys.* 141(2014)024307.
68. O.Kupiainen-Maatta, T.Olenius, H.Korhonen, J.Malila, "Critical cluster size cannot in practice be determined by slope analysis in atmospherically relevant applications", *J.Aerosol Sci.* 77(2014)127.
69. S.V.Akella, A.Mowitz, M.Heymann, S.Fraden, "An emulsion based technique to measure protein crystal nucleation rates of lysozyme", *Cryst.Growth Des.* 14(2014)4487.
70. M.A.Gonzalez, G.Menzl, J.L.Aragones, P.Geiger, F.Caupin, J.L.F.Abascal, C.Dellago, C.Valeriani, "Detecting vapour bubbles in simulations of metastable water", *J.Chem.Phys.* 141(2014)18C511.
71. Y.Cai, H.A.Wu, S.N.Luo, "Cavitation in a metallic liquid: Homogeneous nucleation and growth of nanovoids" *J.Chem.Phys.* 140(2014)214317.

(760)D.Kashchiev, D.Exerowa, "Bilayer lipid membrane permeation and ruptured uetohole formation", *Biochim.Biophys.Acta* 732(1983)133

72. M.Winterhalter, "Lipid membranes in external electric fields: Kinetics of large pore formation causing rupture", *Adv.Coll.Interf.Sci.* 208(2014)121.
73. V.O.Pauchard, J.P.Rane, S.Zarkar, A.Couzis, S.Banerjee, "Long term adsorption kinetics of asphaltenes at the oil-water interface: a random sequential adsorption perspective.", *Langmuir*(2014)30(2014)8381

(757)D.Exerowa, B.Balinov, D.Kashchiev, "Nucleation mechanism of rupture of Newtonian black films. II. Experiment", *J.Colloid Interface Sci.* 94(1983)45

74. V.O.Pauchard, J.P.Rane, S.Zarkar, A.Couzis, S.Banerjee, "Long term adsorption kinetics of asphaltenes at the oil-water interface: a random sequential adsorption perspective.", *Langmuir*(2014)30(2014)8381.
75. V.O.Pauchard, J.P.Rane, S.Banerjee, "Asphaltene-laden interfaces form soft glassy layers in contraction experiments: a mechanism for coalescence blocking", *Langmuir* 30(2014)12795.

(761)K.I. Khristov, D.R. Exerowa, P.M. Krugljakov, Influence of the type of foam films and the type of surfactant on foam stability, *Colloid & Polymer Science* 261(1983)265-270.

76. B. Scheid, J. Zawala, S. Dorbolo, Gas dissolution in antibubble dynamics, *Soft Matter* 10, 2014, 7096-7102.

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

77. Kozmidis-Petrovic, AF, INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, 5(2):193-205; SI 10.1111/ijag.12062 JUN 2014
- (775)R. Pascova, I. Gutzow, Model Investigation of the Mechanism of Formation of Phototropic Silver Halide Phases in Glasses. [Modelluntersuchung zum Bildungsmechanismus fototroper Silberhalogenidphasen in Glaesern.], Glastechn. Berichte 56, 12, 1983, 324-330.**
78. J.W.P. Schmelzer, A.S. Abyzov, Comments on the thermodynamic analysis of nucleation in confined space, J. Non-Cryst. Solids 384, 2014, 2-7.
- (799)D.Exerowa, Z.Lalchev, D.Kashchiev, "Stability of foam lipid bilayers of amniotic fluid", Colloids Surfaces 10(1984)113**
79. H.Ohshima, K.Makino, "Colloid and Interface Science in Pharmaceutical Research and Development", Elsevier, Amsterdam, 2014.
- (806)D.Kashchiev,"The Kinetic Approach to Nucleation", Cryst.Res.Technol. 19(1984)1413**
80. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", Adv.Chem.Phys. 155(2014)97.
- (810)Milchev A., Markov I., The effect of anharmonicity in epitaxial interfaces. I. Substrate-induced dissociation of finite epitaxial islands, 1984, Surface Science,(2-3)503-518**
81. Tchakoutio Nguetcho, A.S., Li, J., Bilbault, J.M., Bifurcations of phase portraits of a Singular Nonlinear Equation of the Second Class, 2014 Communications in Nonlinear Science and Numerical Simulation19(8), pp. 2590-2601
- (812)The effect of anharmonicity in epitaxial interfaces .1. substrate-induced dissociation of finite epitaxial islands, MILCHEV, A; MARKOV, I, SURFACE SCIENCE Volume: 136 Issue: 2-3 Pages: 503-518 Published: 1984**
82. Bifurcations of phase portraits of a Singular Nonlinear Equation of the Second Class, Nguetcho, A. S. Tchakoutio; Li, Jibin; Bilbault, J. M. COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION Volume: 19 Issue: 8 Pages: 2590-2601 Published: AUG 2014
- (813)S. Mureramanyi, V. Goltzev, G. Todorov, A. Zhivkov, S.P. Stoylov, 650 - An electrooptical study of the dimensions and electric polarizability of chloroplasts and subchloroplast fragments, Bioelectrochemistry and Bioenergetics 13(1984)453-457.**
83. V. Doltchinkova, P.R. Angelova, Phytohemagglutinin and light-induced charge density effects on plasma membrane of Plectonema boryanum, Journal of New Developments in Chemistry 1 2014, 11-19.
- (823)D.S. Stoychev, E.A. Stoyanova, St. Rashkov, Deposition of thin tin coatings on aluminium alloys, Surface Technology, 23, 2(1984)127-141, ISSN: 0257-8972**
84. P. S. D. Brito and C. A. C. Sequeira, Organic Inhibitors of the Anode Self-Corrosion in Aluminum-Air Batteries, J. Fuel Cell Sci. Technol 11, 1(2014)ISSN: 15516989
- (852)I. Gutzow, D. Kashchiev, I. Avramov, Nucleation and crystallization in glass-forming melts: Olds problems and new questions, Journal of Non-Crystalline Solids73(1985)477-499**
85. Ma, D. W., Cheng, C., Zhang, Y. N., & Xu, Z. S.(2014). Preparations of PbSe quantum dots in silicate glasses by a melt-annealing technique. Optical Materials 37(2014)834-839.
- (856)Markov I., Milchev A., Theory of epitaxy in a Frank-van der Merwe model with anharmonic interactions, 1985, Thin Solid Films,(1-2)83-93**
86. Moridi, A., Ruan, H., Zhang, L., Liu, M., On the dependence of surface undulation on film thickness, 2014 Journal of Physics and Chemistry of Solids, 75(4), pp. 500-504

- (857)The effect of realistic forces in finite epitaxial islands - equilibrium structure, stability limits and substrate-induced dissociation of migrating clusters, MILCHEV, A; MARKOV, I, SURFACE SCIENCE Volume: 156 Issue: JUN Pages: 392-403 Published: 1985**
87. Anomalous strain behavior on EuTe self-assembled islands, E. Heredia, B. Diaz, A. Malachias, P.H.O. Rappl, F. Iikawa, M.J.S.P. Brasil, P. Motisuke, JOURNAL OF CRYSTAL GROWTH Volume: 386 Pages: 139-145 Published: JAN 15 2014
- (859)A. Milchev and V.Tsakova, Probabilistic aspects of mercury electrodeposition on a platinum single crystal electrode- I, Electrochim. Acta, 30,1985, 133-142.**
88. J. Velmurugan, J.-M. Noël, M.V. Mirkin, Nucleation and growth of mercury on Pt nanoelectrodes at different overpotentials, Chemical Science, 5, 2014, 189-194.
- (867)I.B. Petkanchin, T.T. Suong, Influence of pH on electric light scattering of palygorskite and bentonite suspensions, Journal of Colloid and Interface Science 108(1985)553-555.**
89. J. Lu, X. Tian, Y. Jin, J. Chen, K.B. Walters, S. Ding, A pH responsive Pickering emulsion stabilized by fibrous palygorskite particles, Appl.Clay Sci. 102, 2014, 113-120.
- (874)D.S. Stoychev, I.V. Tomov, I.B. Vitanova, Recovery and recrystallization of electrodeposited bright copper coatings at room temperature. I. Microhardness in relation to coating structure, Journal of applied electrochemistry, 15, 6(1985)879-886, ISSN: 0021-891X(Print)1572-8838(Online)**
90. Akitoshi Suzuki, Jun Shinozaki, Copper Foil Smooth on Both Sides for Lithium-Ion Battery, Chapter 10in: Copper Electrodeposition for Nanofabrication of Electronics Devices, Nanostructure Science and Technology, pp. 229-265(2014), ISBN: 978-1-4614-9175-0(Print)978-1-4614-9176-7(Online)
- (909)D. Exerowa, Z. Lalchev, Bilayer and multilayer foam films: Model for study of the alveolar surface and stability, Langmuir 2(1986)668-671.**
91. Ася Цанова, „Свойства и механизми на действие на неврoпептиди с моделни мембрани с оглед приложението им във фармацевцията” Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.
- (912)E. Grantscharova, I. Gutzow, Vapour pressure, solubility and affinity of undercooled melts and glasses, J. Non-Cryst. Solids 81, 1-2, 1986, 99-127.**
92. G.P. Johari, R.M. Shanker, On the solubility advantage of a pharmaceutical's glassy state over the crystal state, and of its crystal polymorphs, Thermochim. Acta 598, 2014, 16-27.
- (913)E. Grantscharova, I. Avramov, I. Gutzow, Calorimetric study of vitreous and crystalline sodium metaphosphate NaPO₃, Thermochim. Acta 102, C, 1986, 249-256.**
93. B.K. Money, K. Hariharan, Mixed alkali effect on crystallization kinetics of xNa₂O:(50-x)Li₂O:50P₂O₅, Solid State Ionics 262, 2014, 824-828.
- (923)Fluctuations and lack of self-averaging in the kinetics of domain growth,Milchev, A; Binder, K; Heermann, DW, zeitschrift fur physik b-condensed matter Volume: 63 Issue: 4 Pages: 521-535 Published: 1986**
94. Velonakis, Ioannis N. PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 399 Pages: 171-188 Published: APR 1 2014
95. Gazit, Snir; Podolsky, Daniel; Auerbach, Assa; PHYSICAL REVIEW B Volume: 88 Issue: 23 Article Number: 235108 Published: DEC 6 2013
- (926)D. Nenow,A. Trayanov, Thermodynamics of crystal surfaces with quasi-liquid layer, Journal of Crystal Growth 79(1986)801-80.**
96. X.L. Li, C.X. Wang, G.W. Yang, Thermodynamic theory of growth of nanostructures, Progress in Materials Science 64, 2014, 121-199.

97. X. Li, Modeling the size- and shape-dependent cohesive energy of nanomaterials and its applications in heterogeneous systems, *Nanotechnology* 25(18), 2014, 185702.
- (927)D. Nenow, S. Gueleva, Formation of radiation-induced voids on dislocations in LiF, Physica Status Solidi (A) Applied Research 55(2)(1979)489-496.**
98. Y. Yang, W.-Y. Lo, C. Dickerson, T.R. Allen, Stoichiometry effect on the irradiation response in the microstructure of zirconium carbides, *Journal of Nuclear Materials* 454 (1-3), 2014, 130-135.
- (933)Ts. Radeva, S. Stoylov, T. Suong, Effect of the surface-active substance cetylpyridinium chloride on the electric light scattering of bentonite, Colloids Surf. 17(1986)229-239.**
99. S. Nishimura, T. Inoue, Electro-optics of plate-like particle suspension, *Colloids Surf. A: Physicochem. Eng. Aspects* 440, 2014, 175-184.
- (936)Stoyanov, S., On the theory of epitaxial growth, Surface Science, 172(1)(1986)198-210.**
100. Nath, P., Ranganathan, M., Study of Stranski-Krastanov growth using kinetic Monte Carlo simulations with an atomistic model of elasticity, *Surface Science* 628(2014) 8-16.
- (973)D. Exerowa, T. Kolarov, K. Khristov, Direct measurement of disjoining pressure in black foam films. I. Films from an ionic surfactant, Colloids and Surfaces 22(1987)171-185.**
101. P. Tchoukov, F. Yang, Z. Xu, T. Dabros, J. Czarnecki, J. Sjöblom, Role of asphaltenes in stabilizing thin liquid emulsion films, *Langmuir* 30, 2014, 3024-3033.
102. J.L. Toca-Herrera, N. Krasteva, H.J. Müller, R. Krastev, Interactions in lipid stabilised foam films, *Adv Colloid Interface Sci* 207, 2014, 93-106.
103. A. Nikolov, D. Wasan, Wetting-dewetting films: The role of structural forces, *Adv Colloid Interface Sci* 206, 2014, 207-221.
104. H. Fauser, R. Von Klitzing, Effect of polyelectrolytes on (de)stability of liquid foam films, *Soft Matter* 10, 2014, 6903-6916.
105. E. Rio, A.L. Biance, Thermodynamic and mechanical timescales involved in foam film rupture and liquid foam coalescence, *ChemPhysChem* 15, 2014, 3692-3707.
106. I. Terziyski, L. Alexandrova, I. Stoineva, N. Christova, R. Todorov, R. Cohen, Foam and wetting films from rhamnolipids produced by *Pseudomonas aeruginosa* BN10, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 299-305.
- (977)M. Kouncheva, G. Raichevski, S. Vitkova, M. Prazak, The effect of sulphur and carbon inclusions on the corrosion resistance of electrodeposited Ni-Fe alloy coatings, Surface and Coatings Technology 31(1987)137-142.**
107. N.R. Nik Masdek, A.M. Alfantazi, An EQCM study on the influence of saccharin on the corrosion properties of nanostructured cobalt and cobalt-iron alloy coatings, *Journal of Solid State Electrochemistry*, 18, Issue 6, (2014), 1701-1716.
- (968)I. Avramov, E. Grantscharova, I. Gutzow, J. "Structural relaxation in two metaphosphate glasses" Non-Cryst. Sol 91(1987)386, ISSN 0022-3093**
108. W. Sun, A.P. Vassilopoulos, T. Keller, Effect of thermal lag on glass transition temperature of polymers measured by DMA. *52(2014)31-39.*
- (997)V. Tsakova and 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.**

109. G. Farkhondeh, R. E. Sabzi, Electrochemical Sensor for Arabinose Based on Template-free Pb/Cd Branched Nanorods on Glassy Carbon Electrode, *J. Chinese Chem. Soc.*2014, DOI: 10.1002/jccs.201400317
110. S. C. S. Lai, R. A. Lazenby, P. M. Kirkman, P. R. Unwin, Nucleation, aggregative growth and detachment of metal nanoparticles during electrodeposition at electrode surfaces, *Chem. Sci*, 2014 , DOI:0.1039/c4sc02792b.

(1022)I. Avramov, A. Milchev, Effect of disorder on diffusion and viscosity in condensed systems*Journal of Non-Crystalline Solids***104(1988)253-260**

111. M. Chromkov+б, M. Linka, J. Machinek, J. Chovanec, Thermodynamic model and viscosity of Na₂O-MgO-CaO-SiO₂ glasses.*Journal of Non-Crystalline Solids* 401(2014)237-240.
112. D.S. Sanditov, Deformation-activation model of viscous flow of glass-forming liquids.*Journal of Non-Crystalline Solids* 400(2014)12-20.
113. D. Cangialosi, Dynamics and thermodynamics of polymer glasses. *J. Phys.: Condens. Matter* 26(2014).
114. S. Ravindren, K. Gunasekera, Z. Tucker, A. Diebold, P. Boolchand, M. Micoulaut, Crucial effect of melt homogenization on the fragility of non-stoichiometric chalcogenides. *J Chem Phys.* 140(2014).
115. J. Chovanec, M. Chrom-H+нkov+б, M. Li+бka, J. Sh+бн-бIlov+б, J. M+бlek, Thermodynamic model and viscosity of Ge-S glasses. 116(2014)581-588.
116. L. Mu+-oz-Senovilla, F. Mu+-oz, Behaviour of viscosity in metaphosphate glasses*Journal of Non-Crystalline Solids.* 385(2014)9-16.
117. M.P. Longinotti, J.A. Trejo Gonz+бlez, H.R. Corti, Concentration and temperature dependence of the viscosity of polyol aqueous solutions. 69(2014)84-90.
118. A.F. Kozmidis-Petrovi-3, Modified angell plot of viscous flow with application to silicate and metallic glass-forming liquids *International Journal of Applied Glass Science.* 5(2014)193-205.

(1033)G. Meyer, M. Michailov, M. Henzler, LEED Study of the Epitaxy of Pb on Cu(111),
Surf. Sci., 202(1988), p. 125

119. Chen, Yuanyuan, Xiangxiang Cui, and Xin Yao. "Peritectic melting of thin films, superheating and applications in growth of REBCO superconductors." *Progress in Materials Science* 68(2015): 97-159.
120. Wu, Ju, and Jin Peng. "Self-assembly of InAs quantum dots on GaAs (001)by molecular beam epitaxy." *Frontiers of Physics* (2014): 1-53. Springer Verlag, DOI:10.1007/s11467-014-0422-4

(1042)M. Nedyalkov, R. Krustev, D. Kashchiev, D. Platikanov, D. Exerowa, Permeability of Newtonian black foam films to gas, Colloid & Polymer Science **266(1988)291-296.**

121. J.C. Germain, J.M. Aguilera, Multi-scale properties of protein-stabilized foams, *Food Struct.* 1, 2014, 55-70.
122. Иван Лесов, "Получаване на порьозни материали от пени, стабилизирани със силикатни частици", Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.

(1061)S. Vitkova, M. Kjachukova, G. Raichevski, Electrochemical preparation of amorphous Fe-P alloys, Journal of Applied Electrochemistry**18(1988)673-678.**

123. 6. F. Safizadeh, E.Ghali, G.Houlachi,Electrocatalysis developments for hydrogen evolution reaction in alkaline solutions – A - Review,*International Journal ofHydrogen Energy,* 40,(1)(2014), 256-274.
124. 7. M. S. Chandrasekar, S.Mitra, Electrodeposition of iron phosphide on copper substrate as conversion negative electrode for lithium-ion battery application, *Ionics*, 20, Issue 1,(2014), 137-140.

(1073)S. A. Armyanov, G. S. Sotirova, Electroless Co-Ni-P Thin Films for Magnetic Recording, Journal of the Electrochemical Society, 136(1989)1575-1578

125. A. Kumar, A. Kumar Suhag, A. Singh, S.K. Sharma, M. Kumar, D. Kumar, Deposition and characterization of amorphous electroless Ni-Co-P alloy thin film for ULSI application, Materials Research Express, 1,2014, 035007, 7 pages.

(1092)A. Nikolova, D. Kashchiev, D. Exerowa, Effect of temperature on the rupture of Newton black foam films, Colloids and Surfaces 36(1989)339-351.

126. J.L. Toca-Herrera, N. Krasteva, H.J. Müller, R. Krastev, Interactions in lipid stabilised foam films, Adv Colloid Interface Sci 207, 2014, 93-106.

(1100)G. Sotirova, S. Sarnev, S. Armyanov, Evolution of the Included Hydrogen, Internal Stress, Microhardness and Microstructure of Electrodeposited Cobalt, Electrochimica Acta, 34(1989)1237-1242

127. Ц. В. Доброволска, „Електрохимично получаване, структура и свойства на двойни сплави от сребро, индий, кадмий и кобалт”, дисертация за присъждане на научната степен, „доктор на химическите науки” София, 2014.

(1114)I.Avramov, A. Milchev, Proc. XV Intern. Congr. on Glass, Leningrad 1989, 1a p.274

128. Kozmidis-Petrovic, AF, INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, 5(2):193-205; SI 10.1111/ijag.12062 JUN 2014

(1122)П. Кругляков, Д. Ексерова. Пена и пенные пленки, Химия, Москва, 1990.

129. Ася Цанова, „Свойства и механизми на действие на невропептиди с моделни мембрани с оглед приложението им във фармацията” Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014

(1298)A.Milchev and M.I.Montenegro, A galvanostatic study of electrochemical nucleation, J.Electroanal.Chem., 333(1992)93-102, ISSN: 00220728."

130. Vladimir A. Isaev, Olga V. Grishenkova, J Solid State Electrochemistry, 18(9)(2014)2383-2386, DOI 10.1007/s10008-014-2489-9 Print ISSN 1432-8488, Galvanostatic phase formation
131. Radisic, A., Morcos, B.M., Op De Beeck, M., O'Callaghan, J.M., Van Hoof, C. Electrochemical fabrication of platinum interconnects for implantable electronic devices, Microelectronic Engineering, 120(2014)251-256, ISSN: 01679317
132. Radisic, A., Morcos, B.M., Op De Beeck, M., O'Callaghan, J.M., Van Hoof, C. Electrochemical deposition of platinum interconnects on flexible biocompatible substrates Prehospital and Disaster Medicine 1626(1)(2014), ISSN: 1049023X
133. Radisic, A., Morcos, B.M., Op De Beeck, M., O'Callaghan, J.M., Van Hoof, C. Electrochemical deposition of platinum interconnects on flexible biocompatible substrates Materials Research Society Symposium Proceedings 1626(2014), ISSN: 02729172.

(1142)Interaction of dislocations with a local defect in an atomic chain with a nonconvex interparticle potential, MalomeD, BA; MILCHEV, A, PHYSICAL REVIEW B Volume: 41 Issue: 7 Pages: 4240-4246 Published: MAR 1 1990

134. Bifurcations of phase portraits of a Singular Nonlinear Equation of the Second Class, Nguetcho, A. S. Tchakoutio; Li, Jibin; Bilbault, J. M., Communications in nonlinear science and numerical simulation Volume: 19 Issue: 8 Pages: 2590-2601 Published: AUG 2014

(1143)Markov I., Trayanov A., Accommodation of misfit in epitaxial interfaces: Discrete Frenkel-Kontorova model with real interatomic forces, 1990, Journal of Physics: Condensed Matter,(33)6965-6980

135. Popov, A.P., Rettori, A., Pini, M.G., Discovery of metastable states in a finite-size classical one-dimensional planar spin chain with competing nearest- and next-nearest-neighbor

exchange couplings, 2014Physical Review B - Condensed Matter and Materials Physics90(13), 134418

136. Patrykiewicz, A., Sokołowski, S., Domain-walls formation in binary nanoscopic finite systems, 2014Condensed Matter Physics17(2), 23605

(1146)Solitary waves in a Frenkel-Kontorova model with nonconvex interactions MILCHEV, A, PHYSICA D Volume: 41 Issue: 2 Pages: 262-274 Published: MAR 1990

137. Bifurcations of phase portraits of a Singular Nonlinear Equation of the Second Class, Nguetcho, A. S. Tchakoutio; Li, Jibin; Bilbault, J. M., Communications in nonlinear science and numerical simulation Volume: 19 Issue: 8 Pages: 2590-2601 Published: AUG 2014

(1185)S.P. Stoylov, Colloid Electro-Optics: Theory, Techniques, Applications, London, 1991, pp. 280.

138. S.A. Klemeshev, M.P. Petrov, A.K. Shalygin, A.V. Noitylov, V.V. Voitylov, Electro-optical effects in disperse systems in strong electric fields of arbitrary shape, Colloids Surf. A: Physicochem. Eng. Aspects 456, 2014, 114-119.
139. B. Erka-Petesic, B. Jean, L. Heux, First experimental evidence of a giant permanent electric-dipole moment in cellulose nanocrystals, EPL 107, 2014, 28006.
140. S. Nishimura, T. Inoue, Electro-optics of plate-like silica particle suspension, Colloids Surf. A: Physicochem. Eng. Aspects 440, 2014, 175-184.
141. C.V. Yerin, Determination of polydispersity of magnetic colloidal nanoparticles by optical methods: Birefringence and light scattering experiments, J. Nano- Electronic Physics 6, 2014, 03033.
142. V. Milkova, Polyelectrolyte/nanoparticle hybrid films on anisometric colloids studied by electro-optics, Colloids Surf. A: Physicochem. Eng. Aspects 455, 2014, 156-163.
143. A.M. Zhivkov, R.P. Hristov, Electric polarizability dispersion of alumina particles with adsorbed carboxymethyl cellulose, RSC Advances 4, 2014, 2715-2728.
144. Карина Митарова, “Моделни нано-контейнери за пренос на аскорбинова киселина”, Дипломна работа за ОС “магистър”, СУ „Св. Климент Охридски” 2014.

(1192)I. Avramov J. CHEM. PHYS. 95(1991)4439 "Influence of disorder on viscosity of undercooled melts" 0021-9606. ISSN(electronic): SSN(printed): 1089-7690

145. Nentwig, T; Kondratiev, A; Yazhenskikh, E; Hack, K; Muller, M, ENERGY & FUELS, 27(11):6469-6476; 10.1021/ef401306d 2014
146. Kozmidis-Petrovic, AF, , Modified angell plot of viscous flow with application to silicate and metallic glass-forming liquids, INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, 5(2):193-205; SI 10.1111/ijag.12062 JUN 2014
147. Kozmidis-Petrović, A. F.(2014). Equations of viscous flow of silicate liquids with different approaches for universality of high temperature viscosity limit. Processing and Application of Ceramics, 8(2), 59-68.

(1211)D.Kashchiev, D.Verdoes, G.M. van Rosmalen, "Induction time and metastability limit in new phase formation",J.Cryst.Growth 110(1991)373

148. V.K.Saw, M.Gudala, G.Udayabhanu, A.Mandal, S.Laik, “Kinetics of methane hydrate formation and its dissociation in presence of non-ionic surfactant Tergitol”, J.Unconvent.Oil Gas Resources 6(2014)54.
149. N.Kubota, M.Kobari, I.Hirasawa, “Effects of detector sensitivity and resolution on induction time reading”, Cryst.Eng.Comm. 16(2014)1103.
150. T.J.Dursch, G.J.Trigub, R.Lujan, J.F.Liu, R.Mukundan, C.J.Radke, A.Z.Weber, “Ice-Crystallization Kinetics in the Catalyst Layer of a Proton-Exchange-Membrane Fuel Cell”, J.Electrochem.Soc. 161(2014)F199.
151. M.Maeki, Y.Teshima, S.Yoshizuka, H.Yamaguchi,K.Yamashita, M.Miyazaki, “Controlling Protein Crystal Nucleation by Droplet-Based Microfluidics”, Chem.Europ.J. 20(2014)1049.

152. H.Wu, M.White, R.T.Berendt, R.Foringer, M.A.Khan, "Integrated process analytical technology approach for nucleation induction time measurement and nucleation mechanism assessment for a dynamic multicomponent pharmaceutical antisolvent crystallization system", *Industr.Eng.Chem.Res.* 53(2014)1688.
153. Y.Wang, Q.Wu, G.Jiang, "Effect of temperature gradient on process of methane hydrate formation in nonsaturated coarse sand", *J.Central South Univ. (Sci.Technol.) (China)* 45 (2014) 507.
154. . A.Ikni, B.Clair, P.Scouflaire, S.Veesler, J.M.Gillet, N.El Hassan, F.Dumas, A.Spasojevic-de Bire, "Experimental demonstration of the carbamazepine crystallization from Non-Photochemical LASER-Induced Nucleation in acetonitrile and methanol", *Cryst.Growth Des.* 14(2014)3286.
155. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the induction time or metastable zone width data based on turbidity measurements", *Cryst.Eng.Comm.* 16(2014)9743.
156. G.Wang, Y.Wang, Y.Ma, H.Hao, H.Wang, J.Zhang, "Concomitant Crystallization of Cefuroxime Acid and Its Acetonitrile Solvate in Acetonitrile and Water Solution", *Industr.Eng.Chem.Res.* 53(2014)14028.
157. 61. J.Liu, M.Svard, A.C.Rasmuson, "Influence of Agitation and Fluid Shear on Nucleation of m-Hydroxybenzoic Acid Polymorphs", *Cryst.Growth Des.* 14(2014)5521.
158. M.Lenka, D.Sarkar, "Determination of metastable zone width, induction period and primary nucleation kinetics for cooling crystallization of L-asparagine monohydrate", *J. Cryst. Growth* 408(2014)85.
159. X.F.Lv, J.Gong, W.Q.Li, B.H.Shi, D.Yu, H.H.Wu, "Experimental study on natural-gas-hydrate-slurry flow", *SPE Journal* 19(2014)206.
160. B.Clair, A.Ikni, W.Li, P.Scouflaire, V.Quemener, A.Spasojevic-De Bire, "A new experimental setup for high-throughput controlled non-photochemical laser-induced nucleation: Application to glycine crystallization", *J.Appl.Crystallogr.* 47(2014)1252.
161. A.Z.Weber, R.L.Borup, R.M.Darling, P.K.Das, T.J.Dursch, W.Gu, D.Harvey, A.Kusoglu,S.Litster, M.M.Mench, R.Mukundan, J.P.Owejan, J.G.Pharaoh, M.Secanell, I.V.Zenyuk, "A Critical Review of Modeling Transport Phenomena in Polymer-Electrolyte Fuel Cells", 161(2014)F1254.

(1228)A.Milchev, Electrochemical phase formation on a foreign substrate - basic theoretical concepts, and some experimental results, *Contemporary Physics*, 32(1991)321-332.

162. Frank, A.C., Sumodjo, P.T.A., Electrodeposition of cobalt from citrate containing baths , *Electrochimica Acta* 132(2014)75-82, ISSN: 00134686.

(1244)Stoyanov, Stoyan, Electromigration induced step bunching on Si surfaces. How does it depend on the temperature and heating current direction?, *Japanese Journal of Applied Physics, Part 1: Regular Papers and Short Notes and Review Papers*, 30(1)(1991)1-6.

163. Patrone, P.N., Margetis, D., Connection of kinetic Monte Carlo model for surfaces to one-step flow theory in 1+1 dimensions, *Multiscale Modeling and Simulation*12(1)(2014)364-395.
164. Cheng, J.-Y., Ng, P.-K., Fisher, B., Lilley, C.M., Electric field and surface step assisted Cu₃Si nanowire growth by reactive deposition epitaxy, 14th IEEE International Conference on Nanotechnology, IEEE-NANO 2014, 6968103,(2014)478-481.

(1248)V. Tsakova and A. Milchev Nucleation of silver on a polyaniline coated platinum electrode, *Electrochim. Acta* ,36,1991,1151-1155

165. V.-T.Gruia, A. Ispas, M. Wilke, I. Efimov, A. Bund, Application of acoustic impedance method to monitoring of sensors: Metal deposition on viscoelastic polymer substrate, *Electrochimica Acta*, 118 , 2014, 88-91.

(1249)V.Tsakova and A.Milchev, Electrochemical formation and stability of polyaniline films Electrochim. Acta, 36,1991,1579-1583.

166. N. Maouche, B. Nessark, S. Chelli, S. Aeiya, I. Bakas, Electrosynthesis, Characterization and Electrocatalytic Behaviour of Organic-Metal Thin-Films Based on 2,2'-Bithiophene-5-carboxylic Acid and Metal Ions, American Journal of Analytical Chemistry, 5 , 2014, 165-172.
167. J.R. Ye, S. Zhai, Z.J. Gu, N. Wang, H.Wang, Q.Shen, Electro-synthesis and characterization of polyaniline nanofibers, Materials Letters,132, 2014,377-379.
168. M.M. Gvozdenović, B.Z. Jugović, J.S. Stevanović, B.N. Grgur, Electrochemical synthesis of electroconducting polymers, Hemijska industrija 2014, DOI: 10.2298/HEMIND 131122008G.
169. R. Holze, Y.P. Wu, Intrinsically conducting polymers in electrochemical energy technology: Trends and progress, Electrochim. Acta, 122, 2014, 93-107.
170. A. Banu, M. Marcu, E. Alexandrescu, E.M. Anghel, Electrochemical deposition and characterization of polypyrrole coatings doped with nickel cobalt oxide for environmental applications, J. Solid State Electrochem. 18, 2014, 2661-2671.

(1265)S. Armyanov, G. Sotirova-Chakarova, Hydrogen Desorption and Internal Stress in Nickel Coatings, Obtained by Periodic Electrodeposition, Journal of the Electrochemical Society, 139(1992)3454-3457

171. F. Cai, C. Jiang, Influences of Al particles on the microstructure and property of electrodeposited Ni-Al composite coatings, Appl. Surf. Sci., 292, 2014, 620-625.
172. N. Shakibi Nia, J. Creus, X. Feaugas, C. Savall, The effect of tungsten addition on metallurgical state and solute content in nanocrystalline electrodeposited nickel, J. Alloys Compounds, 609, 296-301(2014).

(1271)K. Bade, V. Tsakova and J.W. Schultze)Nucleation, growth and branching of polyaniline from microelectrode experiments, Electrochim. Acta, 37, 1992, 2255-2261.

173. O.L. Gribkova, A.A. Nekrasov, V.F. Ivanov, V.I. Zolotarevsky, A.V.Vannikov, Templating effect of polymeric sulfonic acids on electropolymerization of aniline, Electrochimica Acta, 122 , 2014, 150-158.
174. Zh. Tong, H.M. Lv, J.P. Zhao, Y. Li, Near-infrared and multicolor electrochromic device based on polyaniline derivative, Chinese J. Polymer Sci., 32, 2014,1040-1051.
175. A. Ganash, Effect of current density on the corrosion protection of poly(o-toluidine)-coated stainless steel, Int. J. Electrochem. Sci., 9 , 2014, 4000-4013.
176. A.A. Nekrasov, O.L. Gribkova, V.I. Zolotarevskii, A.A. Isakova, V.F. Ivanov, A.V. Vannikov, Effect of polymer sulfoacids with varying chain rigidity on the nucleation of their interpolymer complexes with polyaniline during electropolymerization on highly orientated pyrolytic graphite, Russian J. Electrochem. 50(2014)1105-1117.
177. R. Holze, Y.P. Wu, Intrinsically conducting polymers in electrochemical energy technology: Trends and progress, Electrochim. Acta, 122, 2014, 93-107.

(1275)R. Cohen, D. Exerowa, T. Kolarov, T. Yamanaka, V.M. Muller, Thickness transitions in lysolecithin foam films, Colloids and Surfaces 65(1992)201-209.

178. J.L. Toca-Herrera, N. Krasteva, H.J. Müller, R. Krastev, Interactions in lipid stabilised foam films, Adv Colloid Interface Sci 207, 2014, 93-106.

(1280)D.Exerowa, D.Kashchiev, D.Platikanov, "Stability and permeability of amphiphile bilayers", Adv.Colloid Interface Sci. 40(1992)201

179. J.L.Toca-Herrera, N.Krasteva, H.J.Muller, R.Krastev, "Interactions in lipid stabilised foam films", Adv.Coll.Interf.Sci. 207(2014)93.

180. F.Scheffold, J.N.Wilking, J.Haberko, F.Cardinaux, T.G.Mason, "The jamming elasticity of emulsions stabilized by ionic surfactants", *Soft Matter* 10(2014)5040.
181. V.O.Pauchard, J.P.Rane, S.Zarkar, A.Couzis, S.Banerjee, "Long term adsorption kinetics of asphaltenes at the oil-water interface: a random sequential adsorption perspective.", *Langmuir* 30(2014)8381.
182. V.O.Pauchard, J.P.Rane, S.Banerjee, "Asphaltene-laden interfaces form soft glassy layers in contraction experiments: a mechanism for coalescence blocking", *Langmuir* 30(2014)12795.
183. E.Rio, A.L.Bianche, "Thermodynamic and Mechanical Timescales Involved in Foam Film Rupture and Liquid Foam Coalescence", *Chem.Phys.Chem.* 15(2014)3692.
184. L.Saulnier, L.Champougny, G.Bastien, F.Restagno, D.Langevin, E.Rio, "A study of generation and rupture of soap films", *Soft Matter* 10(2014)2899.
185. V.Pauchard, T.Roy, "Blockage of coalescence of water droplets in asphaltenes solutions: A jamming perspective", *Colloids Surfaces A* 443(2014)410.
- (1281)D. Exerowa, A. Nikolova, Phase transitions in phospholipid foam bilayers, *Langmuir*, 8 (1992) 3102-3108.**
186. S.Y. Leong, L.K. Richter, D. Knorr, I. Oey, Feasibility of using pulsed electric field processing to inactivate enzymes and reduce the cutting force of carrot (*Daucus carota* var. Nantes), *Innovative Food Sci. Emerg. Technol.* 26, 2014, 159-167.
- (1286)I.Iliev, P.Atanasov, S.Gamburzev, A.Kaisheva, V.Tonchev, Transient Response of Electrochemical Biosensors with Assymetrical Sandwich Membranes, *Sensors and Actuators B8*, 1(1992)65 - 72.**
187. Anitha, A., Anitha, S., Rajendran, L., A Kinetic Model for Amperometric Biosensor at Mixed Oxidase Enzyme, *International Journal of Electrochemical Science* 9, 2014, 990 - 1002.
- (1314)D. Stoychev, I. Vitanova, R. Buyukliev, N. Petkova, I. Popova, I. Pojarliev, Effect of the structure of aromatic disulphides on some physico-mechanical properties of electrodeposited copper coatings, *Journal of applied electrochemistry*, 22, 10(1/992)987-990, ISSN: 0021-891X(Print)1572-8838(Online)**
188. Arvidsson, L.; VPdiagnose, Vasteras, Sweden; Haugli, J.P.; Ravnemyhr, E.; Tandstad, B., A Reason for "Corrosive Sulfur" Failures, *Dielectric Liquids(ICDL)*,(2014)1 – 7 ISSN: 2153-3725.
189. Jozefina Katić, Mirjana Metikoš-Huković, Ranko Babić, Synthesis and characterization of calcium phosphate coatings on Nitinol, *Journal of Applied Electrochemistry*, 44, 1(2014)87-96, ISSN: 0021-891X(Print)1572-8838(Online)
- (1324)M.C. van der Leeden, D.Kashchiev, G.M. van Rosmalen, "Precipitation of barium sulphate: induction time and the effect of an additive on nucleation and growth", *J.Colloid Interface Sci.* 152(1992)338**
190. H.Wu, M.White, R.T.Berendt, R.Foringer, M.A.Khan, "Integrated process analytical technology approach for nucleation induction time measurement and nucleation mechanism assessment for a dynamic multicomponent pharmaceutical antisolvent crystallization system", *Industr.Eng.Chem.Res.* 53(2014)1688.
191. C.C.Su, R.L.Reano, M.L.P.Dalida, M.C.Lu, "Barium recovery by crystallization in a fluidized-bed reactor: Effects of pH, Ba/P molar ratio and seed", *Chemosphere* 105(2014)100.
192. K.Ma, Y.Zhang, H.Kan, L.Cheng, L.Luo, Q.Su, J.Gao, Y.Gao, J.Zhang, "Thermodynamic and Kinetic Investigation on the Crucial Factors Affecting Adefovir Dipivoxil-Saccharin Cocrystallization", *Pharmaceut.Res.* 31(2014)1766.
193. M.Manteghian, A.Faravar, "Induction time of induced crystallization of potassium chloride nanoparticles", *J.Chem.Eng.Res.Studies* 1(2014)3.

194. C.Yan, A.T.Kan, F.Zhang, Y.Liu, M.B.Tomson, R.C.Tomson, "Systematic study of barite nucleation and inhibition with various polymeric scale inhibitors by novel laser apparatus", in: "SPE International Conference and Exhibition on Oilfield Scale 2014", Aberdeen, 2014, p. 529.
195. E.Akyol, O.Aras, M.Oner, "Control of barium sulfate crystallization in the presence of additives", *Desal.Water Treat.* 52(2014)5965.

(1326)D.Verdoes, D.Kashchiev, G.M. van Rosmalen, "Determination of nucleation and growth rates from induction times in seeded and unseeded precipitation of calcium carbonate", *J.Cryst.Growth* 118(1992)401

196. R.M.Wagterveld, M.Yu, H.Miedema, G.J.Witkamp, "Polymorphic change from vaterite to aragonite under influence of sulfate: the "morning star" habit", *J.Cryst.Growth* 387(2014)29.
197. Q.Li, A.Fernandez-Martinez, B.Lee, G.A.Waychunas, Y-S.Jun, "Interfacial Energies for Heterogeneous Nucleation of Calcium Carbonate on Mica and Quartz", *Environ.Sci.Technol.* 48(2014)5745.
198. G.Wang, Y.Wang, Y.Ma, H.Hao, H.Wang, J.Zhang, "Concomitant Crystallization of Cefuroxime Acid and Its Acetonitrile Solvate in Acetonitrile and Water Solution", *Industr.Eng.Chem.Res.* 53(2014)14028.
199. M.Tariq, D.Rooney, E.Othman, S.Aparicio, M.Atilhan, M.Khraisheh, "Gas Hydrate Inhibition: a review of the role of ionic liquids", *Industr.Eng.Chem.Res.* 53(2014)17855.

(1351)I. Avramov, A. Milchev, P. Argyrakis, Diffusion In A Random Medium: A Monte Carlo Study *Phys. Rev. E* 47 (1993)2303 ISSN 1092-0145

200. Mitran, TL; Melchert, O; Hartmann, AK, *PHYSICAL REVIEW E*, 88(6):10.1103/ Phys Rev E.88.062101 2014

(1353)A. Dobрева, I. Gutzow, Activity of substrates in the catalyzed nucleation of glass-forming melts. I. Theory, *J. Non-Cryst. Solids* 162, 1-2, 1993, 1-12.

201. M. Li, G. Li, Z. Zhang, X. Dai, K. Mai, Enhanced β -crystallization in polypropylene random copolymer with a supported β -nucleating agent, *Thermochim. Acta* 598, 2014, 36-44.
202. D.G. Papageorgiou, K. Chrissafis, E. Pavlidou, E.A. Deliyanni, G.Z. Papageorgiou, Z. Terzopoulou, D.N. Bikiaris, Effect of nanofiller's size and shape on the solid state microstructure and thermal properties of poly(butylene succinate)nanocomposites, *Thermochim. Acta* 590, 2014, 181-190.
203. D.G. Papageorgiou, L. Tzounis, G.Z. Papageorgiou, D.N. Bikiaris, K. Chrissafis, β -nucleated propylene-ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties, *Polymer(UK)*55, 16, 2014, 3758-3769.
204. M. Naffakh, C. Marco, G. Ellis, Development of novel melt-processable biopolymer nanocomposites based on poly(l-lactic acid)and WS2 inorganic nanotubes, *Cryst. Eng. Comm.* 16, 23, 2014, 5062-5072.
205. G.S. Deshmukh, D.R. Peshwe, S.U. Pathak, J.D. Ekhe, Nonisothermal crystallization kinetics and melting behavior of poly(butylene terephthalate)(PBT)composites based on different types of functional fillers, *Thermochim. Acta* 581, 2014, 41-53.
206. M. Naffakh, C. Marco, G. Ellis, Inorganic WS2 nanotubes that improve the crystallization behavior of poly(3-hydroxybutyrate), *Cryst. Eng. Comm.* 16, 6, 2014, 1126-1135.
207. G.Z. Papageorgiou, E. Karandrea, D. Giliopoulos, D.G. Papageorgiou, A. Ladavos, A. Katerinopoulou, D.S. Achilias, K.S. Triantafyllidis, D.N. Bikiaris, Effect of clay structure and type of organomodifier on the thermal properties of poly(ethylene terephthalate)based nanocomposites, *Thermochim. Acta* 576, 2014, 84-96.
208. G.Z. Papageorgiou, D.G. Papageorgiou, K. Chrissafis, D. Bikiaris, J. Will, A. Hoppe, J.A. Roether, A.R. Boccaccini, Crystallization and melting behavior of poly(butylene succinate)nanocomposites containing silica-nanotubes and strontium hydroxyapatite nanorods, *Indust. Eng. Chem. Res.* 53, 2, 2014, 678-692.

209. Z. Su, L. Fang, M. Lin, X. Chen, M. Luo, X. Li, Heterogeneous nucleation effect of modified carbon black on polylactic acid crystallization, *Shiyou Huagong/Petrochem. Technol.* 43, 3, 2014, 331-336.
210. X.-X. Cao, S.-H. Luo, Y. Wang, X.-F. He, Nonisothermal crystallization kinetics of polypropylene nano-diamond as fillers, *Hangkong Cailiao Xuebao/J. Aeronaut. Mater.* 34, 5, 2014, 55-62.
211. L. Guo, F. Chen, Y. Zhou, X. Liu, W. Xu, The influence of interface and thermal conductivity of filler on the nonisothermal crystallization kinetics of polypropylene/natural protein fiber composites, *Composites Part B: Eng.* 68, 2014, 300-309.
212. H.F. Naguib, M.S.A Aziz, G.R. Saad, Effect of Organo-Modified Montmorillonite on Thermal Properties of Bacterial Poly(3-hydroxybutyrate), *Polymer - Plastics Technol. Eng.* 53, 1, 2014, 90-96.

(1354)A. Dobrev, I. Gutzow, Activity of substrates in the catalyzed nucleation of glass-forming melts. II. Experimental evidence, *J. Non-Cryst. Solids* 162, 1-2, 1993, 13-25.

213. M. Li, G. Li, Z. Zhang, X. Dai, K. Mai, Enhanced β -crystallization in polypropylene random copolymer with a supported β -nucleating agent, *Thermochim. Acta* 598, 2014, 36-44.
214. D.A. D'Amico, V.P. Cyras, L.B. Manfredi, Non-isothermal crystallization kinetics from the melt of nanocomposites based on poly(3-hydroxybutyrate) and modified clays, *Thermochim. Acta* 594, 2014, 80-88.
215. D.G. Papageorgiou, K. Chrissafis, E. Pavlidou, E.A. Deliyanni, G.Z. Papageorgiou, Z. Terzopoulou, D.N. Bikiaris, Effect of nanofiller's size and shape on the solid state microstructure and thermal properties of poly(butylene succinate) nanocomposites *Thermochim. Acta* 590, 2014, 181-190.
216. D.G. Papageorgiou, L. Tzounis, G.Z. Papageorgiou, D.N. Bikiaris, K. Chrissafis, β -nucleated propylene-ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties, *Polymer(UK)* 55, 16, 2014, 3758-3769.
217. H. Zhao, Y. Bian, Y. Li, C. Han, Q. Dong, L. Dong, Y. Gao, Enhancing cold crystallization of poly(l-lactide) by a montmorillonitic substrate favoring nucleation *Thermochim. Acta* 588, 2014, 47-56.
218. M. Naffakh, C. Marco, G. Ellis, Development of novel melt-processable biopolymer nanocomposites based on poly(l-lactic acid) and WS₂ inorganic nanotubes, *Cryst. Eng. Comm.* 16, 23, 2014, 5062-5072.
219. G.S. Deshmukh, D.R. Peshwe, S.U. Pathak, J.D. Ekhe, Nonisothermal crystallization kinetics and melting behavior of poly(butylene terephthalate)(PBT) composites based on different types of functional fillers, *Thermochim. Acta* 581, 2014, 41-53.
220. M. Naffakh, C. Marco, G. Ellis, Inorganic WS₂ nanotubes that improve the crystallization behavior of poly(3-hydroxybutyrate), *Cryst. Eng. Comm.* 16, 6, 2014, 1126-1135.
221. G.Z. Papageorgiou, E. Karandrea, D. Giliopoulos, D.G. Papageorgiou, A. Ladavos, A. Katerinopoulou, D.S. Achilias, K.S. Triantafyllidis, D.N. Bikiaris, Effect of clay structure and type of organomodifier on the thermal properties of poly(ethylene terephthalate) based nanocomposites, *Thermochim. Acta* 576, 2014, 84-96.
222. G.Z. Papageorgiou, D.G. Papageorgiou, K. Chrissafis, D. Bikiaris, J. Will, A. Hoppe, J.A. Roether, A.R. Boccaccini, Crystallization and melting behavior of poly(butylene succinate) nanocomposites containing silica-nanotubes and strontium hydroxyapatite nanorods, *Indust. Eng. Chem. Res.* 53, 2, 2014, 678-692.
223. Z. Su, L. Fang, M. Lin, X. Chen, M. Luo, X. Li, Heterogeneous nucleation effect of modified carbon black on polylactic acid crystallization, *Shiyou Huagong/Petrochem. Technol.* 43, 3, 2014, 331-336.
224. X.-X. Cao, S.-H. Luo, Y. Wang, X.-F. He, Nonisothermal crystallization kinetics of polypropylene nano-diamond as fillers, *Hangkong Cailiao Xuebao/J. Aeronaut. Mater.* 34, 5, 2014, 55-62.

225. L. Guo, F. Chen, Y. Zhou, X. Liu, W. Xu, The influence of interface and thermal conductivity of filler on the nonisothermal crystallization kinetics of polypropylene/natural protein fiber composites, *Composites Part B: Eng.* 68, 2014, 300-309.
- (1356) 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-medial. GERROFF, I; MILCHEV, A; BINDER, K; W. Paul, JOURNAL OF CHEMICAL PHYSICS Volume: 98 Issue: 8 Pages: 6526-6539 Published: APR 15 1993**
226. D.A. Meshkov, V.A. Ivanov, S.K. Nechaev, V.A. Avetisov, Relaxation dynamics of a crumpled globule. *Russ.J.Phys.Chem.B* 8(2014)518-523.
227. L. Li, Z. Li, C. Fu, Z. Sun, L. An, Computer simulation of micellization for ring-like block copolymers. *Gaodeng Xuexiao Huaxue Xuebao* 35(2014)168-174.
228. V.A. Avetisov, V.A. Ivanov, D.A. Meshkov, S.K. Nechaev, Fractal globules: A new approach to artificial molecular machines. *Biophys.J.* 107(2014)2361-2368
- (1359) I. Gutzow, A. Dobрева, J. Schmelzer, Rheology of non-Newtonian glass-forming melts - Part II Kinetics of relaxation and retardation, J. Mater. Sci. 28, 4, 1993, 901-908.**
229. A.I. Barzic, R.D. Rusu, I. Stoica, M.D. Damaceanu, Chain flexibility versus molecular entanglement response to rubbing deformation in designing poly(oxadiazole-naphthylimide)s as liquid crystal orientation layers, *J. Mater. Sci.* 49, 8, 2014, 3080-3098.
- (1365) D.Kashchiev, A.Firoozabadi, "Kinetics of the initial stage of isothermal gas phase formation", J.Chem.Phys. 98(1993)4690**
230. V. Agarwal, B. Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.
231. M.E. Tawfik, F.J. Diez, "On the relation between onset of bubble nucleation and gas supersaturation concentration", *Electrochim.Acta* 146(2014)792.
- (1366) K. Khristov, D. Exerowa, P.M. Kruglyakov, Multilayer foam films and foams from surfactant solutions with high solubilizing ability, Colloids and Surfaces A: Physicochemical and Engineering Aspects 78(1993)221-227.**
232. E. Rio, A.L. Biance, Thermodynamic and mechanical timescales involved in foam film rupture and liquid foam coalescence, *ChemPhysChem* 15, 2014, 3692-3707.
- (1372) A. Milchev, E. Michailova, R. Lacmann and B. Mueller-Zuelow, Electrochemical growth of single metal and alloy clusters Part I. Galvanostatic conditions, Electrochim. Acta, 38(1993)535-539, ISSN: 00134686.**
233. Liu, F., Han, C., Jiang, L., Li, J., Liu, Y., Dynamic analysis on metal selenide electrodeposition, *Journal of Solid State Electrochemistry* 18(7)(2014)1833-1845
- (1373) A. Milchev, W. Kruijt, M. Sluyters-Rehbach, J.H. Sluyters, Probabilistic analysis of the distances between clusters randomly distributed on the electrode surface, J. Electroanal. Chem., 350(1993)89-95, ISSN: 00220728.**
234. Desai, D., Turney, D.E., Anantharaman, B., Steingart, D.A., Banerjee, S., Morphological evolution of nanocluster aggregates and single crystals in alkaline zinc electrodeposition, *J. PhysChem C*, 118(16)(2014)8656-8666
- (1374) Phase-transitions in polydisperse polymer melts, MILCHEV, A, POLYMER Volume: 34 Issue: 2 Pages: 362-368 Published: 1993**
235. Decreasing Polymer Flexibility Improves Wetting and Dispersion of Polymer-Grafted Particles in a Chemically Identical Polymer Matrix, Lin, Brandon; Martin, Tyler B.;

(1375)A.Milchev, W.S.Kruijt, M.Sluyters-Rehbach and J.H.Sluyters, Distribution of the nucleation rate in the vicinity of a growing spherical cluster Part I. Theory and simulation results, J.Electroanal.Chem., 362(1993)21-31, ISSN: 00220728.

236. Li, L., Jahanian, P., Mao, G., Electrocrystallization of tetrathiafulvalene charge-transfer salt nanorods on gold nanoparticle seeds, J.Phys.Chem., C 118(32)(2014)18771-18782; ISSN:19327447

(1376)Off-lattice monte-carlo simulation of dilute and concentrated polymer-solutions under theta conditions,MILCHEV, A; PAUL, W; BINDER, K JOURNAL OF CHEMICAL PHYSICS Volume: 99 Issue: 6 Pages: 4786-4798 Published: SEP 15 1993

237. Thermodynamic and conformational insights into the phase transition of a single flexible homopolymer chain using replica exchange Monte Carlo method, Wang, Lei; Li, Ningning; Xiao, Shiyang; H. Liang, JOURNAL OF MOLECULAR MODELING Volume: 20 Issue: 7 Article Number: 2296 Published: JUL 2014
238. Theory of Polymer Chains in Poor Solvent: Single-Chain Structure, Solution Thermodynamics, and Theta Point, Wang, Rui; Wang, Zhen-Gang, MACROMOLECULES Volume: 47 Issue: 12 Pages: 4094-4102 Published: JUN 24 2014
239. Synthesis and Characterization of Novel Polymer-Metal Complexes of Cu(II), Ni(II)and Co(II)Derived from Poly(4,5-dihydroxy-2,7-naphthalene Disulfonic Acid)Tuncel, Mehmet, ASIAN JOURNAL OF CHEMISTRY Volume: 26 Issue: 7 Pages: 2147-2152 Part: A Published: APR 2014
240. V.A. Avetisov, V.A. Ivanov, D.A. Meshkov, S.K. Nechaev, Fractal globules: A new approach to artificial molecular machines. Biophys.J. 107(2014)2361-2368.

(1390)J.Schmelzer, R.Pascova, J.Moeller, I.Gutzow, Surface induced devitrification of glasses: The influence of elastic strains, Journal of Non-Crystalline Solids 162(1993)26-39.

241. M. Hasebe, D. Musumeci, C. T. Powell, T. Cai, E. Gunn, L. Zhu, and L. Yu, Fast Surface crystal growth on molecular glasses and its termination by the onset of fluidity, J. Phys. Chem.B118, 2014, 7638-7646.

(1395)V. Tsakova, A. MilchevandJ.W. Schultze, Growth of polyaniline films under pulse potentiostatic conditions, J. Electroanal. Chem., 346 ,1993, 85-97.

242. P. R. Das, A. Gräfenstein, D. Ledwoch, O. Osters, L. Komsiyiska, G. Wittstock, Conducting Polymers as Binder Additives for Cathodes in Li Ion Battery, ECS Trans. 63, 2014, 31-43.
243. R. Holze, Y.P. Wu, Intrinsically conducting polymers in electrochemical energy technology: Trends and progress, Electrochim. Acta, 122, 2014, 93-107.

(1396)M.C. van der Leeden, D.Kashchiev, G.M. van Rosmalen, "Effect of additives on nucleation rate, crystal growth rate and induction time in precipitation", J.Cryst.Growth 130(1993)221

244. H.Chauhan, A.Kuldipkumar, T.Barder, A.Medek, C.H.Gu, E.Atef, "Correlation of Inhibitory Effects of Polymers on Indomethacin Precipitation in Solution and Amorphous Solid Crystallization Based on Molecular Interaction", Pharmaceut.Res. 31(2014)500.

(1418)J.C.Jansen, D.Kashchiev, A.Erdem-Senatalar, "Preparation of coatings of molecular sieve crystals for catalysis and separation", in: "Advanced Zeolite Science and Applications", Eds. J.C.Jansen, Elsevier, Amsterdam, 1994, p. 215

245. M.Tatlier, G.Munz, G.Fueldner, S.Henninger, "Effect of zeolite A coating thickness on adsorption kinetics for heat pump applications", *Micropor.Mesopor.Materials* 193(2014)115.
246. S.Mandal, H.L.Williams, H.K.Hunt, "Techniques for Microscale Patterning of Zeolite-Based Thin Films", *Micropor.Mesopor.Materials* 203(2014)245.

(1423)I. Avramov J. Mater. Sci. Letters 13(1994)1367 "VISCOSITY OF UNDERCOOLED MELTS"

247. Y. Morizet, Q. Alech, Estimation of viscosities in the CaO-SiO₂ and CaO-Al₂O₃-SiO₂ melt systems using high temperature hot stage microscopy. *55(2014)41-48*.

(1430)R. Cohen, D. Exerowa, Electrosurface properties of lysophosphatidylcholine foam films: Effect of pH and Ca²⁺, Colloids and Surfaces A: Physicochemical and Engineering Aspects 85(1994)271-278.

248. T. Peng, T.M. Chang, Molecular processes of ion effects on aqueous nanofilm rupture, *J Mol Liq* 193, 2014, 139-151.

(1437)I. Gutzow, R. Pascova, A. Karamanov, J. Schmelzer, The kinetics of surface induced sinter crystallization and the formation of glassceramics materials, Journal of Material Sciences 33(1998)5265-5273.

249. M.A.Binhussain, M.Marangoni, E.Bernardo, P.Colombo, Sintered and glazed glass-ceramics from natural and waste raw materials, *Ceram. Int.*40, 2014, 3543-3551.
250. I.Denry, J. A. Holloway, Low temperature sintering of difluoroapatite glass-ceramics, *Dent.Mater.*30,2014, 112-121.
251. S.Fest, S.Reinsch and R.Mueller, Milling, sintering and crystallization of 11BaO-25CaO-64SiO₂ glass powder, *Int.J.Appl.GlassSci.* 5,2014,236-247.
252. R. C. Breneman and J. W. Halloran, Kinetics of cristobalite formation in sintered silica, *J. Am.Ceram.Soc.*97,2014,2272-2278.
253. M.Marangoni, I.Ponsot, R.Kuusik, E.Bernardo, Strong and chemically inert sinter crystallised glass-ceramics based on Estonian oil shale ash, *Adv.Appl. Ceram.* 113,2014,120-128.
254. R. C. Breneman, Phase changes in silica and their impact on mechanical properties in 3-d printed investment casting molds, PhD Thesis, University of Michigan, 2014.

(1439)A. Karamanov, I. Gutzow, I. Penkov, J. Andreev, B. Bogdanov, Diopside marble-like sintered glass-ceramics, Glastechnische Berichte 67, 7, 1994, 202-206.

266. M.A. Binhussain, E. Hamzawy, Synthetic White Marble-Like Material Produced from Natural Raw Materials, *Arab. J. Sci. Eng.* 39, 1, 2014, 453-459.

(1442)D.Kashchiev, D.Clausse, C.Jolivet-Dalmazzone, "Crystallization and critical supercooling of disperse liquids", J.Colloid Interface Sci. 165(1994)148

255. I.Rodriguez-Ruiz, S.Veesler, J.Gomez-Morales, J.M.Delgado-Lopez, O.Grauby, Z.Hammadi, N.Candoni, J.M.Garcia-Ruiz, "Transient calcium carbonate hexahydrate (Ikaite) nucleated and stabilized in confined nano- and picovolumes", *Crys.Growth Des.* 14(2014)792.

(1445)N. Krasteva, V. Fotty, S. Armyanov, Thermal Stability of Ni-P and Ni-Cu-P Amorphous Alloys, Journal of the Electrochemical Society, 141(1994)2864-2867

256. K. Theeratatpong, S. Danchaivijit, Y. Boonyongmaneerat, Effects of Co content and heat treatment on mechanical properties of electrolessly deposited Ni-Co-P alloys, *Surf. Interf. Anal.*, 46,(4), 2014, 276–282.
257. B. Hui, J.Li, Q. Zhao, T. Liang, L. Wang, Effect of CuSO₄ Content in the Plating Bath on the Properties of Composites from Electroless Plating of Ni-Cu-P on Birch Veneer, *BioResources*, 9(2)2014, 2949-2959.
258. J. Ruffini, L. A. Hamilton, D. Buechel-rimmel, J. M. Laplante, A. Schaffer, F. K. Lowes, Electroless coated disks for high temperature applications and methods of making the same, United States Patent 8828482(2014).
259. S. Roy, P. Sahoo, Optimization of Wear of Electroless Ni-P-Cu Coating Using Artificial Bee Colony Algorithm, *Procedia Technology*, 14, 320-327(2014).
- (1453)E. Michailova, M. Peykova, D. Stoychev, A. Milchev, On the role of surface active agents in the nucleation step of metal electrodeposition on a foreign substrate, Journal of Electroanalytical Chemistry, 366, 1(1994)195-202, ISSN: 1572-6657**
260. Julyana Ribeiro Garcia; Dalva Cristina Baptista do Lago; Lilian Ferreira de Senna, Electrodeposition of Cobalt Rich Zn-Co alloy Coatings from Citrate Bath, *Materials Research*, 17, 4(2014)947- 957 ISSN: 1516-1439
- (1457)Polymer-chains confined into tubes with attractive walls - a monte-carlo simulation, Milchev, a; Paul, w; Binder, k, Macromolecular theory and simulations, Volume: 3 Issue: 2 Pages: 305-323 Published: MAR 1994**
261. Localization and stretching of polymer chains at the junction of two surfaces
Patra, Tarak K.; Singh, Jayant K., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140
Issue: 20 Article Number: 204909 Published: MAY 28 2014
262. Conformational transitions of macromolecules in an eluent flow and their manifestation in the chromatography of polymers, Kurganov, A. A.; Kanateva, A. Yu; Orekhov, V. A., *RUSSIAN CHEMICAL REVIEWS* Volume: 83 Issue: 7 Pages: 638-656 Published: 2014
- (1461)L. Mirkova, N. Petkova, I. Popova, St. Rashkov, The effect of some surface active additives upon the quality of cathodic copper deposits during the electro-refining process, Hydrometallurgy, 36(2)(1994)201-213.**
263. S. Acharya, Copper refining electrolyte and slime processing - Emerging techniques, *Advanced Materials Research*, 828(2014)93-115.
- (1462)L. Mirkova, St. Rashkov, Anodic behaviour of copper during electrorefining using a rotating ring-disc electrode, Journal of Applied Electrochemistry, 24(5)(1994)420-425.**
264. S. Acharya, Copper refining electrolyte and slime processing - Emerging techniques, *Advanced Materials Research*, 828(2014)93-115.
- (1472)A. Nikolova, D. Exerowa, Z. Lalchev, L. Tsonev, Thermal Transitions in Dimyristoylphosphatidylcholine Foam Bilayers, European Biophysics Journal 23 (1994) 145-152.**
265. J.L. Toca-Herrera, N. Krasteva, H.J. Müller, R. Krastev, Interactions in lipid stabilised foam films, *Adv Colloid Interface Sci* 207, 2014, 93-106.
- (1475)D.W.Oxtoby, D.Kashchiev, "A general relation between the nucleation work and the size of the nucleus in multicomponent nucleation", J.Chem.Phys. 100(1994)7665**
266. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.

267. A.McPherson, Y.G.Kuznetsov, "Mechanisms, kinetics, impurities and defects: consequences in macromolecular crystallization", *Acta Crystallographica F* 70(2014)384.
268. F.Riccobono, S.Schobesberger, C.E.Scott, J.Dommen, "Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles", *Science* 344(2014)717.
269. W.Xu, Z.Lan, B.Peng, R.Wen, X.Ma, "Evolution of transient cluster/droplet size distribution in heterogeneous nucleation process", *RSC Advances* 4(2014)31692.
270. A.Kurten, T.Jokinen, M.Simon, M.Sipila, N Sarnela, "Neutral molecular cluster formation of sulfuric acid-dimethylamine observed in real time under atmospheric conditions", *Proc.Natl.Acad.Sci.USA* 111(2014)15019.
271. K.Obara, H.Ohmura, C.Kato, H.Yano, O.Ishikawa, T.Hata, "Development of a fiber-optic probe hydrophone for a cryogenic liquid", *J.Low Temp.Phys.* 175(2014)464.

(1487)V. Stoyanova, D. Kashchiev, T.Kupenova, Freezing of water droplets seeded with atmospheric aerosols and ice nucleation activity of the aerosols, *J. Aerosol Sci.*, 25 (1994)867–877.

272. G. Vali, Interpretation of freezing nucleation experiments: singular and stochastic; sites and surfaces, *Atmos. Chem. Phys. Discuss.* 14, 2014, 1711-1760.
273. Nenes, B. Murray, A. Bougiatioti, Mineral Dust and its Microphysical Interactions with Clouds, Chapter 12, in *Mineral dust (A key player in the earth system)*, Eds. P. Knippertz, J.-B.W. Stuut, Springer, 2014, 287-325.

(1525)C. de Beauvais, D. Rouxel, M. Michailov et B. Mutaftschiev, Two-dimensional overgrowth in the submonolayer range: the case of c(2x2)-PbCu(110), *Surf. Sci.* 324, 1 (1995).

274. Avramov, I. "Role of surface in apparent viscosity of glasses." *Physical Review E* 89.3(2014): 032301.
275. Li, Y., Luo, J.-S., Yi, Y., Zhu, H.-F., Gan, Z.-H., Ji, X.-C., Lei, H.-L. "Study on low temperature specific heat capacity of aluminum nanocrystalline", *Journal of Synthetic Crystals*, Volume 43, Issue 3, March 2014, Pages 676-681

(1541)I. Krastev, M.T.M. Koper, Pattern formation during the electrodeposition of a silver-antimony alloy, *Physica A*, 213,(1995), 199.

276. J.F.K. Cooper, K. N. Vyas, N.-J. Steinke, D.M. Love, Chr.J. Kinane, C.H.W. Barnes, Neutron reflectivity of electrodeposited thin magnetic films, *Electrochimica Acta* 08/2014; 138:56–61, цитат 12.
277. Deborah Lacitignola, Benedetto Bozzini, Ivonne Sgura, Spatio-Temporal Organization in a Morphochemical Electrodeposition Model: Analysis and Numerical Simulation of Spiral Waves, *Acta Applicandae Mathematicae*, August 2014, Volume 132, Issue 1, pp 377-389, цитат 17.

(1543)N. Krasteva, S. Armyanov, J. Georgieva, N. Avramova, V. Fotti, Thermal Stability of Electroless NiMeP Amorphous Alloys, *Journal of Electronic Materials*, 24(1995)941-946.

278. B. W. Zhang, S. Z. Liao, H. W. Xie, H. Zhang, Progress of electroless amorphous and nano alloy deposition: a review-Part 2, *Transactions of the IMF*, 92(2)74-80(2014).
279. J. Ruffini, L. A. Hamilton, D. Buechel-rimmel, J. M. Laplante, A. Schaffer, F. K. Lowes, Electroless coated disks for high temperature applications and methods of making the same, *United States Patent* 8828482(2014).
280. O. R. M. Khalifa, E. A. Al Hamed, M. A. Shoeib, H. A. Mohamed, S. Y. Ahmed, Behavior of black nickel tin solar absorber coating, *Intern. Res. J. Manag. & Commerce*, 1, 2014, 88-96.

(1560)M. Peykova, E. Michailova, D. Stoychev, A. Milchev, Galvanostatic studies of the nucleation and growth kinetics of copper in the presence of surfactants, *Electrochimica acta*, 40, 16(1995)2595-2601, ISSN: 0013-4686

281. Lixia Wang, Bin Kang, Juncai Sun, Yuanyuan Li, Linan Jia, Niobium diffusion modified austenitic stainless steel bipolar plate for direct methanol fuel cell, *International Journal of Hydrogen Energy*, 39, 25(2014)13701–13709, ISSN: 0360-3199
282. Radisic, B. M. Morcos, M. Op de Beeck, J. M. O’Callaghan, C. Van Hoof, Electrochemical fabrication of platinum interconnects for implantable electronic devices, *Microelectronic Engineering*, 120,(2014), 251–256, MAM2013, March 10-13, Leuven, Belgium, ISSN: 0167-9317
- (1563)T. Radeva, Electric Light Scattering of Ferric Oxide Particles in Sodium Carboxymethylcellulose Solutions, Journal of Colloid and Interface Science 174 (1995) 368-372.**
283. Карина Митарова, “Моделни нано-контейнери за пренос на аскорбинова киселина”, Дипломна работа за ОС “магистър”, СУ „Св. Климент Охридски” 2014.
- (1566)Monte-carlo study of living polymers with the bond-fluctuation method, ROUAULT, Y; MILCHEV, A, PHYSICAL REVIEW E Volume: 51 Issue: 6 Pages: 5905-5910 Part: A Published: JUN 1995**
284. Three dimensional cluster distributions in processed multi-wall carbon nanotube polymer composites, D. Moon, J. Obrzut, J.F. Douglas, T. Lam, K.K. Koziol, K.B. Migler, *POLYMER* Volume: 55 Issue: 15 Pages: 3270-3277 Published: JUN 25 2014
- (1593)S. Armyanov, O. Steenhaut, N. Krasteva, J. Georgieva, J.-L. Delplancke, R. Winand, J. Vereecken, AES Elements Profiles and Interface with the Substrate of Electroless Deposited Ternary Alloys, Journal of the Electrochemical Society, 143(1996)3692-3698.**
285. V. Ijeri, S. Bane, K.I Shah, P. Goradia, The Electroless Deposition of Nickel-Phosphorus-Tungsten Alloys, *NASF Surface Technology White Papers, Product Finishing*, 78(7)2014, 1-7.
286. T. Anik, A. El Haloui, M. Ebn Touhami, R. Tourir, H. Larhzil, M. Sfaira, M. Mcharfi, Influence of N-N dimethyl formamide on electroless copper plating using hypophosphite as reducing agent Original Research Article, *Surf. Coat. Technol.*, 245, 2014, 22-27.
287. T. Anik, R. Tourir, M. Ebn Touhami, H. Larhzil, M. Cherkaoui, Effect of operatories parameters and elements composition of bath on the electroless copper deposition, *Moroccan J. Chem.* 2, 2014, 211-224.
- (1598)Kinetics of structural relaxation in a constrained dynamics system Avramov I., V. Tonchev J. Non-Cryst. Sol. 194(1996)122,**
288. B. A. Snopok, *Theoretical and Experimental Chemistry*, Vol. 50, No. 2, May, 2014(Russian Original Vol. 50, No. 2, March-April, 2014)
- (1599)Simulation studies on the dynamics of polymers at interfaces, Binder, K; Milchev, A; Baschnagel, J, ANNUAL REVIEW OF MATERIALS SCIENCE Volume: 26 Pages: 107-134 Published: 1996**
289. Localization and stretching of polymer chains at the junction of two surfaces
Patra, Tarak K.; Singh, Jayant K., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 20 Article Number: 204909 Published: MAY 28 2014
290. Description of interfaces of fluid-tethered chains: advances in density functional theories and off-lattice computer simulations, Sokolowski, S.; Ilnytskyi, J.; Pizio, O. *condensed matter physics* Volume: 17 Issue: 1 Article Number: 12601 Published: 2014
- (1616)S. Kakorin, S.P. Stoylov, E. Neumann, Electro-optics of membrane electroporation in diphenylhexatriene-doped lipid bilayer vesicles, Biophys. Chem. 58(1996)109-116.**

291. M. Winterhalter, Lipid membranes in external electric fields: Kinetics of large pore formation causing rupture, *Adv. Colloid Interface Sci.* 208, 2014, 121-128.
292. J.M. Escoffre, M. Hubert, J. Teissie, M.P. Rols, C. Favard, Evidence for electro-induced membrane defects assessed by lateral mobility measurement of a gpi anchored protein, *Europ. Biophys. J.* 43, 2014, 277-286.
- (1629)Static and dynamic properties of adsorbed chains at surfaces: Monte Carlo simulation of a bead-spring model, Milchev, A; Binder, K, MACROMOLECULES Volume: 29 Issue: 1 Pages: 343-354 Published: JAN 1 1996**
293. Q.H. Yang, C.J. Qian, H. Li, M.B. Luo, Dynamics of a polymer adsorbed to an attractive homogeneous flat surface. *Phys.Chem.Chem.Phys.* 16(2014)23292-23300.
294. Patra, Tarak K.; Singh, Jayant K., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 20 Article Number: 204909 Published: MAY 28 2014
295. Skaug, Michael J.; Mabry, Joshua N.; Schwartz, Daniel K., *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY* Volume: 136 Issue: 4 Pages: 1327-1332 Published: JAN 29 2014
296. Li, Chao-Yang; Zhang, Shuang; Huang, Jian-Hua;, M.B. Luo, *E-POLYMERS* Volume: 14 Issue: 1 Pages: 35-41 Published: JAN 2014
- (1642)A. Nikolova, R. Koynova, B. Tenchov, D. Exerowa, Chain-melting phase transition indipalmitoylphosphatidylcholine foam bilayers, Chemistry and Physics of Lipids 83(1996)111-121.**
297. J.L. Toca-Herrera, N. Krasteva, H.J. Müller, R. Krastev, Interactions in lipid stabilised foam films, *Adv Colloid Interface Sci* 207, 2014, 93-106.
- (1643)A.N. Nikolova, M.N. Jones, Effect of grafted PEG-2000 on the size and permeability of vesicles, Biochimica et Biophysica Acta - Lipids and Lipid Metabolism 1304(1996)120-128.**
298. A.Magarkar, T. Róg, A. Bunker, Molecular dynamics simulation of PEGylated membranes with cholesterol: Building toward the DOXIL formulation, *J.Phys.Chem.C* 118, 2014, 15541-15549.
- (1751)M. Monev, M.E. Baumgärtner, C.J. Raub, Hydrogencontentofnickel-layers, MOMetalloberflächeBeschichtenvonMetallundKunststoff, 51(5)(1997)328-332.**
299. D.-H. Nam, K.-S. Hong, J.-S. Kim, (.), G.-E. Kim, H.-S. Kwon, Synergistic effects of coumarin and cis-2-butene-1,4-diol on high speed electrodeposition of nickel, *Surface and Coatings Technology*, 248(2014)30-37.
- (1841)M. Monev, L. Mirkova, I. Krastev, Hr. Tsvetkova, St. Rashkov, W. Richtering, Effectofbrightenersonhydrogenevolutionduringzincelectroplatingfromzincateelectrolytes, J Appl Electrochem, 28(10)(1998)1107-1112.**
300. M. Xu, D.G. Ivey, W. Qu, Z. Xie, Improved Zn/Zn(II)redox kinetics, reversibility and cyclability in 1-ethyl-3-methylimidazolium dicyanamide with water and dimethyl sulfoxide added, *Journal of Power Sources*, 252(2014)327-332.
301. J.L. Ortiz-Aparicio, Y. Meas, T.W. Chapman, G. Trejo, R. Ortega, E. Chainet, Electrodeposition of zinc in the presence of quaternary ammonium compounds from alkaline chloride bath, *Journal of Applied Electrochemistry*,(2014)article in press.
302. X. Zheng, W. Hu, N. Zhang, M. Gao, Optical corrosion sensor based on fiber Bragg grating electroplated with Fe-C film, *Opt. Eng.*, 53(7)(2014)077104.
- (1847)Petrova-Nikolova M., Pohl J.P. Investigations on the electrochemical behaviour of the phase boundary counter electrode/electrolyte of amperometric solid electrolyte gas sensors based on Ag β -alumina, Sensors and Actuators, B: Chemical, 46(1)(1998)66-71.**

303. Zhang, H., Cheng, X., Sun, R., Guan, Y., Liu, Y., Yin, C., Liang, X., Lu, G., Enhanced chlorine sensing performance of the sensor based NAISCON and Cr-series spinel-type oxide electrode with aging treatment, *Sensors and Actuators, B: Chemical* 198(2014)26-32

(1648)Petrova M., Noncheva Z., Dobrev Ts., Rashkov St., Kounchev N., Petrov D., Vlaev St., 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 I. Behaviour of Pb-Ag, Pb-Ca and Pb-Ag-Ca alloys Hydrometallurgy, 40(3)(1996)293-318.

304. Huang, J., Ding, Y.F., Su, X.D., Li, Y., Xiong, Y.S., Long, D.S., Wu, Z.H., “Industrial application of Pb-Ag-Ca anode with surface passivation for zinc electrowinning”(Conference Paper), *Advanced Materials Research*941-944(2014)1398-1401
305. Yang, H.T., Guo, Z.C., Chen, B.M., Liu, H.R., Zhang, Y.C., Huang, H., Li, X.L., Fu, R.C., Xu, R.D., “Electrochemical behavior of rolled Pb-0.8%Ag anodes in an acidic zinc sulfate electrolyte solution containing Cl⁻ ions”, *Hydrometallurgy*147-148(2014)148-156
306. Zhang, Y.-C., Chen, B.-M., Yang, H.-T., Huang, H., Guo, Z.-C., “Anodic behavior and microstructure of Al/Pb-Ag-Co anode during zinc electrowinning” *Journal of Central South University*21(1)(2014)83-88

(1652)Rashkov St., Stefanov Y., Noncheva Z., Petrova M., Dobrev Ts., Kunchev N., Petrov D.,(..), 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 ternary Pb-Ag-Ca alloys in a sulphuric-acid electrolyte for zinc electro-extraction”, *Hydrometallurgy, 40(3)(1996)319-334.*

307. Zhang, Y.-C., Chen, B.-M., Yang, H.-T., Guo, Z.-C., Xu, R.-D., ”Anodic behavior and microstructure of Al/Pb-Ag anode during zinc electrowinning”, *Transactions of Nonferrous Metals Society of China(English Edition)*24(3)(2014)893-899
308. Zhang, Y.-C., Chen, B.-M., Yang, H.-T., Huang, H., Guo, Z.-C., “Anodic behavior and microstructure of Al/Pb-Ag-Co anode during zinc electrowinning”, *Journal of Central South University*21(1)(2014)83-88
309. Balusamy, T., Venkateswarlu, M., Murthy, K.S.N., Vijayanand, S., Narayanan, T, “Effect of surface mechanical attrition treatment(SMAT)on the surface and electrochemical characteristics of Pb-Sn alloy *International Journal of Electrochemical Science*9(1)(2014)96-108
310. Yang, H.T., Guo, Z.C., Chen, B.M., Liu, H.R., Zhang, Y.C., Huang, H., Li, X.L., Fu, R.C., Xu, R.D., “Electrochemical behavior of rolled Pb-0.8%Ag anodes in an acidic zinc sulfate electrolyte solution containing Cl⁻ ions”, *Hydrometallurgy*147-148(2014)148-156

(1661)D. Stoychev, Ch. Tsvetanov, Behaviour of poly(ethylene glycol)during electrodeposition of bright copper coatings in sulfuric acid electrolytes, *Journal of applied electrochemistry, 26, 7(1996)741-749, ISSN: 0021-891X(Print)1572-8838(Online)*

311. Hiroaki Noma, Toshiaki Koga, Chieko Hirakawa, Kazuhiro Nonaka, Kazuhisa Shobu, Tadahiro Kaibuki and Syusaku Moriyama, Analysis of Cu(I)Complexes in Copper Sulfate Electroplating Solution by Using Reaction Kinetics with a Chelate Reagent, *ECS Trans.* 58, 17(2014)77-88, Print ISSN: 1938-6737; Online ISSN: 1938-5862.
312. Liu Yang, Aleksandar Radisic, Johan Deconinck, Philippe M. Vereecken, Stochastic Modeling of Polyethylene Glycol as a Suppressor in Copper Electroplating, *J. Electrochem. Soc.* 161, 5(2014)D269-D276, Print ISSN: 0013-4651; Online ISSN: 1945-7111

313. Masayuki Yokoi, "Suppression Effect and Additive Chemistry", In the book *Copper Electrodeposition for Nanofabrication of Electronics Devices*, Nanostructure Science and Technology, (2014) pp.27-43, ISBN: 978-1-4614-9175-0(Print)978-1-4614-9176-7(Online)
- (1667)E. Valova, S. Armyanov, J.-L. Delplancke, O. Steenhaut, R. Winand, J. Vereecken, Interface with the Substrate of High Phosphorus Electroless NiP and NiCuP Deposited from Non-ammonia Alkaline Solutions, Journal of the Electrochemical Society, 143, 2804-2815(1996)**
314. T. Anik, A. El Haloui, M. Ebn Touhami, R. Tourir, H. Larhzil, M. Sfaira, M. Mcharfi, Influence of N-N dimethyl formamide on electroless copper plating using hypophosphite as reducing agent Original Research Article, *Surf. Coat. Technol.*, 245, 2014, 22-27.
315. T. Anik, R. Tourir, M. Ebn Touhami, H. Larhzil, M. Cherkaoui, Effect of operatories parameters and elements composition of bath on the electroless copper deposition, *Moroccan J. Chem.* 2, 2014, 211-224.
- (1668)S. Vitkova, V. Ivanova, G. Raichevsky, Electrodeposition of low tin content zinc-tin alloys, Surface and Coatings Technology, 82(3)(1996), 226-231.**
316. V. Di Cocco, F. Iacoviello, S. Natali, Damaging micromechanisms in hot-dip galvanizing Zn based coatings, *Theoretical and Applied Fracture Mechanics*, 70, (2014), 91-98.
317. 9.M.Esfahani, J.Zhang, , Y.Durandet, , J.Wang, , Y.Wong, Effect of thiourea on the structure and corrosion properties of electrodeposited Zn-Sn, *Annual Conference of the Australasian Corrosion Association 2014: Corrosion and Prevention 2014*.
318. **10. Zhen Liu, Amr M. Elbasiony, Sherif Zein El Abedin, Frank Endres, Electrodeposition of Zinc-Copper and Zinc-Tin Films and Free-Standing Nanowire Arrays from Ionic Liquids, ChemElectroChem, DOI: 10.1002/celc.201402350, Wiley Online Library(2014).**
319. 11. H. Kazimierczak, P. Ozga, A. Jalowiec, R. Kowalik. Tin-zinc alloy electrodeposition from aqueous citrate baths, *Surface and Coatings Technology*, 240, (2014), 311-319.
- (1707)E. Arapaki, P. Argyrakis, I. Avramov and A. Milchev, Phys. Rev. E(rapid Comm.)56(1997)R29-R31 "Effect of temperature on biased random walks in disordered media"**
320. Mitran, TL; Melchert, O; Hartmann, AK, Biased and greedy random walks on two-dimensional lattices with quenched randomness: The greedy ant within a disordered environment. *PHYSICAL REVIEW E*, 88(6):10.1103/PhysRevE.88.062101
- (1708)S. Armyanov, S. Vitkova, O. Blajiev, Internal stress and magnetic properties of electrodeposited amorphous Fe-P alloys, Journal of Applied Electrochemistry 27, (1997) 185-191.**
321. F. Safizadeh, E. Ghali, G. Houlachi, Electrocatalysis developments for hydrogen evolution reaction in alkaline solutions – A - Review, *International Journal of Hydrogen Energy*, 40, (1) (2014), 256-274.
- (1718)A. Dobрева, I. Gutzow, J. Schmelzer, Stress and time dependence of relaxation and the Kohlrausch stretched exponent formula, J. Non-Cryst. Solids 209, 3, 1997, 257-263.**
322. Noorjahan, X. Tan, Q. Liu, M.R. Gray, P. Choi, Study of cyclohexane diffusion in athabasca asphaltene, *Energy and Fuels* 28, 2, 2014, 1004-1011.
- (1724)D. Exerowa, R. Sedev, R. Ivanova, T. Kolarov, Th. Tadros, Transition from electrostatic to steric stabilization in foam films from ABA triblock copolymers of poly(ethylene oxide) and poly(propylene oxide), Colloids and Surfaces A: Physicochemical and Engineering Aspects 123-124(1997)277-282.**

323. K. Kabir-Ud-Din, G. Sharma, P.A. Koya, Mixed Micellar properties and related interaction parameters of butanediyl-1,4-bis(dodecyl dimethyl ammonium bromide)Gemini surfactant with nonionic amphiphiles, *J.Surfactants Deterg.* 17, 2014, 441-451.
- (1726)I. Gutzow, A. Dobрева, C. Rüssel, B. Durschang, Kinetics of vitrification under hydrostatic pressure and under tangential stress, *J. Non-Cryst. Solids* 215, 2-3, 1997, 313-319.**
324. X. He, C. Fan, B. Poumellec, Q. Liu, H. Zeng, F. Brisset, G. Chen, X. Zhao, M. Lancry, Size-controlled oriented crystallization in SiO₂-based glasses by femtosecond laser irradiation, *J. Opt. Soc. Amer. B: Opt. Phys.* 31, 2, 2014, 376-381.
- (1729)I. Gutzow, B. Durschang, C. Rüssel, Crystallization of glassforming melts under hydrostatic pressure and shear stress: Part I Crystallization catalysis under hydrostatic pressure: Possibilities and limitations, *J. Mater. Sci.* 32, 20, 1997, 5389-5403.**
325. K. Adrjanowicz, A. Grzybowski, K. Grzybowska, J. Pionteck, M. Paluch, Effect of high pressure on crystallization kinetics of van der waals liquid: An experimental and theoretical study, *Cryst. Growth Des.* 14, 5, 2014, 2097-2104.
326. Q.-B. Tian, D.-Y. Kong, J.-S. Dai, X.-H. Wang, H. Gao, Pressure crystallization of SiO₂-Al₂O₃-MgO-F glass ceramics, *Rengong Jingti Xuebao/J. Synth. Cryst.* 43, 2, 2014, 409-413.
- (1744)Monomer-mediated relaxation in living polymers, Milchev, A; Rouault, Y; Landau, DP, PHYSICAL REVIEW E Volume: 56 Issue: 2 Pages: 1946-1953 Published: AUG 1997**
327. Concentration Evolution of the Dielectric Response of Hydrogen-Bonded Supramolecular Polymers Formed by Dialkylurea in Non-Polar Medium, Swiergiel, Jolanta; Bouteiller, Laurent; Jadzyn, Jan, *MACROMOLECULES* Volume: 47 Issue: 7 Pages: 2464-2470 Published: APR 8 2014
- (1745)Dewetting of thin polymer films adsorbed on solid substrates: A Monte Carlo simulation of the early stages, Milchev, A; Binder, K, JOURNAL OF CHEMICAL PHYSICS Volume: 106 Issue: 5 Pages: 1978-1989 Published: FEB 1 1997**
328. Coexistence of spinodal instability and thermal nucleation in thin-film rupture: Insights from molecular levels, T.D. Nguyen, M. Fuentes-Cabrera, J.D. Fowlkes, P.D. Rack, *PHYSICAL REVIEW E* Volume: 89 Issue: 3 Article Number: 032403 Published: MAR 14 2014
329. Rupture mechanism of liquid crystal thin films realized by large-scale molecular simulations, T.D. Nguyen, J.M.Y. Carrillo, M.A. Matheson, W.M. Brown, *NANOSCALE* Volume: 6 Issue: 6 Pages: 3083-3096 Published: 2014
- (1765)T. Radeva, J. Widmaier, I. Petkanchin, Adsorption of hydrolyzed polyacrylamides on ferric oxide particles: Counterion mobility in stabilized suspensions, *Journal of Colloid and Interface Science* 189(1997)23-26.**
330. Карина Митарова, “Моделни нано-контейнери за пренос на аскорбинова киселина”, Дипломна работа за ОС “магистър” СУ, „Св. Климент Охридски” 2014.
- (1767)Ts. Radeva, I. Petkanchin, Electric properties and conformation of polyethylenimine at hematite/aqueous solution interface, *J. Colloid Interface Sci.* 196(1997)87-91.**
331. K. Farbod, M.R. Nejadnik, J.A. Jansen, S.C.G. Leeuwenburgh, Interaction between inorganic and organic phases in bone tissue as a source of inspiration for design of novel nanocomposites, *Tissue Eng. B: Reviews* 20, 2014, 173-188.
- (1772)Monte Carlo study of the molecular-weight distribution of living polymers, Rouault, Y; Milchev, A, PHYSICAL REVIEW E Volume: 55 Issue: 2 Pages: 2020-2022 Published: FEB 1997**
332. Three dimensional cluster distributions in processed multi-wall carbon nanotube polymer composites, Moon, Doyoung; Obrzut, Jan; Douglas, Jack F.; *POLYMER* Volume: 55 Issue: 15 Pages: 3270-3277 Published: JUN 25 2014
333. D.W. Sun, M. Müller, Interfaces and interphases in dense, polydisperse living polymer systems: A comparison between computer simulation and self-consistent field theory. *Soft Mater.* 12(2014)S31-S40.

(1775)E.M. Scarpelli, A.J. Mautone, Z. Lalchev, D. Exerowa, Surfactant liquid and black foam film formation and stability in vitro and correlative conditions in vivo, Colloids and Surfaces B: Biointerfaces 8(1997)133-145.

334. M.A. Borden, Microbubble dispersions of natural lung surfactant, *Curr.Opin.Colloid Interface Sci.* 19, 2014, 480-489.

(1779)E. Stoyanova, D. Stoychev, Electrochemical aspects of the immersion treatment of aluminium, Journal of Applied electrochemistry, 27, 6(1997)685-690, ISSN: 0021-891X(Print)1572-8838(Online)

335. E. Khodadad, M.K. Lei, Mathematical Modeling for Hard Trivalent Chromium Coatings Thickness with Thin Zincates Interlayer on Pure Aluminum, *Int. J. Electrochem. Sci.* 9(2014)1250-1263 ISSN 1452-3981

336. Jordan F. Betz,^{ab} Wei W. Yu,^{ab} Yi Cheng,^{bc} Ian M. White^{ab} and Gary W. Rubloff Simple SERS substrates: powerful, portable, and full of potential *Phys. Chem. Chem. Phys.*, 2014,16, 2224-2239 DOI: 10.1039/C3CP53560F

(1782)S.P. Stoylov, C. Vuilleumier, E. Stoylova, H. De Rocquigny, B.P. Roques, D. Gerard, Y. Mely, Ordered aggregation of ribonucleic acids by the human immunodeficiency virus type 1 nucleocapsid protein, Biopolymers 41(1997)301-312.

337. H. Wu, M. Mitra, M.N. Naufer, K. Musier-Forsyth, M.C. Williams, Differential contribution of basic residues to HIV-1 nucleocapsid protein's nucleic acid chaperone function and retroviral replication, *Nucleic Acids Res.* 42, 2014, 2525-2537.

338. W. Wang, N. Naiyer, M. Mitra, Z. Wu, K. Musier-Forsyth, Distinct nucleic acid interaction properties of HIV-1 nucleocapsid protein precursors NCp15 explain reduced viral infectivity, *Nucleic Acids Res.* 42, 2014, 7145-7159.

(1787)Diffusion of a polymer chain in porous media, Yamakov, V; Milchev, A, PHYSICAL REVIEW E Volume: 55 Issue: 2 Pages: 1704-1712 Published: FEB 1997

339. Translocation of a forced polymer chain through a crowded channel, J.X. Chen, J.X. Zhu, Y.Q. Ma, J.S. Cao *EPL* Volume: 106 Issue: 1 Article Number: 18003 Published: APR 2014

(1801)D. Exerowa, P.M. Kruglyakov. Foam and foam films, Elsevier Science, Amsterdam, 1998, 773 pages. ISBN 9780444819222.

340. N. D. Denkov, K.G. Marinova, S.S. Tcholakova, Mechanistic understanding of the modes of action of foam control agents, *Adv. Colloid Interface Sci.*, 206,2014, 57-67.

341. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, *Advances in Colloid and Interface Science*, 209, 2014, 109–126.

342. J.L. Toca-Herrera, N. Krasteva, H.J. Müller, R. Krastev, Interactions in lipid stabilised foam films, *Adv Colloid Interface Sci* 207, 2014, 93-106.

343. Terziyski, L. Alexandrova, I. Stoineva, N. Christova, R. Todorov, R. Cohen, Foam and wetting films from rhamnolipids produced by *Pseudomonas aeruginosa* BN10, *Colloids Surf.A Physicochem.Eng.Asp.* 460, 2014, 299-305.

344. D. Arabadzhieva, P. Tchoukov, B. Soklev, E. Mileva, Interfacial layer properties and foam film drainage kinetics of aqueous solutions of hexadecyltrimethylammonium chloride, *Colloids Surf.A Physicochem.Eng.Asp.* 460, 2014, 28-37.

345. D. Kosior, J. Zawala, K. Malysa, Influence of n-octanol on the bubble impact velocity, bouncing and the three phase contact formation at hydrophobic solid surfaces, *Colloids Surf.A Physicochem.Eng.Asp.*, 441, 2014, 788-795.

346. J. Hurcom, A. Paul, R.K. Heenan, A. Davies, N. Woodman, R. Schweins, P.C. Griffiths, The interfacial structure of polymeric surfactant stabilised air-in-water foams, *Soft Matter* 10, 2014, 3003-3008.
347. H. Fauser, R. Von Klitzing, Effect of polyelectrolytes on(de)stability of liquid foam films, *Soft Matter* 10, 2014, 6903-6916.
348. B. Scheid, J. Zawala, S. Dorbolo, Gas dissolution in antibubble dynamics, *Soft Matter* 10, 2014, 7096-7102.
349. S.Sett, R.P.Sahu, S.Sinha-Ray, A.L.Yarin, Superspreaders versus "cousin" non-superspreaders: Disjoining pressure in gravitational film drainage, *Langmuir*, 30, 2014, 2619-2631.
350. S. Sett, R.P. Sahu, D.D. Pelot, A.L. Yarin, Enhanced foamability of sodium dodecyl sulfate surfactant mixed with superspreader trisiloxane-(poly)ethoxylate, *Langmuir* 30 2014, 14765-14775
351. C.Blázquez, E. Emond, S. Schneider, C. Dalmazzone, V. Bergeron, Mousses non aqueuses et mousses pétrolières | [Non-aqueous and crude oil foams], *Oil Gas Sci. Technol.*, 69, 2014, 467-479.
352. K.Müller-Auffermann, A. Contreras, N.Dünzer, F. Jacob, Evaluation of the influence of antifoam products on yeast, tank cleaning and the chemical/physical properties of beer, *Brewing Sci.*, 67, 2014, 48-59.
353. C.Park, S.W. Hermanowicz, A multi-point electrical resistance measurement system for characterization of foam drainage regime and stability, *AIChE J.*, 60, 2014, 3143-3150.
354. A.Y.Gyurova, S.V.Stoyanov, E.Mileva, Interaction of four-antennary oligoglycines and lipopolysaccharides in aqueous media, *Colloids& Surfaces A*, 460, 2014, 130-136.
355. E.Alhseinat, P. Pal, M. Keewan, F. Banat, Foaming study combined with physical characterization of aqueous MDEA gas sweetening solutions, *J.Natural Gas Sci.Engineering*, 17 , 2014, 49-57.
356. P. Tchoukov, F. Yang, Z. Xu, T. Dabros, J. Czarnecki, J. Sjöblom, Role of asphaltenes in stabilizing thin liquid emulsion films, *Langmuir* 30, 2014, 3024-3033.
357. N. Schelero, R. Miller, R. von Klitzing, Effect of oppositely charged hydrophobic additives(alkanoates)on the stability of C14TAB foam films, *Colloids Surf.A Physicochem.Eng.Asp.* 460, 2014, 158-167.
358. D.J.Sherwood, A. Eduardo Sáez, The start of ebullition in quiescent, yield-stress fluids, *Nuclear Engin. Design*, 270, 2014, 101-108.
359. R.I.Slavchov, T. Nomura, B. Martinac, M. Sokabe, F. Sachs, Gigaseal mechanics: Creep of the gigaseal under the action of pressure, adhesion, and voltage, *J. Phys. Chem. B*, 118, 2014, 12660-12672.
360. A.Bureiko, A. Trybala, N. Kovalchuk, V. Starov, Current applications of foams formed from mixed surfactant-polymer solutions, *Advances in Colloid and Interface Science*, 2014, DOI. 10.1016/j.cis.2014.10.001.
361. Bureiko, A. Trybala, J. Huang, N. Kovalchuk, V. Starov, Effects of additives on the foaming properties of Aculyn 22 and Aculyn 33 polymeric solutions, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 460, 2014, 265-271.
362. E. Opdal, Mobility Control by CO₂foam Injection forIntegrated EOR, Master Thesis in Reservoir Physics, Department ofPhysics and TechnologyUniversity of Bergen, 2014.
363. S. Semenov, A. Trybala, R.G. Rubio, N. Kovalchuk, V. Starov, M.G. Velarde, Simultaneous spreading and evaporation: Recent developments, *Advances in Colloid and Interface Science* 206, 2014, 382-398.
364. Y. Katsir, A. Marmur, Rate of bubble coalescence following quasi-static approach: screening and neutralization of the electric double layer, *Scientific Reports* 4, 2014, article № 4266.
365. R. Farajzadeh, S. Vincent-Bonnieu, N. Bourada, Effect of gas permeability and solubility on foam, *Journal of Soft Matter*, Volume 2014, 2014, article. № 145352, 7 p.

366. Стефан Стоянов, “Взаимодействие на липополизахариди и четириантенни олигоглицини във водна среда”, Дипломна работа за ОС “магистър”, СУ „Св. Климент Охридски” 2014.
367. Иван Лесов, “Получаване на порьозни материали от пени, стабилизирани със силикатни частици”, Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.
- (1805)M Aroyo, D Stoychev, N Tzonev, Theoretical and practical aspects of electro deposition of metal coatings with improved properties(Part 2), Plating and surface finishing, 85, 9(1998)92-97, ISSN 0360-3164**
368. Femat Díaz, Aurora, Adelgazamientos y orientación de segmentos longitudinales en imágenes: aplicación a la caracterización de fisuras en micrografías, 2014,
369. “Characterisation of the Structure and Composition of Stainless Steel 316L after Electrochemical Roughening”, D.Stoychev, P.Stefanov, M.Stoycheva, D.Nikolova, Ts.Marinova, Trans.Inst.Metal Finishing(England), 78, No2, 67-70(2000)
370. Г.Б.Атанасова, Дисертация “Доктор”, “Характеризиране на тънки оксидни филми, приложими за каталитични носители”, ИОНХ-БАН(2014)
371. Surface Modification of Porous Zirconia Layers by Electrochemical Deposition of Small Amounts of Cu, Co and Co+Cu”, D.Stoychev, J.Ikonomov, K.Robinson, M.Stoycheva, Ts.Marinova, J.Surface and Interface Analysis, 30, 69-73(2000)
372. Г.Б.Атанасова, Дисертация “Доктор”, “Характеризиране на тънки оксидни филми, приложими за каталитични носители”, ИОНХ-БАН(2014)
- (1810)I. Avramov “Viscosity Of Glassforming Melts” J. Non-Cryst. Solids 238(1998)6-10 ISSN 0022-3093**
373. Morizet, Y; Alech, Q, PHYS. CHEM. OF GLASSES-EUROPEAN JOURNAL OF GLASS SCIENCE AND TECHNOLOGY PART B, 55(1):41-48; FEB 2014
374. Casalini, R.; Roland, C. M., MACROMOLECULES, 47(12):4087-4093; 10.1021/ma5008495 JUN 24 2014
- (1811)I. Avramov, A. Milchev, P. Argyrakis, H. Arapaki, Biased random walk in energetically disordered lattices, Physical Review E58(1998)2788**
375. Mitran, TL; Melchert, O; Hartmann, Biased and greedy random walks on two-dimensional lattices with quenched randomness: The greedy ant within a disordered environmentAK, PHYSICAL REVIEW E, 88(6):10.1103/PhysRevE.88.062101
376. Simon, MS; Sancho, JM; Lindenberg, K, EUROPEAN PHYSICAL JOURNAL B, 87(9):10.1140/epjb/e2014-50295-9 SEP 10 2014
- (1821)I. Gutzow, R. Pascova, A. Karamanov, J. Schmelzer, The kinetics of surface induced sinter crystallization and the formation of glass-ceramic materials, J. Mater. Sci. 33, 21, 1998, 5265-5273.**
377. M. A. Binhussain, M. Marangoni, E. Bernardo, P. Colombo, Sintered and glazed glass-ceramics from natural and waste raw materials, Ceramics Int. 40, 2, 2014, 3543-3551.
378. M. Marangoni, I. Ponsot, R. Kuusik, E. Bernardo, Strong and chemically inert sinter crystallised glass ceramics based on Estonian oil shale ash, Adv. Appl. Ceramics 113, 2, 2014, 120-128.
379. Denry, J. A. Holloway, Low temperature sintering of fluorapatite glass-ceramics, Dental Mater. 30, 2, 2014, 112-121.
380. S. Fest, S. Reinsch, R. Mueller, Milling, Sintering and Crystallization of 11BaO-25CaO-64SiO₂ Glass Powder, Int. J. Appl. Glass Sci. 5, 3, 2014, 236-247.
381. R. C. Breneman, J. W. Halloran, Kinetics of cristobalite formation in sintered silica, J. Amer. Ceramic Soc. 97, 7, 2014, 2272-2278.

(1828)A.Kelaidopoulou,G.Kokkinidis, A.Milchev, Nucleation and growth of metal catalysts. PartI. Electrodeposition of platinum on tungsten, J. Electroanal.Chem., 444(1998)195-201,ISSN:00220728.

382. Electrocrystallization of palladium(Pd)nanoparticles on platinum(Pt)electrode and its application for electro-oxidation of formic acid and methanol Gupta, R., Guin, S.K., Aggarwal, S.K., *Electrochimica Acta*, 116(2014)314-320
383. Gu, S., Wang, X.P., Wei, Y.Z., Fang, B.Z. Mechanism for nucleation and growth of electrochemical deposition of palladium(II) on a platinum electrode in hydrochloric acid solution, *Science China Chemistry*, 57(5)(2014)755-762
384. Im, B., Kim, S., Nucleation and growth of Cu electrodeposited directly on a diffusion barrier in neutral electrolyte, *Electrochimica Acta*, 130(2014)52-59, ISSN:00134686.

(1836)A.Milchev, Electrochemical nucleation on active sites-what do we measure in reality? PartI. "J. Electroanal. Chem., 457 (1998)35,ISSN:00220728.

385. J. Velmurugan, J.-M. Noël, Michael V. Mirkin, Nucleation and growth of mercury on Pt nanoelectrodes at different overpotentials, *Chemical Science*, 5(1)(2014)189-194

(1841)M. Monev, L. Mirkova, I. Krastev, Hr.Tsvetkova, St. Rashkov, W. Richtering, Effect of brighteners on hydrogen evolution during zinc electroplating from zincate electrolytes, Journal of Applied Electrochemistry, 28,(1998), 1107-1112.

386. M. Xu, D.G. Ivey, W. Qu, Z. Xie, Improved Zn/Zn(II) redox kinetics, reversibility and cyclability in 1-ethyl-3-methylimidazolium dicyanamide with water and dimethyl sulfoxide added, *J Power Sources* 252(2014)327-332, цитат 8.
387. LIU Shen-na, YANG Yang, HUANG Cheng-yuan, ZHU Sha-sha, CHEN Guo-liang, The Influence of Guanidyl Thiourea and Nicotinic Acid on the Zinc Electrodeposition in the Acidic Sulfate Solution, *Journal of Minnan Normal University (Nat. Sci.)*, No. 1, 2014, General Number 83, 91-97, цитат 3.
388. Xing Zheng; Wenbin Hu; Ning Zhang and Min Gao, "Optical corrosion sensor based on fiber Bragg grating electroplated with Fe-C film", *Opt. Eng.* 53(7), 077104(Jul 28, 2014). ; <http://dx.doi.org/10.1117/1.OE.53.7.077104>, цитат 19.

(1849)J. Schmelzer, J. Möller, I. Gutzow, Ostwald's rule of stages: The effect of elastic strains and external pressure, Zs. Phys. Chem. 204, 1-2, 1998, 171-181.

389. K. Adrjanowicz, A. Grzybowski, K. Grzybowska, J. Pionteck, M. Paluch, Effect of high pressure on crystallization kinetics of van der Waals liquid: An experimental and theoretical study, *Cryst. Growth Des.* 14, 5, 2014, 2097-2104.
390. L. Wang, C. Lin, F. Zhang, J. Jin, Phase transformation guided single-layer β -Co(OH)₂ nanosheets for pseudocapacitive electrodes, *ACS Nano* 8, 4, 2014, 3724-3734.

(1853)Stoyanov, S., New type of step bunching instability at vicinal surfaces in crystal evaporation affected by electromigration, Surface Science, 416(1-2)(1998)200-213.

956. Patrone, P.N., Margetis, D., Connection of kinetic Monte Carlo model for surfaces to one-step flow theory in 1+1 dimensions, *Multiscale Modeling and Simulation* 12(1)(2014)364-395.

(1867)Dynamical Monte Carlo study of equilibrium polymers: Static properties Wittmer, JP; Milchev, A; Cates, ME, JOURNAL OF CHEMICAL PHYSICS Volume: 109 Issue: 2 Pages: 834-845 Published: JUL 8 1998

391. Coöse bitumen. II. Stability of linear asphaltene nanoaggregates Lemarchand, Claire A.; Schroder, Thomas B.; Dyre, Jeppe C.; J.S. Hansen. *JOURNAL OF CHEMICAL PHYSICS* Volume: 141 Issue: 14 Article Number: 144308 Published: OCT 14 2014

392. A mesoscopic simulation method for predicting the rheology of semi-dilute wormlike micellar solutions, Zou, Weizhong; Larson, Ronald G., *JOURNAL OF RHEOLOGY* Volume: 58 Issue: 3 Pages: 681-721 Published: MAY-JUN 2014
393. How a Viscoelastic Solution of Wormlike Micelles Transforms into a Microemulsion upon Absorption of Hydrocarbon: New Insight, Shibaev, Andrey V.; Tamm, Mikhail V.; Molchanov, Vyacheslav S.; E.E. Dormidontova, O.E. Philippova *LANGMUIR* Volume: 30 Issue: 13 Pages: 3705-3714 Published: APR 8 2014
- (1882)S. Armyanov, J. Georgieva, D. Tachev, E. Valova, N. Nyagolova, S. Mehta, D. Leibman, A. Ruffini, Electroless Deposition of Ni-Cu-P Alloys in Acidic Solutions, *Electrochemical and Solid State Letters*, 2(7)(1999)323-325**
394. B. Hui, J. Li, Q. Zhao, T. Liang, L. Wang, Effect of CuSO₄ Content in the Plating Bath on the Properties of Composites from Electroless Plating of Ni-Cu-P on Birch Veneer, *BioResources*, 9, 2014, 2949-2959.
395. D.-H. Niu, R.-S. Shen, Y. Liu, S.-H. Song, Yu-S. Zhang, G.-T. Du, Effect of CuSO₄ Content in the Plating Bath on the Properties of Composites from Electroless Plating of Ni-Cu-P on Birch Veneer, 2014, <http://wenku.baidu.com/view/e8c9151cb7360b4c2e3f6445.html>.
396. B. Hui, J. Li, L.-J. Wang, Preparation of electromagnetic shielding wood-based composite by electroless Ni-Cu-P plating on fraxinus mandshurica veneer, *Gongneng Cailiao/J Functional Materials*, 45, 2014, 10123-10127.
397. G.-X. Lu, L.-J. Hao, C. Liu, F.-X. Ye, Failure mechanism of ZrO₂-8% Y₂O₃ thermal barrier coatings on aluminum alloy with electroless plating interlayer, *Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals*, 24, 1311-1318(2014).
- (1891)M. Buleva, I. Petkanchin, Interaction of humic substances with silica and alumina colloids: Adsorption and stability. *Electro-optical study, Colloids Surf. A: Physicochem. Eng. Aspects* 151(1999)225-231.**
398. G. Jozefaciuk, H. Czachor, Impact of organic matter, iron oxides, alumina, silica and drying on mechanical and water stability of artificial soil aggregates. Assessment of new method to study water stability, *Geoderma* 221-222, 2014, 1-10.
- (1905)R. Ivanova, B. Balinov, R. Sedev, D. Exerowa, Formation of a stable, highly concentrated O/W emulsion modeled by means of foam films, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 149(1999)23-28.**
399. K. Kabir-Ud-Din, G. Sharma, P.A. Koya, Mixed Micellar properties and related interaction parameters of butanediyl-1,4-bis(dodecyl dimethyl ammonium bromide) Gemini surfactant with nonionic amphiphiles, *J. Surfactants Deterg.* 17, 2014, 441-451.
- (1913)Métois, J.J., Stoyanov, S., Impact of the growth on the stability-instability transition at Si(111) during step bunching induced by electromigration, *Surface Science* 440(3)(1999)407-419.**
400. Asakawa, H., Sazaki, G., Yokoyama, E., Nagashima, K., Nakatsubo, S., Furukawa, Y., Roles of surface/volume diffusion in the growth kinetics of elementary spiral steps on ice basal faces grown from water vapor, *Crystal Growth and Design* 14(7)(2014)3210-3220.
- (1915)A Monte-Carlo study of equilibrium polymers in a shear flow Milchev, A; Wittmer, JP; Landau, DP, *EUROPEAN PHYSICAL JOURNAL B* Volume: 12 Issue: 2 Pages: 241-251 Published: NOV 1999**
401. Microfluidic flows of wormlike micellar solutions, Zhao, Ya; Cheung, Perry; Shen, Amy Q., *ADVANCES IN COLLOID AND INTERFACE SCIENCE* Volume: 211 Pages: 34-46 Published: SEP 2014
- http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=25&SID=Q1ZWJh7IyfmocKtJepr&page=1&doc=2

402. Doubly self-consistent field theory of grafted polymers under simple shear in steady state, Suo, Tongchuan; Whitmore, Mark D., JOURNAL OF CHEMICAL PHYSICS Volume: 140 Issue: 11 Article Number: 114901 Published: MAR 21 2014

(1935)J.W. Schultze and V. Tsakova, Electrochemical microsystem technologies: from fundamental research to technical systems, Electrochim. Acta, 44, 1999, 3605-3627.

403. C. Xiang, J. Haber, M. Marcin, S. Mitrovic, J. Jin, J.M. Gregoire, Mapping quantum yield for(Fe-Zn-Sn-Ti)Ox photoabsorbers using a high throughput photoelectrochemical screening system, ACS Combinatorial Science, 16, 2014, 120-127.
404. G.G. Botte, D.A. Daramola, M.Muthuvel, Preparative Electrochemistry for Organic Synthesis (Book Chapter), Comprehensive Organic Synthesis: Second Edition 9, 2014, 351-389.
405. F. Arjmand, A. Adriaens, Microcapillary electrochemical droplet cells: Applications in solid-state surface analysis (Review), J. Solid State Electrochem., 18 , 2014, 1779-1788.

(1923)Zs. Németh, R. Sedev, R. Ivanova, T. Kolarov, D. Exerowa, Thinning of microscopicfoam films formed from a mixture of bovine serum albumin and Pluronic L62, Colloidsand Surfaces A: Physicochemical and Engineering Aspects 149(1999)179-184.

406. J. Angarska, D. Ivanova, A. Gerasimova, K. Balashev, Competitive adsorption of bovine serum albumin and n-dodecyl- β -D-maltoside in foam films, Colloids Surf.A Physicochem.Eng.Asp. 460, 2014, 286-298.

(1928)Petrova M., Stefanov Y., Noncheva Z., Dobrev Ts., Rashkov St., “Electrochemical behaviour of lead alloys as anodes in zinc electrowinning”, British Corrosion Journal, 34(3)(1999)198-200.

407. Zhang, Y.-C., Chen, B.-M., Yang, H.-T., Huang, H., Guo, Z.-C., “Anodic behavior and microstructure of Al/Pb-Ag-Co anode during zinc electrowinning”, Journal of Central South University21(1)(2014)83-88
408. Zhang, Y.-C., Chen, B.-M., Yang, H.-T., Guo, Z.-C., Xu, R.-D., “Anodic behavior and microstructure of Al/Pb-Ag anode during zinc electrowinning”, Transactions of Nonferrous Metals Society of China(English Edition)24(3)(2014)893-899

(1934)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)(1999)223-230.

409. Zhang, Y.-C., Chen, B.-M., Yang, H.-T., Huang, H., Guo, Z.-C., ”Anodic behavior and microstructure of Al/Pb-Ag-Co anode during zinc electrowinning”, Journal of Central South University21(1)(2014)83-88
410. Zhang, Y., Chen, B., Guo, Z. “Electrochemical properties and microstructure of Al/Pb-Ag and Al/Pb-Ag-Co anodes for zinc electrowinning”, Acta Metallurgica Sinica(English Letters)27(2)(2014)331-337

(1938)R. Sedev, D. Exerowa, DLVO and non-DLVO surface forces in foam films fromamphiphilic block copolymers, Advances in Colloid and Interface Science 83(1999)111-136.

411. Terziyski, L. Alexandrova, I. Stoineva, N. Christova, R. Todorov, R. Cohen, Foam and wetting films from rhamnolipids produced by Pseudomonas aeruginosa BN10, Colloids Surf.A Physicochem.Eng.Asp. 460, 2014, 299-305.

(1941)P Stefanov, D Stoychev, M Stoycheva, AR Gonzalez-Elipe, Ts Marinova, XPS, SEM and TEM characterization of stainless-steel 316L surfaces after electrochemical etching and oxidizing, Surface and interface analysis, 28, 1,(1999)106-110, Online ISSN: 1096-9918

412. Henry Ajo, Donnie Blankenship, Elliot Clark, Analysis of Passivated A-286 Stainless Steel Surfaces for Mass Spectrometer Inlet Systems by Auger Electron and X-ray Photoelectron Spectroscopy and Scanning Electron Microscopy, Metallography, Microstructure, and Analysis, 3, 4(2014)263-271, ISSN: 2192-9262(Print)2192-9270(Online)

413. Г.Б.Атанасова, Дисертация “Доктор”, “Характеризиране на тънки оксидни филми, приложими за каталитични носители”, ИОНХ-БАН(2014)

(1948)L. Sziraki, A. Cziraki, Z. Vertesy, L. Kiss, V. Ivanova, G. Raichevski, S. Vitkova, S. Marinova, Ts. Marinova, Zn and Zn-Sn alloy coatings with and without chromate layers. Part I: Corrosion resistance and structural analysis, Journal of Applied Electrochemistry, Issue 8,(29)(1999), 927-937.

414. H. Kazimierzak, P. Ozga, A. Jalowiec, R. Kowalik. Tin-zinc alloy electrodeposition from aqueous citrate baths, Surface and Coatings Technology, 240,(2014), 311–319.

415. S. Fashu, C. D. Gu, J. L. Zhang, W. Q. Bai, X. L. Wang, J. P. Tu, Electrodeposition and characterization of Zn–Sn alloy coatings from a deep eutectic solvent based on choline chloride for corrosion protection, Surface and Interface Analysis, DOI: 10.1002/sia.5728, Wiley Online Library,(2014).

(1974)D.Kashchiev, “Nucleation: Basic Theory with Applications”, Butterworth-Heinemann, Oxford, 2000.

416. V. Agarwal, B. Peters, “Solute precipitate nucleation: a review of theory and simulation advances”, Adv. Chem. Phys. 155(2014)97.

417. V. Fodera, A. Zaccone, M. Lattuada, A. M. Donald, “Electrostatics controls the formation of amyloid-like superstructures in protein aggregation”, Phys. Rev. Lett. 111(2013)108105 (in Supplemental Material).

418. R. P. Lungu, R. Sartorio, “Spinodal Curve for the System Water+ 1-Pentanol+ 1-Propanol at 25° C”. J. Solution Chem. 43(2014)109.

419. D. Barahona, “Analysis of the effect of water activity on ice formation using a new thermodynamic framework”, Atmos. Chem. Phys. 14(2014)7665.

420. V. K. Saw, M. Gudala, G. Udayabhanu, A. Mandal, S. Laik, “Kinetics of methane hydrate formation and its dissociation in presence of non-ionic surfactant Tergitol”, J. Unconv. Oil Gas Resources 6(2014)54.

421. K. S. Glavatskiy, D. Bedeaux, “Curvature dependence of the interfacial heat and mass transfer coefficients”, J. Chem. Phys. 140(2014)104708.

422. G. Samanta, M. Kulkarni, “Efficient computation of population distribution of microdefects at any location in growing Czochralski silicon single crystals”, J. Cryst. Growth 393(2014)49.

423. C. W. Lo, C. C. Wang, M. C. Lu, “Spatial Control of Heterogeneous Nucleation on the Superhydrophobic Nanowire Array”, Adv. Function. Mater. 24(2014)1211.

424. D. S. van Putten, R. S. R. Sidin, R. Hagmeijer, “A comparison of cluster size distribution models in isothermal single component condensation”, Proc. IME, Part A: J. Power Energy 228(2014)110.

425. F. Otorola, J. M. Garcia-Ruiz, “Nucleation and growth of the Naica giant gypsum crystals”, Chem. Soc. Rev. 43(2014)2013.

426. D. Clause, C. Dalmazzone, “Freezing Within Emulsions: Theoretical Aspects and Engineering Applications”, Oil Gas Sci. Technol. 69(2014)415.

427. M. Kellermeier, A. Picker, A. Kempter, H. Colfen, D. Gebauer, “A Straightforward Treatment of Activity in Aqueous CaCO₃ Solutions and the Consequences for Nucleation Theory”, Advanced Materials 26(2013)752.

428. A. V. Mokshin, B. N. Galimzyanov, “A method for analyzing the non-stationary nucleation and overall transition kinetics: A case of water”, J. Chem. Phys. 140(2014)024104.

429. T.J.Dursch, G.J.Trigub, R.Lujan, J.F.Liu, R.Mukundan, C.J.Radke, A.Z.Weber, "Ice-Crystallization Kinetics in the Catalyst Layer of a Proton-Exchange-Membrane Fuel Cell", *J.Electrochem.Soc.* 161(2014)F199.
430. G.V.Anikin, V.A.Vlasov, "Comparison of theories of ion-induced nucleation", *Russ.J.Phys.Chem. A* 88(2014)22.
431. N.Duff, Y.R.Dahal, J.D.Schmit, B.Peters, "Salting out the polar polymorph: Analysis by alchemical solvent transformation", *J.Chem.Phys.* 140(2014)014501.
432. H.Wu, M.White, R.T.Berendt, R.Foringer, M.A.Khan, "Integrated process analytical technology approach for nucleation induction time measurement and nucleation mechanism assessment for a dynamic multicomponent pharmaceutical antisolvent crystallization system", *Industr.Eng.Chem.Res.* 53(2014)1688.
433. Y.Mikhlin, A.A.Karacharov, M.N.Likhatski, T.Podlipskaya, I.Zizak, "Direct observation of liquid pre-crystallization intermediates during the reduction of aqueous tetrachloroaurate by sulfide ions", *Phys.Chem.Chem.Phys.* 16(2014)4538.
434. A.Caridi, S.A.Kulkarni, G.Di Profio, E.Curcio, J.H. ter Horst, "Template Induced Nucleation of Isonicotinamide Polymorphs", *Cryst.Growth Des.* 14(2014)1135.
435. R.Xiao, N.Milikovic, E.N.Wang, R.Enright, "Heterogeneous Surfaces", US Patent No. 2014/0017456 A1(2014).
436. A.D.Rey, E.E.Herrera-Valencia, "Dynamic wetting model for the isotropic-to-nematic transition over a flat substrate", *Soft Matter* 10(2014)1611.
437. T.H.Zhang, X.Y.Liu, "Experimental modelling of single-particle dynamic processes in crystallization by controlled colloidal assembly", *Chem.Soc.Rev.* 43(2014)2324.
438. D.Barahona, "Analysis of the effect of water activity on ice formation using a new thermodynamic framework", *Atmos.Chem.Phys.Discuss.* 14(2014)1525.
439. D.Gebauer, M.Kellermeier, J.D.Gale, L.Bergstrom, H.Colfen, "Pre-nucleation clusters as solute precursors in crystallisation", *Chem.Soc.Rev.* 43(2014)2348.
440. Y.Kimura, H.Niinomi, K.Tsukamoto, J.M.Garcia-Ruiz, "In-situ live observation of nucleation and dissolution of sodium chlorate nanoparticles by Transmission Electron Microscopy", *J.Amer.Chem.Soc.* 136(2014)1762.
441. V.G.Karpov, "Electrostatic theory of metal whiskers", *Phys.Rev.Appl.* 1(2014)044001.
442. J.Jo, H.Yoo, S.I.Park, J.B.Park, S.Yoon, M.Kim, G.C.Yi, "High-Resolution Observation of Nucleation and Growth Behavior of Nanomaterials Using a Graphene Template", *Advanced Materials* 26(2014)2011.
443. R.Angelil, J.Diemand, K.K.Tanaka, H.Tanaka, "Properties of Liquid Clusters in Large-scale Molecular Dynamics Nucleation Simulations", *J.Chem.Phys.* 140(2014)074303.
444. L.Lupi, A.Hudait, V.Molinero, "Heterogeneous Nucleation of Ice on Carbon Surfaces", *J.Am.Chem.Soc.* 136(2014)3156.
445. M.J.W.Povey, "Crystal nucleation in food colloids", *Food Hydrocolloids* 42(Part 1)(2014)118.
446. N.M.Kortsenshtein, A.K.Yastrebov, "Condensation relaxation of supersaturated vapor with allowance of the temperature distribution function of droplets", *Doklady Physics* 59(2014)1.
447. S.Prestipino, A.Laio, E.Tosatti, "Shape and area fluctuation effects on nucleation theory", *J.Chem.Phys.* 140(2014)094501.
448. D.E.Rosner, M.Arias-Zugasti, "Surface Energy Evolution'(SEE)in Pharmaceutical Powder Micronization'Using Compressed Gas Anti-Solvent(Re-)Precipitation(GASP)", *Industr.Eng.Chem.Res.* 53(2014)4489.
449. D.J.Sherwood, A.Eduardo Saez, "The start of ebullition in quiescent, yield-stress fluids", *Nuclear Eng.Design* 270(2014)101.
450. P.G.Vekilov, M.A.Vorontsova, "Nucleation precursors in protein crystallization", *Acta Crystallogr. F* 70(2014)271.
451. R.Enright, N.Miljkovic, J.L.Alvarado, K.Kim, J.W.Rose, "Dropwise Condensation on Micro-and Nanostructured Surfaces", *Nanoscale Microscale Thermophys.Eng.* 18(2014)223.

452. B.S.Lee, K.Darmawikarta, S.Raoux, Y.H.Shih, Y.Zhu, S.G.Bishop, J.R.Abelson, "Distribution of nanoscale nuclei in the amorphous dome of a phase change random access memory", *Appl.Phys.Let.* 104(2014)071907.
453. D.Preisig, D.Haid, F.J.O.Varum, R.Bravo, R.Alles, J.Huwlyer, M.Puchkov, "Drug loading into porous calcium carbonate microparticles by solvent evaporation", *Eur.J.Pharmac.Biopharmac.* 87(2014)548.
454. V.G.Dubrovskii, N.V.Sibirev, "Size distributions, scaling properties, and Bartelt-Evans singularities in irreversible growth with size-dependent capture coefficients", *Phys.Rev. B* 89(2014)054305.
455. A.H.Nguyen, V.Molinero, "Cross-nucleation between clathrate hydrate polymorphs: Assessing the role of stability, growth rate, and structure matching", *J.Chem.Phys.* 140(2014)084506.
456. V.Agarwal, B.Peters, "Nucleation near the eutectic point in a Potts-lattice gas model", *J.Chem.Phys.* 140(2014)084111.
457. B.J.Block, D.Deb, F.Schmitz, A.Statt, A.Troster, A.Winkler, T.Zykova-Timan, P.Virnau, K.Binder, "Computer simulation of heterogeneous nucleation of colloidal crystals at planar walls", *Eur.Phys.J.: Spec.Topics* 223(2014)347.
458. B.B.Schroeder, D.D.Harris, S.T.Smith, D.O.Lignell, "Theoretical Framework for Multiple-Polymorph Particle Precipitation in Highly Supersaturated Systems", *Cryst.Growth Des.* 14(2014)1756.
459. M.Muramatsu, Y.Aoyagi, Y.Tadano, K.Shizawa, "Phase-field simulation of static recrystallization considering nucleation from subgrains and nucleus growth with incubation period", *Comput.Materials Sci.* 87(2014)112.
460. D.Bhattacharya, M.Bosman, V.R.S.S.Mokkupati, F.Y.Leong, U.Mirsaidov, "Nucleation Dynamics of Water Nanodroplets", *Microscopy Microanalysis* 20(2014)407.
461. A.McPherson, Y.G.Kuznetsov, "Mechanisms, kinetics, impurities and defects: consequences in macromolecular crystallization", *Acta Crystallographica F* 70(2014)384.
462. N.V.Sibirev, V.G.Dubrovskii, A.V.Matetskiy, L.V.Bondarenko, D.V.Druznev, A.V.Zotov, A.A.Saranin, "Size distributions of fullerene surface clusters", *Appl.Surf.Sci.* 307(2014)46.
463. R.A.Sullivan, R.J.Davey, G.Sadiq, G.Dent, K.R.Back, J.H. ter Horst, D.Toroz, R.B.Hammond, "Revealing the roles of desolvation and molecular self assembly in crystal nucleation from solution: benzoic and p-aminobenzoic acids.", *Cryst.Growth Des.* 14(2014)2689.
464. N.D.Rimbert, L.Claudotte, P.Gardin, J.Lehmann, "Modeling the Dynamics of Precipitation and Agglomeration of Oxide Inclusions in Liquid Steel", *Industr.Eng.Chem.Res.* 53(2014)8630.
465. C.Yang, Y.Tian, T.Qu, B.Yang, B.Xu, Y.Dai, "Analysis of the behavior of magnesium and CO vapor in the carbothermic reduction of magnesia in a vacuum", *J.Magnes.Alloys* 2(2014)50.
466. M.R.Talaghat, "Evaluation of various types' equations of state for prediction of rate of double gas hydrate formation based on Kashchiev model in flow loop apparatus", *J.Natur.Gas Sci.Eng.* 18(2014)385.
467. S.A.Kukushkin, A.V.Osipov, N.A.Feoktistov, "Synthesis of epitaxial silicon carbide films through the substitution of atoms in the silicon crystal lattice: A review", *Phys.Solid State* 56(2014)1507.
468. S.Auer, "Amyloid Fibril Nucleation: Effect of Amino Acid Hydrophobicity", *J.Phys.Chem. B* 118(2014)5289.
469. X.-X.Zhang, M.Chen, "Influence of Homogeneous Electric Field on the Structure and Growth of the Ice", *Acta Physicochim.Sin.* 30(2014)1208.
470. M.H.Nielsen, D.Li, H.Zhang, S.Aloni, T.Y.-J.Han, C.Frandsen, J.Seto, J.F.Banfield, H.Colfen, J.J.De Yoreo, "Investigating Processes of Nanocrystal Formation and Transformation via Liquid Cell TEM", *Microscopy Microanalysis* 20(2014)425.
471. K.Binder, "Simulations of Interfacial Phenomena in Soft Condensed Matter and Nanoscience", *J.Phys.Conf.Ser.* 510(2014)012002.

472. A.Calzavara, "Artificial biomineralisation of flax fibres in the presence of amino acids for use in natural fibre reinforced composites", M.Sc.Thesis, Universita degli Studi di Padova, Padova, 2014.
473. M.Forgione, "Batch-to-batch learning for model-based control of process systems with application to cooling crystallization", M.Sc.Thesis, Delft University of Technology, Delft, 2014.
474. F.Schmitz, P.Virnau, K.Binder, "Logarithmic finite-size effects on interfacial free energies: Phenomenological theory and Monte Carlo studies", *Phys.Rev. E* 90(2014)012128.
475. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the measured metastable zone width by the polythermal method", *J.Cryst.Growth* 402(2014)267.
476. W.Xu, Z.Lan, B.Peng, R.Wen, X.Ma, "Evolution of transient cluster/droplet size distribution in heterogeneous nucleation process", *RSC Advances* 4(2014)31692.
477. D.Clausse, E.Y.Wardhono, J.L.Lanoiselle, "Formation and determination of the amount of ice formed in water dispersed in various materials", *Colloids Surfaces A* 460(2014)519.
478. S.A.Kukushkin, A.V.Osipov, "Theory and practice of SiC growth on Si and its applications to wide-gap semiconductor films", *J.Phys.D: Appl.Phys.* 47(2014)313001.
479. S.R.Wilson, M.I.Mendeleev, "Dependence of solid-liquid interface free energy on liquid structure", *Modelling Simul.Mater.Sci.Eng.* 22(2014)065004.
480. Y.Li, W.Ren, "Numerical Study of Vapor Condensation on Patterned Hydrophobic Surfaces Using the String Method", *Langmuir* 30(2014)9567.
481. W.Yu, X.Yi, C.D.Wright, "Analysis of crystallization behaviour of ge2sb2te5 used in optical and electrical memory devices", *J.Chem.Pharmaceut.Res.* 6(2014)415.
482. L.Li, P.Jahanian, G.Mao, "Electrocrystallization of Tetrathiafulvalene Charge-transfer Salt Nanorods on Gold Nanoparticle Seeds", *J.Phys.Chem. C* 118(2014)18771.
483. V.Abdelsayed, M.S.El-Shall, "Direct observation of metal nanoparticles as heterogeneous nuclei for the condensation of supersaturated organic vapors: Nucleation of size-selected aluminum", *J.Chem.Phys.* 141(2014)054710.
484. X.Jiang, M.Li, G.He, J.Wang, "Research Progress and Model Development of Crystal Layer Growth, Impurity Distribution in Layer Melt Crystallization: a Review", *Industr.Eng.Chem.Res.* 53(2014)13211.
485. M.R.Ward, "Non-photochemical laser-induced nucleation(NPLIN): An experimental investigation of crystal nucleation", Ph.D.Thesis, Edinburgh University, Edinburgh, 2014.
486. M.Ossorio, A.E.S.Van Driessche, P.Perez, J.M.Garcia-Ruiz, "The gypsum-anhydrite paradox revisited", *Chem.Geology* 386(2014)16.
487. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the induction time or metastable zone width data based on turbidity measurements", *Cryst.Eng.Comm.* 16(2014)9743.
488. O.Wilhelmsen, D.Bedeaux, S.Kjelstrup, D.Reguera, "Communication: Superstabilization of fluids in nanocontainers", *J.Chem.Phys.* 141(2014)071103.
489. J.Rieger, M.Kellermeier, L.Nicoleau, "Formation of Nanoparticles and Nanostructures - An Industrial Perspective on CaCO₃, Cement, and Polymers", *Angew. Chem. Intern. Edition* 53(2014)12380.
490. S.Verstringe, K.Dewettinck, S.Ueno, K.Sato, "Triacylglycerols crystal growth: templating effects of partial glycerols studied with synchrotron radiation microbeam X-ray diffraction", *Cryst.Growth Des.* 14(2014)5219.
491. S.K.Hu, Y.M.Chen, L.Chao, "Phase segregation of polymerizable lipids to construct filters for separating lipid-membrane-embedded species", *Biomicrofluidics* 8 (2014) 052005.
492. E.S.Thomson, X.Kong, P.Papagiannakopoulos, J.B.C.Pattersson, "Deposition mode ice nucleation reexamined at temperatures below 200 K", *Atmos.Chem.Phys.Discuss.* 14(2014)23711.
493. M.Ghosh, "Nucleation of charged droplets; an ion-atmosphere model", *RSC Advances* 4(2014)45275.
494. X.X.Zhang, M.Chen, M.Fu, "Impact of surface nanostructure on ice nucleation", *J.Chem.Phys.* 141(2014)124709.

495. H.Laine, "Modeling the Size Distribution of Iron Precipitates in Phosphorus-Implanted Silicon Solar Cells", M.Sc.Thesis, Aalto University, 2014.
496. O.-A.Karachalios, "Polymorphism in Core-Controlled Virus Self-Assembly: Thermodynamics vs Kinetics", M.Sc.Thesis, Utrecht University, Utrecht, 2014.
497. M.G.Ganchenkova, Y.N.Yagodzinsky, V.A.Borodin, H.Hanninen, "Effects of hydrogen and impurities on void nucleation in copper: simulation point of view", *Philos.Mag.* 94(2014)3522.
498. K.Binder, P.Virnau, A.Statt, "Perspective: The Asakura Oosawa model: A colloid prototype for bulk and interfacial phase behavior", *J.Chem.Phys.* 141(2014)140901.
499. S.Prestipino, "Cluster phases of penetrable rods on a line", *Phys.Rev. E* 90(2014)042306.
500. H.Hsu, M.T.Harris, "Impact of Surface Protonation on Crystallization", *J.Chem.Eng.Chem.Res.* 1(2014)147.
501. J.Diemand, R.Angelil, K.K.Tanaka, H.Tanaka, "Direct Simulations of Homogeneous Bubble Nucleation: Agreement with CNT and no Local Hot Spots", *Phys.Rev.E* 90(2014)052407.
502. A.A.Chernov, V.K.Kedrinsky, A.A.Pilnik, "Kinetics of gas bubble nucleation and growth in magmatic melt at its rapid decompression", *Phys.Fluids* 26(2014)116602.
503. Y.Yamada, T.Ikuta, T.Nishiyama, K.Takahashi, Y.Takata, "Droplet Nucleation on a Well-Defined Hydrophilic-Hydrophobic Surface of 10-nm Order Resolution", *Langmuir* 30(2014)14532.
504. T.Nemec, "Scaled nucleation theory for bubble nucleation of lower alkanes", *Eur.Phys.J. E* 37(2014)111.
505. B.J.Block, S.Kim, P.Virnau, K.Binder, "Anisotropic interfacial tension, contact angles, and line tensions: A graphics-processing-unit-based Monte Carlo study of the Ising model", *Phys.Rev. E* 90(2014)062106.
506. A.L.Beaudry, "Flux Directed Branched Nanowire Growth via VLS-GLAD", Ph.D.Thesis, University of Alberta, Edmonton, 2014.
507. Z.Kozisek, M.Hikosaka, K.Okada, P.Demo, "Crystal nucleation kinetics of polyethylene on active centers", *J.Cryst.Growth* 401(2014)56.
508. H.Yang, M.Svard, J.Zeglinski, A.C.Rasmuson, "Influence of solvent and solid-state structure on nucleation of parabens", *Cryst.Growth Des.* 14(2014)3890.
509. M.Horsch, H.Hasse, "Reprint of: Molecular simulation of nano-dispersed fluid phases", *Chem.Eng.Sci.* 115(2014)195.
510. E.Mourgliia-Seignobos, D.R.Long, L.Odoni, L.Vanel, P.Sotta, C.Rochas, "Physical mechanisms of fatigue in neat polyamide 6,6", *Macromolecules* 47(2014)3880.
511. A.Nenes, B.Murray, A.Bougiatioti, "Mineral Dust and its Microphysical Interactions with Clouds", in: "Mineral Dust: A Key Player in the Earth System", Eds. P.Knippertz, J.-B.W.Stuut, Springer, Dordrecht, 2014, p.287.
512. E.Luna-Ortiz, M.Healey, R.Anderson, E.Sorhaug, "Crystal growth inhibition studies for the qualification of a kinetic hydrate inhibitor under flowing and shut-in conditions", *Energy Fuels* 28(2014)2902.
513. S.Kudera, L.Manna, "Bottom-Up Synthesis of Nanosized Objects", in: "Colloidal Foundations of Nanoscience", Eds. D.Berti, G.Palazzo, Elsevier, Amsterdam, 2014, p.47.
514. V.B.Shah, P.Biswas, "Aerosolized droplet mediated self-assembly of photosynthetic pigment analogues and deposition onto substrates", *ACS Nano* 8(2014)1429.
515. N.I.Grigorchuk, V.G.Karpov, "Light induced nucleation of metallic nanoparticles with frequency controlled shapes", *Appl.Phys.Lett.* 105(2014)223103.
516. X.F.Lv, J.Gong, W.Q.Li, B.H.Shi, D.Yu, H.H.Wu, "Experimental study on natural-gas-hydrate-slurry flow", *SPE Journal* 19(2014)206.
517. T.Waitz, W.Schranz, A.Troster, "Nanoscale Phase Transformations in Functional Materials", in: "Mesoscopic Phenomena in Multifunctional Materials", Ed. A.Saxena, A.Planes, Springer, Heidelberg, 2014, p.23.

518. M.Gomez, N.Luigi, “Adapting the condensation and evaporation model to the study of kinetics of phase transformations in binary metal systems”, *J.Comput.Methods Sci.Eng.* 14(2014)179.
519. K.S.Schmid, J.Gross, R.Helmig, “Chemical osmosis in two-phase flow and salinity-dependent capillary pressures in rocks with microporosity”, *Water Resourc.Res.* 50(2014)763.
520. V.G.Dubrovskii, J.Grecenkov, “Recipes for crystal phase design in Au-catalyzed III-V nanowires”, *J.Phys.Conf.Ser.* 541(2014)012001.
521. M.Horsch, H.Hasse, “Molecular simulation of nano-dispersed fluid phases”, *Chem.Eng.Sci.* 107(2014)235.
522. V.G.Dubrovskii, “Nucleation Theory and Growth of Nanostructures”, Springer, Berlin, 2014.
523. Z.Lu, “Understanding Dynamics in Thin-Film Spherical Crystallization of Active Pharmaceutical Ingredients from Microfluidic Emulsion”, M.Sc.Thesis, National University of Singapore, Singapore, 2014.
524. V.I.Khvorostyanov, J.A.Curry, “Thermodynamics, Kinetics, and Microphysics of Clouds”, Cambridge Univ. Press, New York, 2014.
525. F.Schmitz, P.Virnau, K.Binder, “Determination of the Origin and Magnitude of Logarithmic Finite-Size Effects on Interfacial Tension: Role of Interfacial Fluctuations and Domain Breathing”, *Phys.Rev.Lett.* 112(2014)125701.
526. F.Schmitz, “Computer simulation methods to study interfacial tensions: from the Ising model to colloidal crystals”, Ph.D.Thesis, Johannes-Gutenberg Universitat Mainz, Mainz, 2014.
527. W.W.Laxson, R.G.Finke, “Nucleation is Second Order: An Apparent Kinetically Effective Nucleus of Two for Ir(0)n Nanoparticle Formation from [(1, 5-COD)Ir]· P2W15Nb3O62] 8–Plus ...”, *J.Am.Chem.Soc.* 136(2014)17601.
528. Q.Wu, L.Guo, J.Chen, Y.Li, A.Lu, “Process simulation of anchor stirring in crystallizer”, *Adv.Mater.Res.*835-836(2014)1548.

(1986)I Avramov, Pressure Dependence of Viscosity of Glassforming Melts J. Non-Crystalline Solids 262(2000) 258-263 ISSN 0022-3093

529. Casalini, R.; Roland, C. M., Effect of regioisomerism on the local dynamics of polychlorostyrene. *MACROMOLECULES*, 47(12):4087-4093; 10.1021/ma5008495 JUN 24 2014
530. Casalini, R; Roland, CM, , Determination of the thermodynamic scaling exponent for relaxation in liquids from static ambient-pressure quantities. *PHYSICAL REVIEW LETTERS*, 113(8):10.1103/PhysRevLett.113.085701 AUG 18 2014
531. Wojnarowska, Z; Jarosz, G; Grzybowski, A; Pionteck, J; Jacquemin, J; Paluch, M, On the scaling behavior of electric conductivity in [C4mim][NTf2] *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, 16(38):20444-20450; 10.1039/c4cp02253j 2014
532. Kaminska, E., Tarnacka, M., Kolodziejczyk, K., Dulski, M., Zakowiecki, D., Hawelek, L., .. & Kaminski, K. . Impact of low molecular weight excipient octaacetylmaltose on the liquid crystalline ordering and molecular dynamics in the supercooled liquid and glassy state of itraconazole. *European Journal of Pharmaceutics and Biopharmaceutics* 88(2014)1094-1104.
533. Loerting, T., Fuentes-Landete, V., Handle, P. H., Seidl, M., Amann-Winkel, K., Gainaru, C., & Böhmer, R. The glass transition in high-density amorphous ice. *Journal of Non-Crystalline Solids.* 427(2014)403-430
534. Grzybowska, K., Grzybowski, A., Pawlus, S., Pionteck, J., & Paluch, M.(2014). A role of entropy in the thermodynamic evolution of the time scale of molecular dynamics near the glass transition. arXiv 1406.4563.
535. Koperwas, K., Grzybowski, A., Grzybowska, K., Wojnarowska, Z., & Paluch, M.(2014). In search of correlations between the four-point measure of dynamic heterogeneity and other

characteristics of glass-forming liquids under high pressure. *Journal of Non-Crystalline Solids* 407(2014)196-205

536. Casalini, R., & Roland, C. M.(2014). Determination of the Thermodynamic Scaling Exponent from Static, Ambient-Pressure Quantities. arXiv :1403.4551.

(1982)S. Armyanov, Crystallographic Structure and Magnetic Properties of Electrodeposited Cobalt and Cobalt Alloys, *Electrochimica Acta*, 45(2000)3323-3335

537. H. Kockar, E. Ozergin, O. Karaagac, M. Alper, Characterisations of CoFeCu films: Influence of Fe Concentration, *J. Alloys & Compounds*, 586, 2014, Supplement 1, S326-S330.
538. H.-Y. Ho, W.-b. Chen, T.-Y. Fu, S.-J. Chen, On the Electrodepositing of Cobalt Nanoparticles on ITO in the Presence of Boric Acid, *IEEE Transact. on Magnetics*, 50, 2014, art.# 2100304,4 pages.
539. S. Kauffmann-Weiss, R. Krause, C. Behler, L. Schultz, S Faehler, Structure and magnetism of epitaxial Fe-Ga films, Poster, presented at IEEE Intern. Magnetic Conference, Dresden Germany, May 4-8 2014
540. L. V. Kozhitov, D. G. Muratov, S. G. Emelyanov, V. G. Kostishin1, E. V. Yakushko1, A. G. Savchenko, I. V. Schetin, E. P. Mosyakina, The Structure and Magnetic Properties Metal-carbon Nanocomposites NiCo/C on Based of Polyacrylonitrile, *J. Nano- Electronic Phys.*, 6,2014, 03040, 3pages.
541. Юрий Васильевич Никулин, Модификация структурных и магнитных свойств тонких пленок ферромагнитных металлов, наносимых на аморфные и монокристаллические подложки для приборов магнитоэлектроники, Дисс. на соиск. уч. степ. кандидата физико–математических наук, Ин-т радиотехники и электроники, им. В. А. Котельникова, РАН, Саратов, Россия, 2014.
542. J. Alkhatib, M. Muhammad, I. Y. Habib, I. M. Idris, A. Adamu, S. S. Bala, Environmental assessment of cobalt at wudil, Kano state Nigeria, *European Scientific Journal*, 10,2014, 80-85.
543. Franczak, A. Levesque, M. Coisson, D. Li, G. Barrera, F. Celegato, Q. Wang, P. Tiberto, J.-P. Chopart, Magnetic properties dependence on the coupled effects of magnetic fields on the microstructure of as-deposited and post-annealed Co/Ni bilayer thin films, *J. Magnet. Mater.*, 372, 2014,159–166.
544. N. Ouar, M. Ali Bousnina, F. Schoenstein, S. Mercone, O. Brinza, S. Farhat, N. Jouini, Spark plasma sintering of Co₈₀Ni₂₀ nanopowders synthesized by polyol process and their magnetic and mechanical properties, *J. Alloys Compounds*, 615, 2014, Suppl. 1, S269-S275.
545. Dobosz, W. Gumowska, M. Czapkiewicz, Structure and magnetic properties of Co nanowires electrodeposited into the pores of anodic alumina membranes, *J. Solid State Electrochem*, 18, 2014, 2963–2972.
546. Zhu-Xiang Tang, Investigating the Effect of Electrodeposited Co-Ni/ITO on the Hydrogen Evolution Reaction, Thesis, Natural Sciences Department of Education, National Taipei University of Education, Taiwan, 01-07-2014.
547. H. Ben Temam, E. Guettaf Temam, Effect of applied current densities on electrodeposited ni- mo composite coatings, *Courrier du Savoir*, 18, 2014, 27-30.
548. Zhu-Xiang Tang, Investigating the Effect of Electrodeposited Co-Ni/ITO on the Hydrogen Evolution Reaction, Thesis, National Taipei University of Education 2014-07-01
549. D. Li, A.-L. Daltin, Q. Wang, J.-P. Chopart, J. He, Morphology and microstructure evolution of cobalt ferrite thin films prepared by one-step magneto-electrodeposition, 9th International Conference on Fundamental and applied MHD, Space TRIPS Thermo acoustic and Space technologies, pp. 179-183, Riga, Latvia, June 16-20, 2014, http://pamir.sal.lv/2014/cd/container/E.2.09=Donggang%20Li_Pamir14.pdf

(1987)I. Avramov, G. Guinev, A.C.M. Rodrigues, Thermal Analysis Of Li₂O Teo₂ Glass J. Non-Cryst. Solids 271(2000)12-17 ISSN 0022-3093

550. Souri D., Crystallization kinetic of Sb–V₂O₅–TeO₂ glasses investigated by DSC and their elastic moduli and Poisson's ratio, *Physica B: Condensed Matter* 456 pp. 185 – 190, 2014
- (1999)I. Gutzow, D. Ilieva, F. Babalievski, V. Yamakov, Thermodynamics and kinetics of the glass transition: A generic geometric approach, J. Chem. Phys. 112, 24, 2000, 10941-10948.**
551. M. Repka, A. Lion, Simulation of the coupled thermo-elastic behaviour of constrained films in differential scanning calorimetry using the finite element method, *Thermochim. Acta* 581, 2014, 62-69.
- (2002)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)109-124**
552. Yang, H., Chen, B., Liu, H., Guo, Z., Zhang, Y., Li, X., Xu, R., “Effects of manganese nitrate concentration on the performance of an aluminum substrate β -PbO₂-MnO₂-WC-ZrO₂ composite electrode material”, *Copper refining electrolyte and slime processing - Emerging techniques*(Conference Paper), *Advanced Materials Research*828(2014)93-115
553. Yu, Q., Chen, Z., Fan, Y.-Y., Wei, C., Liang, M.-Y., Wen, D.-K., “Influence of nano-ZrO₂ on PbO₂-CeO₂-ZrO₂ anode materials” *Cailiao Gongcheng/Journal of Materials Engineering*5(2014)40-45
554. Zhang, Y., Chen, B., Guo, Z., “Electrochemical properties and microstructure of Al/Pb-Ag and Al/Pb-Ag-Co anodes for zinc electrowinning”, *Acta Metallurgica Sinica(English Letters)*27(2)(2014)331-337
555. Nakisa, Sh., Parvini Ahmadi, N., Moghaddam, J., “Electrochemical study of Pb anodes for zinc electrowinning industry”, *Surface Engineering*30(9)(2014)650-655
- (2003)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)125-139**
556. Zhang, Y., Chen, B., Guo, Z., Electrochemical properties and microstructure of Al/Pb-Ag and Al/Pb-Ag-Co anodes for zinc electrowinning, *Acta Metallurgica Sinica(English Letters)* 27(2)(2014)331-337.
557. Yu, Q., Chen, Z., Fan, Y.-Y., Wei, C., Liang, M.-Y., Wen, D.-K., Influence of nano-ZrO₂ on PbO₂-CeO₂-ZrO₂ anode materials, *Cailiao Gongcheng/Journal of Materials Engineering*5(2014)40-45.
558. Zhang, Y.-C., Chen, B.-M., Yang, H.-T., Huang, H., Guo, Z.-C., Anodic behavior and microstructure of Al/Pb-Ag-Co anode during zinc electrowinning, *Journal of Central South University*, 21(1)(2014)83-88.
559. Yang, H.T., Guo, Z.C., Chen, B.M., Liu, H.R., Zhang, Y.C., Huang, H., Li, X.L., Fu, R.C., Xu, R.D, Electrochemical behavior of rolled Pb-0.8%Ag anodes in an acidic zinc sulfate electrolyte solution containing Cl⁻ ions, *Hydrometallurgy*, 147-148(2014)148-156
560. Peng, C., Hu, D., Chen, G.Z., Achieving low voltage half electrolysis with a supercapacitor electrode, *Energy and Environmental Science*, 7(3)(2014)1018-1022
- (2008)Georgios Kokkinidis, Achilleas Papoutsis, Dimiter Stoychev, Alexander Milchev, Electroless deposition of Pt on Ti — catalytic activity for the hydrogen evolution reaction, *Journal of Electroanalytical Chemistry* , 486, 1(2000)48–55 ISSN: 1572-6657**
561. Steven E. F. Kleijn, Dr. Stanley C. S. Lai, Prof. Dr. Marc T. M. Koper and Prof. Dr. Patrick R. Unwin, *Electrochemistry of Nanoparticles*, *Angewandte Chemie International Edition*, 53, 14(2014)3558–3586 ISSN 1433-7851, DOI: 10.1002/anie.201306828

562. Reza Ojani, Jahan-Bakhsh Raouf, Mona Goli, Roudabeh Valiollahi, Pt-Co nanostructures electrodeposited on graphene nanosheets for methanol electrooxidation, *Journal of Power Sources*, 264, 15(2014)76–82, ISSN: 0378-7753
563. Sarvesh Kumar Srivastava, Jonathan Sabaté del Ríob, Ciara K. O'Sullivan, Chiaki Ogino and Akihiko Kondo, Electro-catalytically active Au-Pt nanoparticles for hydrogen evolution reaction: an insight into a tryptophan mediated supramolecular interface towards a universal core-shell synthesis approach, *The Royal Society of Chemistry*, 4,(2014)48458-48464 ISSN: 1473-7604
564. Mohammed A. Amin, Sahar A. Fadlallah and Ghaida S. Alosaimia, Activation of Titanium for Synthesis of Supported and Unsupported Metallic Nanoparticles, *J. Electrochem. Soc.* 161, 12(2014)D672-D680 Print ISSN: 0013-4651; Online ISSN: 1945-7111
565. Steven E. F. Kleijn, Dr. Stanley C. S. Lai, Prof. Dr. Marc T. M. Koper, and Prof. Dr. Patrick R. Unwin, *Elektrochemie von Nanopartikeln, Angewandte Chemie*, 126, 14(2014)3630–3660 Online ISSN: 1521-3757, DOI: 10.1002/ange.201306828
566. Maijenburg, Albert Wouter(2014), Templated electrodeposition of functional nanostructures: nanowires, nanotubes and nanocubes, PhD Thesis, University of Twente Enschede, The Netherlands, ISBN: 978-90-365-3603-5, DOI: 10.3990/1.9789036536035
567. M. Amal Raj and S. Abraham John, Assembly of gold nanoparticles on graphene film via electroless deposition: spontaneous reduction of Au³⁺ ions by graphene film, *RSC Adv.*, 2015, 5, 4964-4971, DOI: 10.1039/C4RA11848K, © Royal Society of Chemistry 2014 Registered charity number: 207890

(2009) Korutcheva E., Turiel A.M., Markov I., Coherent Stranski-Krastanov growth in 1+1 dimensions with anharmonic interactions: An equilibrium study, 2000, Physical Review B - Condensed Matter and Materials Physics, (24)16890-16901

568. Chhikara, M., Pavlica, E., Matković, A., Gajić, R., Bratina, G., Effect of water layer at the SiO₂/graphene interface on pentacene morphology, *Langmuir* 30(39), 2014, 11681-11688
(2012) M. Michailov, D. Kashchiev, Thermal rupture of monatomic metal nanowires, Journal of Physics: CS, 398(1), art. no.012010. doi: 10.1088/1742-6596/398/1/012010

569. Shilyaeva, Y.I.a, Bardushkin, V.V.a, Gavrilov, S.A.a, Silibin, M.V.a, Yakovlev, V.B.a, Borgardt, N.I.a, Volkov, R.L.a, Smirnov, D.I.a, Zheludkevich, M.L., Melting temperature of metal polycrystalline nanowires electrochemically deposited into the pores of anodic aluminum oxide, *Physical Chemistry Chemical Physics*, Volume 16, Issue 36, 28 September 2014, Pages 19394-19401

(2026) Petrova M., Noncheva Z.B., Petrov C., Schmidt C. Stromlos abgeschiedene nickel-dispersionsschichten auf kunststoffen: Teil II: Nanoskalige dispersoide, Galvanotechnik 91(12)(2000)3378-3384.

570. Zhang, H., Zou, J., Lin, N., Tang, B., Review on electroless plating ni-p coatings for improving surface performance of steel, *Surface Review and Letters* 21(4)(2014)№ 1430002

(2029) J.W.P. Schmelzer, J. Schmelzer Jr., I.S. Gutzow, Reconciling Gibbs and van der Waals: A new approach to nucleation theory, J. Chem. Phys. 112, 8, 2000, 3820-3831.

571. L.O. Hedges, R.V. Mannige, S. Whitlam, Growth of equilibrium structures built from a large number of distinct component types, *Soft Matter* 10, 34, 2014, 6404-6416.

(2092) K. Khristov, B. Jachimska, K. Malysa, D. Exerowa, 'Static' and steady-state foams from ABA triblock copolymers: Influence of the type of foam films, Colloids and Surfaces A: Physicochemical and Engineering Aspects 186(2001)93-101.

572. W.X. Cheng, X.K. Xing, L.L. Zuo, S. Zhang, R.Y. Sun, S.G. Wang, Reviews on testing methods of liquid foam performance, *Oilfield Chem.* 31, 2014, 152-158.
573. J. Lee, A. Nikolov, D. Wasan, Foam stability: The importance of film size and the micellar structuring phenomenon, *Can.J.Chem.Eng.* 92, 2014, 2039-2045.
- (2093)G. Kokkinidis, D. Stoychev, V. Lazarov, A. Papoutsis, A. Milchev, Electroless deposition of Pt on Ti. Part II. Catalytic activity for oxygen reduction, J. Electroanal. Chem., 511(2001)20-30, ISSN: 1572-6657.**
574. J. Nutariya, M. Fayette, N. Dimitrov, N. Vasiljevic, *Electrochimica Acta*112(2013)813–823
- (2101)Formation of block copolymer micelles in solution: A Monte Carlo study chain length dependence, Milchev, A; Bhattacharya, A; Binder, K, MACROMOLECULES Volume: 34 Issue: 6 Pages: 1881-1893 Published: MAR 13 2001**
575. Aggregation of theta-polymers in spherical confinement, J. Zierenberg, M. Mueller, P. Schierz, M. Marenz, W. Janke *JOURNAL OF CHEMICAL PHYSICS* Volume: 141 Issue: 11 Article Number: 114908 Published: SEP 21 2014
576. Autocorrelation study of the Theta transition for a coarse-grained polymer model, Qi, Kai; Bachmann, Michael, *JOURNAL OF CHEMICAL PHYSICS* Volume: 141 Issue: 7 Article Number: 074101 Published: AUG 21 2014
577. Identifying transitions in finite systems by means of partition function zeros and microcanonical inflection-point analysis: A comparison for elastic flexible polymers, Rocha, Julio C. S.; Schnabel, Stefan; Landau, David P.; *PHYSICAL REVIEW E* Volume: 90 Issue: 2 Article Number: 022601 Published: AUG 4 2014
578. L. Li, Z. Li, C. Fu, Z. Sun, L. An, Computer simulation of micellization for ring-like block copolymers. *Gaodeng Xuexiao Huaxue Xuebao* 35(2014)168-174.
579. T. Zinn, L. Willner, R. Lund, V. Pipich, M.S. Appavou, D. Richter, Surfactant or block copolymer micelles? Structural properties of a series of well-defined n-alkyl-PEO micelles in water studied by SANS. *Soft Matter* 10(2014)5212-52
- (2104)E. Mileva, D. Exerowa, P. Tchoukov, Black dots as a detector of self-assembly in thin liquid films, Colloids and Surfaces A: Physicochemical and Engineering Aspects 186,(2001)83-92.**
580. Стефан Стоянов, “Взаимодействие на липополизахариди и четириантенни олигоглицини във водна среда”, Дипломна работа ОС “магистър”, СУ „Св. Климент Охридски” 2014.
- (2121)D. Tachev, J. Georgieva, S. Armyanov, Magnetothermal Study of the Nanocrystalline Particles Formation in Amorphous Electroless Ni-P and Ni-Me-P Alloys, Electrochimica Acta, 47(2001)359-369**
581. Ş. Tălu, S. Stach, A. Méndez, G. Trejo, M. Tălu, Multifractal Characterization of Nanostructure Surfaces of Electrodeposited Ni-P Coatings, *J. Electrochem. Soc.*, 161, 2014, D44-D47.
582. Ruffini, L. A. Hamilton, D. Buechel-rimmel, J. M. Laplante, A. Schaffer, F. K. Lowes, Electroless coated disks for high temperature applications and methods of making the same, United States Patent 8828482(2014).
- (2034)P Stefanov, D Stoychev, M Stoycheva, Ts Marinova, XPS and SEM studies of chromium oxide films chemically formed on stainless steel 316 L, Materials Chemistry and Physics, 65, 2(2000)212-215, ISSN: 0254-0584**
583. S. M. Sayyah, A. B. Khaliel, Ahmed A. Aboud, and S. M. Mohamed, Chemical Polymerization Kinetics of Poly-O-Phenylenediamine and Characterization of the Obtained Polymer in Aqueous Hydrochloric Acid Solution Using K₂Cr₂O₇ as Oxidizing Agent, *International Journal of Polymer Science*,(2014), Article ID 520910, 16 pages

584. Zhiming Zhang, Jianqiu Wang, En-Hou Han, Wei Ke, Analysis of Surface Oxide Films Formed in Hydrogenated Primary Water on Alloy 690TT Samples With Different Surface States, *Journal of Materials Science & Technology*,(2014), ISSN: 1005-0302
585. Jacek Ryl, Anna Arutunow, Mateusz T. Tobiszewski, Joanna Wysocka, Aspects of intergranular corrosion of AISI 321 stainless steel in high-carbon-containing environments, *Anti-Corrosion Methods and Materials*, 61, 5(2014)328 – 333, ISSN: 0003-5599
586. DUAN Zhengang, DU Donghai, WANG Li, ZHANG Lefu, XU Xuelian, SHI Xiuqiang, General Corrosion Behavior of Alloy 690 and Alloy 800 in Zn Containing PWR Primary Water, *Corrosion Science and Protection Technology*, 2014, ISSN: 1743-2782(online).
587. DUAN Zhengang, ZHANG Lefu, WANG Li, XU Xuelian, SHI Xiuqiang, Effect of Zn Addition on Composition of Oxide Films Formed on 304 Austenitic Stainless Steel in Simulated Primary Waters for PWR, *Corrosion Science And Protection Technology*, 26, 3(2014)
588. Duan, Z., Zhang, L. , Wang, L., Xu, X., Shi, X., Effect of Zn addition on composition of oxide scales formed on 316L stainless steel in high-temperature and high-pressured water, *Journal of the Chinese Society of Corrosion and Protection*, 34, 3(2014)249-252
589. Г.Б.Атанасова, Дисертация “Доктор”, “Характеризиране на тънки оксидни филми, приложими за каталитични носители”, ИОНХ-БАН(2014)

(2035)P. Stefanov, D. Stoychev, I. Valov, Anelia Kakanakova-Georgieva, Ts. Marinova, Electrochemical deposition of thin zirconia films on stainless steel 316 L, *Materials Chemistry and Physics* 65, 2(2000)222-225, ISSN: 0254-0584

590. Andrea Montebelli, Carlo Giorgio Visconti, Gianpiero Groppi, Enrico Tronconi, Cinzia Cristiani, Cristina Ferreira and Stefanie Kohler, Methods for the catalytic activation of metallic structured substrates, *Catalysis Science & Technology*, 4(2014)2846-2870, ISSN 2044-4753
591. A.H. Gorji, A. Simchi, A.H. Kokabi, Development of composite silver/nickel nanopastes for low temperature joining of yttria-stabilized zirconia to stainless steels, *Ceramics International*, 41, 1, Part B(2015)1815–1822, ISSN: 0272-8842
592. Ghazvini, Mohammad, Compact integrated microchannel combustor, recuperator and heat exchanger For hydrogen storage applications, Dissertation, Oregon State University, URI: <http://hdl.handle.net/1957/43337>, Graduation date: 2014
593. Г.Б.Атанасова, Дисертация “Доктор”, “Характеризиране на тънки оксидни филми, приложими за каталитични носители”, ИОНХ-БАН(2014)

(2047)V. Tsakova, S. Winkels and J. W. Schultze, Anodic polymerization of 3,4-ethylenedioxythiophene from aqueous microemulsions, *Electrochim. Acta*, 46(2000)759-768.

594. G.P. Pandey, A.C. Rastogi, C.R. Westgate, All-solid-state supercapacitors with poly(3,4-ethylenedioxythiophene)- coated carbon fiber paper electrodes and ionic liquid gel polymer electrolyte, *J. Power Sources*, 245 , 2014, 857-865.
595. Sh. Gu, X.P. Wang, Y.Zh. Wei, B.Z. Fang, Mechanism for nucleation and growth of electrochemical deposition of palladium(II) on a platinum electrode in hydrochloric acid solution, *SCIENCE CHINA Chemistry* 57 , 2014, 755-762.
596. S.J. Devaki, N. K.Sadanandhan, R. Sasi, H.-J.P Adler, A. Pich Water dispersible electrically conductive poly(3,4-ethylenedioxythiophene)nanospindles by liquid crystalline template assisted polymerization, *J. Mater. Chem. C*, 2 ,2014, 6991-7000.

(2048)Dynamical monte carlo study of equilibrium polymers. II. The role of rings Wittmer, JP; van der Schoot, P; Milchev, A; J.L. Barrat, *JOURNAL OF CHEMICAL PHYSICS* Volume: 113 Issue: 16 Pages: 6992-7005 Article Number: PII [S0021-9606(00)50740-5] Published: OCT 22 2000

597. Cooe bitumen. II. Stability of linear asphaltene nanoaggregates Lemarchand, Claire A.; Schroder, Thomas B.; Dyre, Jeppe C.; JOURNAL OF CHEMICAL PHYSICS Volume: 141 Issue: 14 Article Number: 144308 Published: OCT 14 2014
598. Mathematical model of alternative mechanism of telomere length maintenance, Kollar, Richard; Bod'ova, Katarina; Nosek, Jozef, PHYSICAL REVIEW E Volume: 89 Issue: 3 Article Number: 032701 Published: MAR 4 2014
599. Dynamical clustering and a mechanism for raft-like structures in a model lipid membrane, Starr, Francis W.; Hartmann, Benedikt; Douglas, Jack F., SOFT MATTER Volume: 10 Issue: 17 Pages: 3036-3047 Published: 2014

Karamanov A., Pelino M., Ferraris M, Metecovitz I, "Sintered Glass-Ceramics from MSW-Incinerator Fly Ashes:Part II. The influence of the particle size and heat-treatment on the properties".Journal of European Cer. Soc., 2003, 1609-16015, ISSN: 0955-2219

600. Kiruri, L. W., Khachatryan, L., Dellinger, B., & Lomnicki, S.(2014). Effect of Copper Oxide Concentration on the Formation and Persistency of Environmentally Persistent Free Radicals(EPFRs)in Particulates. Environmental science & technology, 48(4), 2212-2217.
601. Lu, J., Lu, Z., Peng, C., Li, X., & Jiang, H.(2014). Influence of particle size on sinterability, crystallisation kinetics and flexural strength of wollastonite glass-ceramics from waste glass and fly ash. Materials Chemistry and Physics, 148(1), 449-456.

Karamanov A., Pelino M., Hreglich A."Sintered Glass-Ceramics from MSW-Incinerator Fly Ashes, Part I :The influence of the heating rate on the sinter-crystallisation." Journal of European Cer. Soc. 23, 2003, 827-832, ISSN: 0955-2219

602. Liu, H., Wang, Y., Wang, T., Yang, R., Liu, S., Enhanced surface crystallization of glass by adding traditional oxide nucleating agents, 2014, Ceramics International 40 , pp. 453-457
603. Liao, W.-P., Yang, R., Kuo, W.-T., Huang, J.-Y., The application of electrocoagulation for the conversion of MSWI fly ash into nonhazardous materials, Journal of Environmental Management Volume 137, 1 May 2014, Pages 157-162
604. Satish, C. R. K. Functional Glasses and Glass-ceramics Derived from Industrial Waste. Erlangen-Nürnberg, 2014, PhD. thesis
605. TASNEEM, K. M.(2014). BENEFICIAL UTILIZATION OF MUNICIPAL SOLID WASTE INCINERATION ASHES AS SUSTAINABLE ROAD CONSTRUCTION MATERIALS(Doctoral dissertation, University of Central Florida Orlando, Florida).2014

Karamanov A., Di Gioacchino R. and al., "Viscosity of iron-rich glasses from industrial wastes", Glass Technology, 43, 2002, 34-38, ISSN: 0017-1050

606. Chevrel, M.O., Baratoux, D., Hess, K.-U., Dingwell, D.B., Viscous flow behavior of tholeiitic and alkaline Fe-rich martian basalts, 2014, Geochimica et Cosmochimica Acta 124, pp. 348-365

Pelino M, Karamanov A., Piscicella P., Zanneti D. Crisucci S, "Vitrification of Electric Arc Furnace Dusts", Waste Management 22, 2002, 945-949, ISSN: 0956-053X

607. Celary, P., & Sobik-Szołtysek, J.(2014). Vitrification as an alternative to landfilling of tannery sewage sludge. Waste Management, 34(12), 2520-2527.
608. Zhang, X., Ma, G., Jin, Y., & Cheng, P.(2014). Preparation of ceramic tiles with black pigments using stainless steel plant dust as a raw material. Ceramics International, 40(7), 9693-9700.
609. Ranitović, M., Kamberović, Ž., Korać, M., Gavrilovski, M., Issa, H., & Anđić, Z.(2014). Investigation of possibility for stabilization and valorization of electric ARC furnace dust and glass from electronic waste. Science of Sintering, 46(1), 83-93.

610. Vereš, J., Šepelák, V., & Hredzák, S.(2014). Chemical, mineralogical and morphological characterisation of basic oxygen furnace dust. *Mineral Processing and Extractive Metallurgy(Trans. Inst. Min Metall. C)*. Online ISSN: 1743-2855
<http://dx.doi.org/10.1179/1743285514Y.00000000069>
611. Bakkar, A.(2014). Recycling of electric arc furnace dust through dissolution in deep eutectic ionic liquids and electrowinning. *Journal of hazardous materials*, 280, 191-199.
612. STROE, B. F., & NICOLAE, A. ASPECTS REGARDING A NEW FIELD OF KNOWLEDGE REPRESENTED BY THE METALLURGICAL ECOSOCIOLOGY. *U.P.B. Sci. Bull., Series B, Vol. 76, Iss. 2, 2014, 241-250*
613. Baowei, L., Yongsheng, D., Xuefeng, Z., Ming, Z., & Hua, C.(2014). Crystallization characteristics and properties of high-performance glass-ceramics derived from baiyunebo east mine tailing. *Environmental Progress & Sustainable Energy*. DOI: 10.1002/ep.12006, American Institute of Chemical Engineers Environ Prog
614. de Paulo Ferreira Marques Sobrinho, V., de Oliveira, J.R., Vieira, E.A.,(...), Tenório, J.A.S., Espinosa, D.C.R. Evaluation of the addition of electric arc furnace dust in hot metal changing the type of the crucible, *Materials Science Forum*, Volume 798-799, 2014, Pages 594-598

Karamanov A., Di Gioacchino R., Piscicella P., Pelino M., Glass transformation range of iron rich glass and glass ceramics determined by different methods, 2001, Glass Technology,(4-5)126-129, ISSN: 0017-1050

615. Edelman, I., Ivanova, O., Zubavichus, Y., Trofimova, N. N., Zaikovskiy, V., Artemnko, A.,Kliava, J.(2014, May). Magnetic nanoparticles in borate glasses: Identification and sizing. In *Optimization of Electrical and Electronic Equipment(OPTIM)*, 2014 International Conference on(pp. 95-104). IEEE.

Karamanov A., Pelino M.,"Crystallization Phenomena in Iron Rich Glasses", J. Non-Crystalline Solids, 281 [1-3], 2001, 139-151, ISSN: 0022-3093

616. Harizanova, R., Bocker, C., Avdeev, G., Rüssel, C., & Gugov, I. Crystal growth and dielectric properties of BaTiO_3 obtained in aluminoborosilicate glasses. *Journal of Non-Crystalline Solids*. 2014, Pages 191–196
617. Lipatov, Y. V., Arkhangelsky, I. V., Dunaev, A. V., Gutnikov, S. I., Manylov, M. S., & Lazoryak, B. I.(2014). Crystallization of zirconia doped basalt fibers. *Thermochimica Acta.*, 575 , pp. 238-243
618. Chevrel, M.O., Baratoux, D., Hess, K.-U., Dingwell, D.B., Viscous flow behavior of tholeiitic and alkaline Fe-rich martian basalts, 2014, *Geochimica et Cosmochimica Acta* 124 , pp. 348-365 ,
619. Yang, Z., Lu, S., He, Y., Liao, G., & Ke, Y.(2013). Effect of CaO/SiO_2 ratio on the preparation and crystallization of glass-ceramics from copper slag. *Ceramics International*. Volume 40, Issue 5, June 2014, Pages 7297-7305
620. Edelman, I., Ivanova, O., Zubavichus, Y., Trofimova, N. N., Zaikovskiy, V., Artemenko, A., ... & Kliava, J.(2014, May). Magnetic nanoparticles in borate glasses: Identification and sizing. In *Optimization of Electrical and Electronic Equipment(OPTIM)*, 2014 International Conference on(pp. 95-104). IEEE.
621. Satish, C. R. K. Functional Glasses and Glass-ceramics Derived from Industrial Waste. Erlangen-Nürnberg, Ph.D. thesis 2014
622. Abdel-Hameed, S.A.M., Marzouk, M.A., Farag, M.M., Effect of P_2O_5 and MnO_2 on crystallization of magnetic glass ceramics, *Journal of Advanced Research*, Volume 5, Issue 5, 1 September 2014, Pages 543-550
623. Baowei, L., Yongsheng, D., Xuefeng, Z., Ming, Z., & Hua, C.(2014). Crystallization characteristics and properties of high-performance glass-ceramics derived from baiyunebo east mine tailing. *Environmental Progress & Sustainable Energy*. 13 JUN 2014, DOI: 10.1002/ep.12006, 014 American Institute of Chemical Engineers Environ Prog

Pisciella P., Crisucci S., Karamanov A., Pelino M., "Chemical Durability of Glasses Obtained by Vitrification of Industrial Wastes", Waste Management, 21, 2001, 1-9, ISSN: 0956-053X

624. Celary, P., & Sobik-Szołtysek, J.(2014). Vitrification as an alternative to landfilling of tannery sewage sludge. *Waste Management*, 34(12), 2520-2527.
625. Zhang, X., Ma, G., Jin, Y., & Cheng, P.(2014). Preparation of ceramic tiles with black pigments using stainless steel plant dust as a raw material. *Ceramics International*, 40(7), 9693-9700.
626. Kummooonin, N., Jaimasith, M., & Thiemsorn, W.(2014). FABRICATION OF CERAMIC FLOOR TILES FROM INDUSTRIAL WASTES. *Suranaree Journal of Science & Technology*, 21(2).
627. Sobiecka, Elzbieta, and Lukasz Szymanski. "Thermal Plasma Vitrification Process As The Effective Technology For Fly Ash And Chromium Rich Sewage Sludge Utilization." *Journal of Chemical Technology and Biotechnology*, Volume 89, Issue 7, July 2014, Pages 1115-1117
628. Li, H., Liu, L.Q., Jing, M.,(...), Wang, Z., Xing, R.P., Crystallization and mechanical properties of glass-ceramic from silicon slag, *Advanced Materials Research*, Volume 953-954, 2014, Pages 1643-1648
629. Aguiar, M.C., Gadioli, M.C.B., Babisk, M.P.,(...), Monteiro, S.N., Vieira, C.M.F., Characterization of a granite waste for clay ceramic addition, *Materials Science Forum*, Volume 775-776, 2014, Pages 699-704

Karamanov A., Pisciella P., Cantalini C. and Pelino M., "The Influence of the Fe³⁺ /Fe²⁺ Ratio on the Crystallization of Iron-rich Glasses from Industrial Wastes", *J. Am. Ceram. Society*, 81 [12], 2000, 3153-3157, ISSN: 0002-7820

630. Lipatov, Y. V., Arkhangelsky, I. V., Dunaev, A. V., Gutnikov, S. I., Manylov, M. S., & Lazoryak, B. I.(2014). Crystallization of zirconia doped basalt fibers. *Thermochimica Acta.*, 575 , pp. 238-243
631. Yang, S., Zhang, Y., Yu, J., Huang, T., Tang, Q., Chu, P. K., & Qi, L.(2014). Multi-functional honeycomb ceramic materials produced from bauxite residues. *Materials & Design*, 59, 333-338.
632. Dai, W. B., Li, Y., Cang, D. Q., Zhou, Y. Y., & Fan, Y.(2014). Effects of sintering atmosphere on the physical and mechanical properties of modified BOF slag glass. *International Journal of Minerals, Metallurgy, and Materials*, 21(5), 494-502.
633. Liu, Z. B., Zong, Y. B., Ma, H. Y., Dai, W. B., & Li, S. H.(2014). Effect of(CaO+ MgO)/SiO₂ ratio on crystallisation and properties of slag glass-ceramics. *Advances in Applied Ceramics*, 113(7), 411-418.

Karamanov A., Pisciella P., Pelino M., "The Crystallisation Kinetics of Iron Rich Glasses in Differentr Atmospheres", *Journal of European Cer. Soc.*, 20 [12], 2000, 2233-2237, ISSN: 0955-2219

634. Lipatov, Y. V., Arkhangelsky, I. V., Dunaev, A. V., Gutnikov, S. I., Manylov, M. S., & Lazoryak, B. I.(2014). Crystallization of zirconia doped basalt fibers. *Thermochimica Acta*, 575, 238-243
635. Satish, C. R. K. Functional Glasses and Glass-ceramics Derived from Industrial Waste. Erlangen-Nürnberg, Ph.D. Thesis, 2014

Karamanov A., Taglieri G., Pelino M., "Iron-Rich Sintered Glass-Ceramics from Industrial Wastes", *Journal of American Cer. Soc.*, 82 [11], 1999, 3012-3016, ISSN: 0002-7820

636. Bertrand, A., Carreaud, J., Delaizir, G., Duclère, J. R., Colas, M., Cornette, J., & Thomas, P.(2014). A Comprehensive Study of the Carbon Contamination in Tellurite Glasses and

- Glass-Ceramics Sintered by Spark Plasma Sintering (SPS). *Journal of the American Ceramic Society*, 97(1), 163-172.
637. Dai, W. B., Li, Y., Cang, D. Q., Zhou, Y. Y., & Fan, Y. (2014). Effects of sintering atmosphere on the physical and mechanical properties of modified BOF slag glass. *International Journal of Minerals, Metallurgy, and Materials*, 21(5), 494-502.
638. Abdel-Hameed, S. A. M., Marzouk, M. A., & Elwan, R. L. (2014). In Vitro Evaluation of Some Types of Ferrimagnetic Glass Ceramics. *International Journal of Biomaterials*, Volume 2014, 2014, Article number 415854
639. Satish, C. R. K. *Functional Glasses and Glass-ceramics Derived from Industrial Waste*. Erlangen-Nürnberg, Ph.D. thesis, 2014
640. Baowei, L., Yongsheng, D., Xuefeng, Z., Ming, Z., & Hua, C. (2014). Crystallization characteristics and properties of high-performance glass-ceramics derived from baiyunebo east mine tailing. *Environmental Progress & Sustainable Energy*. 13 JUN 2014, DOI: 10.1002/ep.12006, American Institute of Chemical Engineers Environ Prog

Karamanov A., Pisciella P. Pelino M., "The Effect of Cr₂O₃ as Nucleating Agent in Iron Rich Glass-Ceramics", *Journal of European Cer. Soc.*, 19 [15], 1999, 2641-2645, ISSN: 0955-2219

641. Liu, X., Pu, Y., Li, P., Wu, T., & Gao, P. Influence of different nucleating agent additives on phase structure and ferroelectric properties of SrO–BaO–Nb₂O₅–CaO–SiO₂–B₂O₃ glass-ceramics. *Journal of Materials Science: Materials in Electronics*, 1-8.
642. Liu, H., Xu, X., Wei, G., Sun, L., & Zhang, R. (2014). Effects of nucleating agents on crystallization of arc-molten slag from incinerator fly ash. *Transactions of Tianjin University*, 20, 335-343.
643. Guo, X., Cai, X., Song, J., Yang, G., & Yang, H. (2014). Crystallization and microstructure of CaO–MgO–Al₂O₃–SiO₂ glass-ceramics containing complex nucleation agents. *Journal of Non-Crystalline Solids*, 405, 63-67.
644. Eoh, Y. J., & Kim, E. S. (2014). Effect of heat-treatment on the dielectric properties of CaMgSi₂O₆ glass-ceramics with Cr₂O₃–Fe₂O₃–TiO₂. *Japanese Journal of Applied Physics*, 53(8S3), 08NB01.
645. Li, B.-W., Wang, F., Chen, H., (...), Zhang, X.-F., Du, Y.-S., Influence of Cr₂O₃ on the microstructure and properties of the glass-ceramics produced from Bayan Obo west mine tailing, Rengong Jingti Xuebao/*Journal of Synthetic Crystals*, Volume 43, Issue 3, March 2014, Pages 642-647

Karamanov A., Cantalini C., Pelino M., Hreglich A., "Kinetics of Phase Formation in Jarosite Glass-Ceramics", *Journal of European Cer. Soc.*, 19 [4], 1999, 527-533 ISSN: 0955-2219

646. Satish, C. R. K. *Functional Glasses and Glass-ceramics Derived from Industrial Waste*. Erlangen-Nürnberg, Ph.D. thesis, 2014

Karamanov A., Pelino M., "Evaluation of the Degree of Crystallisation in Glass-Ceramics by Density Measurements", *Journal of European Cer. Soc.*, 19 [5], 1999, 649-654, ISSN: 0955-2219

647. Othman, R., Farah, J., , Use of rice straw ash in enhancing the properties of soda-lime-silica glass-ceramics, 2014, *Advanced Materials Research* 858 , pp. 205-221
648. Holakooei, P., Tessari, U., Verde, M., & Vaccaro, C. (2014). A new look at XRD patterns of archaeological ceramic bodies. *Journal of Thermal Analysis and Calorimetry*, 118(1), 165-176.
649. Erchenk, E., Sen, U., & Yilmaz, S. (2014). Tribological Properties of SiC-Reinforced Basalt-Based Coatings. *Tribology Letters*, 56(2), 337-354.
650. Bocker, C., Wiemert, J., & Rüssel, C. (2014). The effect of viscosity on nanocrystallization of strontium fluoride from a silicate glass. *Solid State Sciences*, 30, 55-60.

651. Satish, C. R. K. Functional Glasses and Glass-ceramics Derived from Industrial Waste. Erlangen-Nürnberg, Ph.D. thesis, 2014
652. Faeghinia, A.(2014). EFFECT OF LaF₃ ON THERMAL PROPERTIES, CRYSTALLIZATION AND SINTERING OF SEALING GLASS-CERAMIC. *Ceramics–Silikáty*, 58(1), 56-64.
653. Guo, X., Cai, X., Song, J., Yang, G., Yang, H., Crystallization and microstructure of CaO-MgO-Al₂O₃-SiO₂ glass-ceramics containing complex nucleation agents, *Journal of Non-Crystalline Solids*, Volume 405, 1 December 2014, Pages 63-67
654. Binhussain, M.A., Marangoni, M., Bernardo, E., Colombo, P. , Sintered and glazed glass-ceramics from natural and waste raw materials, 2014, *Ceramics International* 40(2), pp. 3543-3551
655. Marangoni, M., Ponsot, I., Kuusik, R., & Bernardo, E.(2014). Strong and chemically inert sinter crystallised glass ceramics based on Estonian oil shale ash. *Advances in Applied Ceramics*, 113(2), 120-128.
656. Denry, I., & Holloway, J. A.(2014). Low temperature sintering of fluorapatite glass-ceramics. *Dental Materials*, 30(2), 112-121.
657. Fest, S., Reinsch, S., & Mueller, R.(2014). Milling, Sintering and Crystallization of 11BaO-25CaO-64SiO₂ Glass Powder, *International Journal of Applied Glass Science*, Volume 5, Issue 3, September 2014, Pages 236-247
658. Breneman, R. C., & Halloran, J. W.(2014). Kinetics of Cristobalite Formation in Sintered Silica. *Journal of the American Ceramic Society*, Volume 97, Issue 7, pages 2272–2278, 2014

Karamanov A., Gutzow I., Penkov I., “Diopside Marble-like Glass-Ceramics”, *Glastech. Ber., Glass Sci. Tech.*, , 67, [7], 1994, 202-208, ISSN: 0946-7475

659. Binhussain, M. A., & Hamzawy, E.(2014). Synthetic White Marble-Like Material Produced from Natural Raw Materials. *Arabian Journal for Science and Engineering*, 39(1), 453-459.

(2049) Conformations of random polyampholytes. V. Yamakov, A. Milchev, H.J. Limbach, B. Dunweg, R. Evaraers , *PHYSICAL REVIEW LETTERS* Volume: 85 Issue: 20 Pages: 4305-4308 Published: NOV 13 2000

660. Conformational transitions in random heteropolymer models, Blavatska, Viktoria; Janke, Wolfhard, *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 3 Article Number: 034904 Published: JAN 21 2014

(2095) I. Krastev, A. Zielonka, S. Nakabayashi, K. Inokuma, A Cyclic Voltammetric Study of Ferrocyanide -Thiocyanate Electrolyte, *J. Appl. Electrochem.* 31, 9,(2001), 1041-1047.

661. V. Caramia and B. Bozzini, Potential-dependent reactivity of adsorbed cyanide during the electrodeposition of silver from cyanocomplexes: a study based on in-situ surface-enhanced Raman spectroscopy, *Trans. IMF*, 2014, DOI 10.1179/0020296714Z. 000000000207, цитат 12.

(2100) Polymer melt droplets adsorbed on a solid wall: A Monte Carlo simulation, Milchev, A; Binder, K, *JOURNAL OF CHEMICAL PHYSICS* Volume: 114 Issue: 19 Pages: 8610-8618 Published: MAY 15 2001

662. Adsorption and Pattern Recognition of Polymers at Complex Surfaces with Attractive Stripelike Motifs, Moeddel, Monika; Janke, Wolfhard; Bachmann, Michael, *PHYSICAL REVIEW LETTERS* Volume: 112 Issue: 14 Article Number: 148303 Published: APR 8 2014

(2146) Off-lattice Monte Carlo methods for coarse-grained models of polymeric materials and selected applications, Binder, K; Milchev, A, *JOURNAL OF COMPUTER-AIDED MATERIALS DESIGN* Volume: 9 Issue: 1 Pages: 33-74 Published: 2002

663. Coil-helix transition of biopolymer confined in finite cylinder, Sun, Tingting; Yang, Zhiyong, *CHEMICAL PHYSICS LETTERS* Volume: 608 Pages: 74-79 Published: JUL 21 2014

(2153)The electrostatic persistence length of polymers beyond the OSF limit, Everaers, R; Milchev, A; Yamakov, V, EUROPEAN PHYSICAL JOURNAL E Volume: 8 Issue: 1 Pages: 3-14 Published: MAY 2002

664. Structure of Microgels with Debye-Huckel Interactions, Kobayashi, Hideki; Winkler, Roland G., *POLYMERS* Volume: 6 Issue: 5 Pages: 1602-1617 Published: MAY 2014
665. Strong and Weak Polyelectrolyte Adsorption onto Oppositely Charged Curved Surfaces, Winkler, Roland G.; Cherstvy, Andrey G., Muller, M, *POLYELECTROLYTE COMPLEXES IN THE DISPERSED AND SOLID STATE I: PRINCIPLES AND THEORY* Book Series: Advances in Polymer Science Volume: 255 Pages: 1-56 Published: 2014

(2154)D. Exerowa, Chain-melting phase transition and short-range molecular interactions in phospholipid foam bilayers, Advances in Colloid and Interface Science 96(2002)75-100.

666. D. Pentak, Alternative methods of determining phase transition temperatures of phospholipids that constitute liposomes on the example of DPPC and DMPC, *Thermochim Acta* 584, 2014, 36-44.

(2171)Khr. Khristov, D. Exerowa, G. Minkov, 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(2002)159-166.

667. R. Mensire, K. Piroird, E. Lorenceau, Coalescence of dry foam under water injection, *Soft Matter* 10, 2014, 7068-7072.
668. D. Langevin, M. Vignes-Adler, Microgravity studies of aqueous wet foams, *Eur.Phys.J.E* 37, 2014, 16.
669. E. Rio, W. Drenckhan, A. Salonen, D. Langevin, Unusually stable liquid foams, *Adv Colloid Interface Sci* 205, 2014, 74-86.
670. E. Rio, A.L. Biance, Thermodynamic and mechanical timescales involved in foam film rupture and liquid foam coalescence, *ChemPhysChem* 15, 2014, 3692-3707.
671. J. Lee, A. Nikolov, D. Wasan, Foam stability: The importance of film size and the micellar structuring phenomenon, *Can.J.Chem.Eng.* 92, 2014, 2039-2045.
672. J. Gylys, R. Jonynas, T. Zdankus, Experimental investigation of heat transfer from vertical flat surface to upward aqueous foam flow, *Int.J.Heat Mass Transf.* 76, 2014), 298-306.
673. J. Lee, A. Nikolov, D. Wasan, Effects of micellar structuring and solubilized oil on the kinetic stability of aqueous foams, *Ind.Eng.Chem.Res.* 53, 2014, 18891-18899.

(2064)Ts. Radeva, Ed., Physical Chemistry of Polyelectrolytes, Surf. Series, Vol. 99, Marcel Dekker, New York, 2001.

674. Bertin, Polyelectrolyte complexes of DNA and polycations as gene delivery vectors, *Adv. Polym. Sci.* 256, 2014, 103-196.
675. A. B. Fradj, R. Lafi, S.B. Hamouda, A.H. Hamzaoui, A. Hafiane, Investigation on the interaction of Safranin T with anionic polyelectrolytes by spectrophotometric method, *Spectroscopica Acta – Part A: Molecular and Biomolecular Spectroscopy* 131, 2014, 169-176.
676. A. Momeni, M.I. Filiaggi, Comprehensive study of the chelation and coacervation of alkaline earth metals in the presence of sodium polyphosphate solution, *Langmuir* 30, 2014, 5256-5266.

677. G. Soriano-Moro, J. Percino, M. Ceron, M.E. Castro, V.M. Chapela, Physicochemical study by multi-angle light scattering of water-soluble methacrylloaminophenylarsonate copolymers, *J. Polymer Res.* 21, 2014, 492.
678. A. K. Sarkar, S. Ghosai, A.S. Patra, B.K. Mishra, N.R. Mandre, S. Pal, Modified amylopectin based flocculant for the treatment of synthetic effluent and industrial wastewaters, *Int. J. Biolog. Macromolecules* 72, 2014, 356-363.
679. J. Frueh, M. Gai, S. Halstead, Q. He, Structure and Thermodynamics of Polyelectrolyte Complexes, In: *Polyelectrolytes*, Springer, 2014, 19-88.
680. E.I. Robertson, G.I. Richmond, Molecular insights in the structure and layered assembly of polyelectrolytes at the oil/water interface, *J. Phys. Chem. C* 118, 2014, 28331-28343.

(2066)Ts. Radeva, Electric light scattering of colloid particles in polyelectrolyte solutions In: Physical Chemistry of Polyelectrolytes, Surf. Series, Vol. 99, Marcel Dekker, New York, 2001, Chapter 11, 305-345.

681. A.M. Zhivkov, R.P. Hristov, Electrical polarizability dispersion of alumina particles with adsorbed carboxymethyl cellulose, *RSC Advances* 4, 2014, 2715-2728.

(2068)Mohamed Arbib, Bing Zhang, V Lazarov, D Stoychev, A Milchev, Claudine Buess-Herman, Electrochemical nucleation and growth of rhodium on gold substrates, Journal of electroanalytical chemistry 510, 1(2001)67-77, ISSN: 1572-6657

682. Leah B. Sheridan, Veronica M. Yates, David M. Benson, John L. Stickney, David B. Robinson, Hydrogen sorption properties of bare and Rh-modified Pd nanofilms grown via surface limited redox replacement reactions, *Electrochimica Acta*, 128(2014)400–405 ISSN: 0013-4686
683. K. Mech, P. Żabiński and R. Kowalik, Analysis of Rhodium Electrodeposition from Chloride Solutions, *J. Electrochem. Soc.*, 161, 9(2014)D458-D461 Print ISSN: 0013-4651; Online ISSN: 1945-7111.
684. Jozefina Katić, Mirjana Metikoš-Huković, Ranko Babić, Synthesis and characterization of calcium phosphate coatings on Nitinol, *Journal of Applied Electrochemistry*, 44, 1(2014)87-96, ISSN: 0021-891X(Print)1572-8838(Online)
685. K. Mech, P. Żabiński, R. Kowalik, M. Wojnicki, Electrodeposition of Co–Rh alloys from aqueous acidic chloride electrolytes, *Surface and Coatings Technology*, 258, 15(2014)72–77, ISSN: 0257-8972
686. Innocenzo G. Casella, Michela Contursi, Highly dispersed rhodium particles on multi-walled carbon nanotubes for the electrochemical reduction of nitrate and nitrite ions in acid medium, *Electrochimica Acta*, 138(2014)447–453, ISSN: 0013-4686
687. N. V. Sotskaya, L. V. Saprónova, O. V. Dolgikh, Kinetics of the nucleation and growth of nickel particles in α -alanine-containing electrolytes, *Protection of Metals and Physical Chemistry of Surfaces*, 50, 1(2014)22-26, ISSN: 2070-2051(Print)2070-206X(Online)
688. Н.В.Соцкая, Л.В.Сапронова, О.В.Долгих, Кинетика нуклеации и роста частичек никеля из содержащих α -аланина электролитов, *Физикохимия поверхности и защита материалов*, 2014, Т. 50, No. 1, стр. 26–30.
689. NV Sotskaya, LV Saprónova, OV Dolgikh, Kinetics of nickel electrocrystallization from serine-containing electrolytes, *Russian Journal of Electrochemistry*, Vol.50, No12, 1137-1141(2014)
690. Н.В.Соцкая, Л.В.Сапронова, О.В.Долгих, Кинетика электрокристаллизации никеля из серина-содержащих электролитов, *электрохимия*, 50, No12, 1271-1276
691. Guin, S.K., Phatak, R., Pillai, J.S., Sarkar, A., Aggarwal, S.K., A mechanistic study on the effect of a surface protecting agent on electrocrystallization of silver nanoparticles, *RSCAdvances*, Volume 4, Issue 104, 2014, Pages 59927-59935

(2073)N. Boshkov, S. Vitkova, K. Petrov, Corrosion products of zinc-manganese coatings:Part I - Investigations using microprobe analysis and X-ray diffraction, Metal Finishing99 9(2001)56-60.

692. A. Raffee, K. Raeissi, M.A. Golozar, "Characterization and corrosion resistance of Zn-Mn coatings electrodeposited from acidic chloride bath", Transactions of the Institute of Metal Finishing, 92, 2, 2014, 115-120.
- (2079)N. Cioffi, L. Torsi, I. Losito, C. DiFranco, I. DeBari, L. Chiavarone, G. Scamarcio, V. Tsakova, L. Sabbatini, P.G. Zambonin, Electrosynthesis and analytical characterization of polypyrrole thin films modified with copper nanoparticles, J. Mater. Chem., 11, 2001, 1434-1440.**
693. D.H. Won, J. Chung, S.H. Park, E.-H.Kim, S. Woo, Photoelectrochemical production of useful fuels from carbon dioxide on a polypyrrole-coated p-ZnTe photocathode under visible light irradiation, J. Mater. Chem. A, 3(2014)1089-1095.
- (2085)Hoche, T.; Moisescu, C.; Avramov, I.; Russel, C.; Heerdegen, W. D.;Microstructure Of Sio2-Al2o3-Cao-P2o5-K2o-F- Glass Ceramics. Needlelike Versus Isometric Morphology Of Apatite Crystals Chem. Mater.(2001); 13(4); 1312-1319 ISSN: 1552-4981**
694. D. Li, R. Xie, M. Tian, S. Ma, L. Gou, X. Fan, Y. Shi, H.-T.H. Yong, L. Hao, Improving high-rate performance of mesoporous Li₂FeSiO₄/Fe₇SiO₁₀/C nanocomposite cathode with a mixed valence Fe₇SiO₁₀ nanocrystal. 2(2014)4375-4383.
695. X. Chen, R. Hill, N. Karpukhina, Chlorapatite Glass-Ceramics. 5(2014)207-216.
696. Karpukhina, N; Hill, RG; Law, RV, CHEMICAL SOCIETY REVIEWS, 43(7):2174-2186; 10.1039/c3cs60305a 2014
- (2086)A. Hrussanova, L. Mirkova, Ts. Dobrev, Anodic behaviour of the Pb-Co₃O₄ composite coating in copper electrowinning, Hydrometallurgy, 60(3)(2001)199-213.**
697. Y.-C. Zhang, B.-M. Chen, H.-T. Yang, Z.-C. Guo, R.-D. Xu, Anodic behavior and microstructure of Al/Pb-Ag anode during zinc electrowinning, Transactions of Nonferrous Metals Society of China(English Edition), 24(3)(2014)893-899.
- (2098)Metois, J.J., Heyraud, J.C., Stoyanov, S., Step flow growth of vicinal(111)Si surface at high temperatures: Step kinetics or surface diffusion control, Surface Science 486(1-2)(2001)95-102.**
698. Asakawa, H., Sazaki, G., Yokoyama, E., Nagashima, K., Nakatsubo, S., Furukawa, Y., Roles of surface/volume diffusion in the growth kinetics of elementary spiral steps on ice basal faces grown from water vapor, Crystal Growth and Design 14(7)(2014)3210-3220.
- (2103)Wetting behavior of nanodroplets: The limits of Young's rule validity, Milchev, AI; Milchev, AA, EUROPHYSICS LETTERS Volume: 56 Issue: 5 Pages: 695-701 Published: DEC 2001**
699. Disjoining pressure and the film-height-dependent surface tension of thin liquid films: New insight from capillary wave fluctuations, L.G. Macdowell, J. Benet, N.A. Katcho, J.M.G. Palanco ,ADVANCES IN COLLOID AND INTERFACE SCIENCE Volume: 206 Special Issue: SI Pages: 150-171 Published: APR 2014
- (2113)T. Radeva, V. Milkova, I. Petkanchin, Structure and electrical properties of polyelectrolyte multilayers formed on anisometric colloidal particles, Journal of Colloid and Interface Science 244(2001)24-30.**
700. Карина Митарова, "Моделни нано-контейнери за пренос на аскорбинова киселина", Дипломна работа за ОС "магистър", СУ „Св. Климент Охридски“ 2014.
- (2119)D. Stoychev, A. Papoutsis, A. Kelaidopoulou, G. Kokkinidis, A. Milchev, Electrodeposition of platinum on metallic and nonmetallic substrates—selection of**

experimental conditions, *Materials Chemistry and Physics* **72**, 3(2001)360-365, ISSN: 0254-0584

701. Radisic, B.M. Morcos, M. Op de Beeck, J.M. O'Callaghan, C. Van Hoof, Electrochemical fabrication of platinum interconnects for implantable electronic devices, *Microelectronic Engineering*, 120, 25(2014)251–256, MAM2013, March 10-13, Leuven, Belgium ISSN: 0167-9317.
702. Jahan-Bakhsh Raof, Sayed Reza Hosseini, Seyedeh Zeinab Mousavi-Sani, Improved hydrogen evolution on glassy carbon electrode modified with novel Pt/cetyltrimethylammonium bromide nanoscale aggregates, *Chinese Journal of Catalysis*, 35(2014)0–0 ISSN: 1872-2067
703. JB Raof, SR Hosseini, SZ Mousavi-Sani - *催化学报*, 2014 - chxb.cn, chxb.cn [PDF]
704. K.T.Kim, S.H.Jin, S.-C.Chang, D.S.Park, Green Synthesis of Pt Nanoparticles by Electroreduction of K₂PtCl₆ Solid State Precursor and Its Electrocatalytic Effect on H₂O₂ Reduction, *Bull.Korean Chem.Soc.*, 2014, 34, No12, 3835-3839.
705. M. Morcos, J. M. O'Callaghan, M. F. Amira, C. Van Hoof, M. Op de Beeck J.Electrochem. Soc., 160(8)(2013)D300-D306 DOI: 10.1149/2.024308jes

(2124)V. Tsakova, D. Borissov, B. Ranguelov, Ch. Stromberg, J. W. Schultze, Electrochemical incorporation of copper in polyaniline layers, *Electrochim. Acta*, 46, 2001, 4213-4222.

706. P. Xu, X. Han, B. Zhang, Y.Du, H.L. Wang, Multifunctional polymer-metal nanocomposites via direct chemical reduction by conjugated polymers, *Chemical Society Reviews*, 43, 2014, 1349-1360.
707. M. Sanchez-Jiménez, F. Estrany, C. Alemán, Properties of Cu nanoparticles–poly(N-methylpyrrole)composites, *Polymer Composites*, 2014, DOI: 10.1002/pc.23216

(2125)V. Tsakova, S. Winkels, J. W. Schultze, Crystallization kinetics of Pd in composite films of PEDT,” *J. Electroanal. Chem.*, 500, 2001, 574-583.

708. E.G. Tolstopyatova, N.A. Pogulyaichenko, V.V. Kondratiev, Synthesis and electrochemical properties of composite films based on poly-3,4-ethylenedioxythiophene with inclusions of silver particles, *Russian Journal of Electrochemistry*, 50, 2014, 510-516.
709. S. Gu, X.P. Wang, Y.Z. Wei, B.Z. Fang, Mechanism for nucleation and growth of electrochemical deposition of palladium(II) on a platinum electrode in hydrochloric acid solution, *Science China-Chemistry*, 57, 2014, 755-762.

(2127)E. Valova, I. Georgiev, S. Arnyanov, J.-L. Delplanck D. Tachev, Ts. Tsacheva, J. Dille, 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(2001)C266-C273

710. S. Fashu, C. D. Gu, X. L.Wang, J. P. Tu, Structure, Composition and Corrosion Resistance of Zn-Ni-P Alloys Electrodeposited from an Ionic Liquid Based on Choline Chloride, *J. Electrochem. Soc.*, 161,2014, D3011-D3017.
711. C. Srivastava, S.K. Ghosh, A.K. Sahoo, R. C. Hubli, J. K. Chakravarty, Structural and Corrosion Property Investigation of Electrodeposited Ni-Zn-P Alloy Coatings, ISE 65th Annual Meeting, ise141048, 31 August - 5 September, 2014. Lausanne, Switzerland.

(2136)A.Milchev, Electrocrystallization: Fundamentals of Nucleation and Growth, Kluwer Academic Publishers, Boston/Dordrecht/London,2002.ISBN1-4020-7090-X

712. . Velmurugan J.-M. Noël and Michael V. Mirkin, Nucleation and growth of mercury on Pt nanoelectrodes at different overpotentials, *Chemical Science*, 5(1)(2014)189-194

713. Dafeng Zhang, Peng Diao, Activity and stability of supported gold nano- and submicro-Particles toward the electrocatalyticoxidationofcarbonmonoxide, *Applied Catalysis A:General*, **469** (2014) 65–73
714. Andri Bezzola, Benjamin B. Bales, Richard C. Alkire, Linda R. Petzold An exact and efficient first passage time algorithm for reaction–diffusion processes on a 2D-lattice, *Journal of ComputationalPhysics*, **256**(2014)183–197
715. Vladimir A. Isaev, Olga V. Grishenkova Galvanostatic phase formation, *J Solid State Electrochemistry*, 18(9)(2014)2383-2386
716. Gupta, R., Guin, S.K., Aggarwal, S.K., Electrocrystallization of palladium(Pd)nanoparticles on platinum(Pt)electrode and its application for electro-oxidation of formic acid and methanol, *Electrochimica Acta*, 116(2014)314-320
717. Sotskaya, N.V. , Saprionova, L.V., Dolgikh, O.V., Kinetics of the nucleation and growth of nickelparticlesin α -alanine-containingelectrolytes, *Protection of Metals and Physical Chemistry of Surfaces* **50** (1) (2014) 22-26

(2144)S. Bernacchi, S. Stoylov, E. Piemont, D. Ficheux, B.P. Roques, J.I. Darlix, Y. Mely, HIV-1 nucleocapsid protein activates transient melting of least stable parts of the secondary structure of TAR and its complementary sequence, *J. Molecular Biology* 317(2002)385-399.

718. W. Wang, N. Naiyer, M. Mitra, Z. Wu, K. Musier-Forsyth, Distinct nucleic acid interaction properties of HIV-1 nucleocapsid protein precursors NCp15 explain reduced viral infectivity, *Nucleic Acids Res.* 42, 2014, 7145-7159.

(2160)A. Hrussanova, L. Mirkova, Ts. Dobrev, Electrochemical properties of Pb-Sb, Pb-Ca-Sn and Pb-Co₃O₄ anodes in copper electrowinning, *Journal of Applied Electrochemistry*, 32(5)(2002)505-512.

719. Y.-C. Zhang, B.-M. Chen, H.-T. Yang, Z.-C. Guo, R.-D. Xu, Anodic behavior and microstructure of Al/Pb-Ag anode during zinc electrowinning, *Transactions of Nonferrous Metals Society of China(English Edition)*, 24(3)(2014)893-899.

(2165)S. Ivanov, V. Tsakova, Influence of copper anion complexes on the incorporation of metal particles in polyaniline. Part. I. The copper citrate complex. *J. Applied Electrochem.*, 32, 2002, 701-707.

720. E. Nossol, A.B.S. Nossol, S.-X. Guo, J. Zhang, X.-Y. Fang, A.J.G. Zarbin, A.M. Bond, A.M. Synthesis, characterization and morphology of reduced graphene oxide-metal-TCNQ nanocomposites, *J. Mater. Chem. C*, 2 , 2014, 870-878.
721. Y.-K. Lin, Y.-J. Chiang, Y.-J. Hsu, Metal-Cu₂O core-shell nanocrystals for gas sensing applications: Effect of metal composition *Sensors and Actuators, B: Chemical*, 204 , 2014, 190-196.

(2166)S. Ivanov, V. Tsakova, Influence of copper anion complexes on the incorporation of metal particles in polyaniline. Part. II. Thecopperoxalatecomplex. *J. AppliedElectrochem.*, 32, 2002, 709-715

722. S. Yokoyama, H. Takahashi, T. Itoh, K. Motomiya, K.Tothji, Synthesis of metallic Cu nanoparticles by controlling Cu complexes in aqueous solution, *Advanced Powder Technology*, 25 , 2014, 999-1006.

(2169)D.Kashchiev, A.Firoozabadi, "Driving force for crystallization of gas hydrates", *J.Cryst.Growth* 241(2002)220

723. O.Fandino, L.Ruffine, “Methane hydrate nucleation and growth from the bulk phase: Further insights into their mechanisms”, *Fuel(Part A)*117(2014)442.

724. M.Karamoddin, F.Varaminian, "Performance of Hydrate Inhibitors in Tetrahydrofuran Hydrate Formation by Using Measurement of Electrical Conductivity", *J.Industr.Eng.Chem.* 20(2014)3815.
725. S.Zhou, Y.Yu, S.Wang, G.Zhang, H.Li, "Research progress in the hydrate formation model under the pipe flow system", *Natur.Gas Ind.* 34(2014)92.
726. M.I.Pallipurath, "Effect of Sediment Type on Natural Gas Production from Hydrates", *Proc.Annu.Offshore Technol.Conf.* 2(2014)897.
727. V.Mohebbi, A.Naderifar, R.M.Behbahani, M.Moshfeghian, "A Mass Transfer Study of Methane and Ethane During Hydrate Formation", *Petrol.Sci.Technol.* 32(2014)1418.
728. M.R.Talaghat, "Evaluation of various types' equations of state for prediction of rate of double gas hydrate formation based on Kashchiev model in flow loop apparatus", *J.Natur.Gas Sci.Eng.* 18(2014)385.
729. M.Karamoddin, F.Varaminian, "Study on the growth process of HCFC141b hydrate in isobaric system by a macroscopic kinetic model", *Intern.J.Refriger.* 44(2014)66.
730. S.P.Kang, J.Y.Shin, J.S.Lim, S.Lee, "Experimental measurement of the induction time of natural gas Hydrate and its prediction with polymeric kinetic inhibitor", *Chem.Eng.Sci.* 116(2014)817.
731. G.Zylyftari, A.Ahuja, J.F.Morris, "Nucleation of cyclopentane hydrate by ice studied by morphology and rheology", *Chem.Eng.Sci.* 116(2014)497.
732. N.Maeda, "Measurements of gas hydrate formation probability distributions on a quasi-free water droplet", *Rev.Sci.Instrum.* 85(2014)065115.
733. B.Zarenezhad, M.Mottahedin, F.Varaminian, "Effects of process variables on the initial gas hydrate formation rate: The case of ethane hydrate formation in the absence or presence of SDS kinetic promoter", *J.Molec.Liquids* 198(2014)57.
734. M.Di Lorenzo, Z.M.Aman, K.A.Kozielski, B.W.E.Norris, M.L.Johns, E.F.May, "Under-inhibited hydrate formation and transport investigated using a single-pass gas-dominant flowloop", *Energy Fuels* 28(2014)7274.
735. B.S.Saethre, A.C.Hoffmann, D. van der Spoel, "Order parameters and algorithmic approaches for detection and demarcation of interfaces in hydrate-fluid and ice-fluid systems", *J.Chem.Theory Comput.* 10(2014)5606.
736. M.J.Najafi, V.Mohebbi, "Solubility measurement of carbon dioxide in water in the presence of gas hydrate", *J.Natural Gas Sci.Eng.* 21(2014)738.
737. B.C.Barnes, B.C.Knott, G.T.Beckham, D.T.Wu, A.K.Sum, "Reaction Coordinate of Incipient Methane Clathrate Hydrate Nucleation.", *J.Phys.Chem. B* 118(2014)13236.
738. J.-P.Li, J.-Y.Yang, C.-L.Wang, J.-J.Huang, W.-J.Yang, "Study on pressure turbulence for growth process promotion of propane hydrate", *J.Eng.Thermophys.(China)*35(2014)1997.
739. Q.Chen, C.Liu, Y.Ye, "Thermodynamic and kinetic characteristics of nitrogen hydrates respond to thermo-analytical technique", *Asian J.Chem.* 26(2014)5365.
740. M.S.Onn, A.A.Seman, Z.Kassim, M.A.Esa, "CO₂ separation from natural gas through hydrate formation", *Proc.Annu.Offshore Technol.Conf.* 3(2014)2197.

(2170)D.Kashchiev, A.Firoozabadi, "Nucleation of gas hydrates", *J.Cryst.Growth* 243 (2002) 476

741. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.
742. E.F.May, R.Wu, M.A.Kelland, Z.M.Aman, K.A.Kozielski, P.G.Hartley, N.Maeda, "Quantitative kinetic inhibitor comparisons and memory effect measurements from hydrate formation probability distributions", *Chem.Eng.Sci.* 107(2014)1.
743. X.Zhao, Z.Qiu, L.Jiang, X.Kong, "An experimental analysis of natural gas hydrate formation at the presence of kinetic hydrate inhibitors", *Natur.Gas Ind.* 34(2014)105.
744. S.Zhou, Y.Yu, S.Wang, G.Zhang, H.Li, "Research progress in the hydrate formation model under the pipe flow system", *Natur.Gas Ind.* 34(2014)92.

745. V.Agarwal, B.Peters, "Nucleation near the eutectic point in a Potts-lattice gas model", *J.Chem.Phys.* 140(2014)084111.
746. M.R.Talaghat, "Evaluation of various types' equations of state for prediction of rate of double gas hydrate formation based on Kashchiev model in flow loop apparatus", *J.Natur.Gas Sci.Eng.* 18(2014)385.
747. S.P.Kang, J.Y.Shin, J.S.Lim, S.Lee, "Experimental measurement of the induction time of natural gas Hydrate and its prediction with polymeric kinetic inhibitor", *Chem.Eng.Sci.* 116(2014)817.
748. G.Zylyftari, A.Ahuja, J.F.Morris, "Nucleation of cyclopentane hydrate by ice studied by morphology and rheology", *Chem.Eng.Sci.* 116(2014)497.
749. B.Zarenezhad, M.Mottahedin, F.Varaminian, "Effects of process variables on the initial gas hydrate formation rate: The case of ethane hydrate formation in the absence or presence of SDS kinetic promoter", *J.Molec.Liquids* 198(2014)57.
750. V.Dyrseth, "Simulations of the inner heat coefficient during methane hydrate formation and growth in a stirred cell reactor", Ph.D.Thesis, University of Stavanger, Stavanger, 2014.
751. S.Sun, C.Liu, Y.Ye, Y.Liu, "Pore capillary pressure and saturation of methane hydrate bearing sediments", *Acta Oceanol.Sin.* 33(2014)30.
752. 137. F.T.Reyes, L.Guo, J.W.Hedgepeth, D.Zhang, M.A.Kelland, "THE FIRST INVESTIGATION OF THE KINETIC HYDRATE INHIBITOR PERFORMANCE OF POLY(N-ALKYL GLYCINE)S", *Energy Fuels* 28(2014)6889.
753. B.C.Barnes, B.C.Knott, G.T.Beckham, D.T.Wu, A.K.Sum, "Reaction Coordinate of Incipient Methane Clathrate Hydrate Nucleation.", *J.Phys.Chem. B* 118(2014)13236.
754. E.Luna-Ortiz, M.Healey, R.Anderson, E.Sorhaug, "Crystal growth inhibition studies for the qualification of a kinetic hydrate inhibitor under flowing and shut-in conditions", *Energy Fuels* 28(2014)2902.
755. L.Mu, S.Li, Q.-L.Ma, K.Zhang, C.-Y.Sun, G.-J.Chen, B.Liu, L.-Y.Yang, "Experimental and modeling investigation of kinetics of methane gas hydrate formation in water-in-oil emulsion", *Fluid Phase Equilib.* 362(2014)28.

(2172)I. Krastev, A. Zielonka, Electrodeposition and Properties of Cyclically Modulated Silver–Antimony Alloys, Journal of Applied Electrochemistry, 32, 10,(2002), 1141-1149.

756. M. Premovic, D. Minic, D. Manasijevic, V. Cosovic, D. Zivkovic, I. Dervisevic, N. Talijan, Mechanical and electrical properties of the ternary Ag-Sb-Zn system, *ActaMetal.Sin.* 27(2014)47-54, цитат 2.

(2173)I. Krastev, N. Petkova, A. Zielonka, Properties of silver–antimony alloys electrodeposited from ferrocyanide–thiocyanate electrolytes, Journal of Applied Electrochemistry, 32, 7,(2002), 811-818.

757. Y.H. Li, Z.C. Guo, B.F. Huang, H. Huang, Feasibility analysis of electrodeposited Cu-W-Co alloys, *Zhuhai*(2014)702-707,цитат 9.

(1772)Monte Carlo study of the molecular-weight distribution of living polymers, Rouault, Y; Milchev, A, PHYSICAL REVIEW E Volume: 55 Issue: 2 Pages: 2020-2022 Published: FEB 1997

758. Three dimensional cluster distributions in processed multi-wall carbon nanotube polymer composites
Moon, Doyoung; Obrzut, Jan; Douglas, Jack F.; *POLYMER* Volume: 55 Issue: 15
Pages: 3270-3277 Published: JUN 25 2014
759. D.W. Sun, M. M+ller, Interfaces and interphases in dense, polydisperse living polymer systems: A comparison between computer simulation and self-consistent field theory. *Soft Mater.* 12(2014)S31-S40.

(2148)N. Boshkov, K. Petrov, S. Vitkova, "Corrosion products of zinc-manganese coatings-partIII: Double-protective action of manganese", Metal Finishing,100 6(2002)98-102.

760. M. Marin-Sanchez, P. Ocon, A. Conde, I. Garsia, "Electrodeposition of Zn-Mn coatings on steel from 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide ionic liquid", *Surface and Coatings Technology*, 258, 2014, 871 – 877.
761. A. Raffee, K. Raeissi, M.A. Golozar, "Characterization and corrosion resistance of Zn-Mn coatings electrodeposited from acidic chloride bath", *Transactions of the Institute of Metal Finishing*, 92, 2, 2014, 115-120.

(2149)N. Boshkov, K. Petrov, S. Vitkova, S. Nemska, G. Raichevsky, "Composition of the corrosion products of galvanic coatings Zn-Co and their influence on the protective ability", *Surface and Coatings Technology*, 157 2-3(2002)171 – 178.

762. Y. Wang, J. Zeng, "Effects of manganese addition on microstructures and corrosion behavior of hot-dip zinc coatings of hot-rolled steels", *Surface and Coatings Technology*, 245, 2014, 55 – 65.
763. C. Fettkenhauer, J. Weber, M. Antonietti, D. Dontsova, "Novel carbon nitride composites with improved visible light absorption synthesized in ZnCl₂ salt melts", *RSC Advances*, 4, 77, 2014, 40803 - 40811.

(2175)Droplet spreading: A Monte Carlo test of Tanner's law, Milchev, A; Binder, K, *JOURNAL OF CHEMICAL PHYSICS* Volume: 116 Issue: 17 Pages: 7691-7694 Published: MAY 1 2002

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=17&SID=Q1ZWJh7IyfmoKtJepr&page=1&doc=1

764. Molecular Dynamics Study on the Self-Assembled Monolayer Grown from a Droplet of Alkanethiol, Kim, Hyojeong; Saha, Joyanta K.; Zhang, Zhengqing; *JOURNAL OF PHYSICAL CHEMISTRY C* Volume: 118 Issue: 20 Pages: 11149-11157 Published: MAY 22 2014
765. Spreading dynamics of nanodrops: a lattice boltzmann study, Gross, Markus; Varnik, Fathollah, *INTERNATIONAL JOURNAL OF MODERN PHYSICS C* Volume: 25 Issue: 1 Special Issue: SI Article Number: 1340019 Published: JAN 2014

(2177)Polymer nanodroplets adsorbed on nanocylinders: A Monte Carlo study, Milchev, A; Binder, K, *JOURNAL OF CHEMICAL PHYSICS* Volume: 117 Issue: 14 Pages: 6852-6862 Published: OCT 8 2002

766. Coarse-Grained Model for Sequence-Dependent Adsorption of ssDNA on Carbon Nanotubes Kucher, Olga; Yungerman, Irena; Srebnik, Simcha, *JOURNAL OF PHYSICAL CHEMISTRY C* Volume: 118 Issue: 31 Pages: 17677-17685 Published: AUG 7 2014

(2179)Nanodroplets on a solid plane: wetting and spreading in a Monte Carlo simulation, Milchev, A; Milchev, A; Binder, K, *COMPUTER PHYSICS COMMUNICATIONS* Volume: 146 Issue: 1 Pages: 38-53 Article Number: PII S0010-4655(02) 00433-2 Published: JUN 15 2002

767. Amorphization and recrystallization of single-crystalline hydrogen titanate nanowires by N⁺ ion irradiation, A.K. Behera, S. Facsko, M.K. Bandyopadhyay, S. Das, S. Chatterjee, *JOURNAL OF APPLIED PHYSICS* Volume: 115 Issue: 23 Article Number: 233505 Published: JUN 21 2014
768. Adsorption of PNIPAmx-PEO20-PPO70-PEO20PNIPAmx pentablock terpolymer on gold surfaces: effects of concentration, temperature, block length, and surface properties Chen, Tongquan; Lu, Yanping; Chen, Tianyou; *PHYSICAL CHEMISTRY CHEMICAL PHYSICS* Volume: 16 Issue: 12 Pages: 5536-5544 Published: 2014

(2192)A. Pimpinelli, V. Tonchev, A. Videcoq, M. Vladimirova, Scaling and Universality of Selforganized Patterns on Unstable Vicinal Surfaces, *Physical Review Letters* 88(2002)206103.

769. M.A. Valbuena, L. Walczak, J. Martinez-Blanco, I. Vobornik, P. Segovia, E.G. Michel, Lateral confinement effects of M-point Tamm state in vicinal Cu(100) surfaces, *Surface Science* 630, 2014, 144 - 152.
770. Kanna Nakamura, *EVOLUTION OF FACETED CRYSTAL SURFACES: MODELING AND ANALYSIS*, Dissertation submitted to the Faculty of the Graduate School of the University of Maryland, College Park in partial fulfillment of the requirements for the degree of Doctor of Philosophy, 2014.

(2198)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(2002)252-258, ISSN: 0254-0584

771. M. Kazemi, I. Danaee, D. Zaarei, The effect of pre-anodizing on corrosion behavior of silicate conversion coating on AA2024, *Materials Chemistry and Physics*, 148, 1–2(2014)223–229 ISSN: 0254-0584
772. MajidSababi, “NanocompositeCoatingsforCorrosionProtection”, Doctoral Thesis in Surface and Corrosion Science, Stockholm University, 2014
773. Catalina H. Musinoi Hagen, The Influence of Alternating Current on the PolarizationBehavior of Stainless Steels, Masters’ thesis, Norwegian University of Science and Technology(NTNU), Chemical Engineering and Biotechnology, Department of Materials Science and Engineering, 2014.

(2199)D Stoychev, I Valov, P Stefanov, G Atanasova, M Stoycheva, Ts Marinova, Electrochemical growth of thin La₂O₃ films on oxide and metal surfaces, *Materials Science and Engineering: C*, 23, 1–2(2002)123–128, ISSN: 0928-4931

774. Neren Ökte, Characterization and photocatalytic activity of Ln(La, Eu, Gd, Dy and Ho)loaded ZnO nanocatalysts, *Applied Catalysis A: General*, 475, 5(2014)27–39 ISSN: 0926-860X.
775. Ulises Martinez, Santiago Rojas-Carbonell, Barr Halevi, Kateryna Artyushkova, Boris Kiefer, Tomokazu Sakamoto, Koichiro Asazawa, Hirohisa Tanaka, Abhaya Datye and Plamen Atanasov, Ni-La Electrocatalysts for Direct Hydrazine Alkaline Anion-Exchange Membrane Fuel Cells, *J. Electrochem. Soc.* 161, 13(2014)H3106-H3112 Print ISSN: 0013-4651; Online ISSN: 1945-7111
776. M. Kazemi, I. Danaee, D. Zaarei, The effect of pre-anodizing on corrosion behavior of silicate conversion coating on AA2024, *Materials Chemistry and Physics*, 148, 1–2(2014)223–229 ISSN: 0254-0584

(2201)S.G. Taneva, F.M. Goi, N.P. Tuparev, I. Petkanchin, A. Der, A. Muga, Effect of Asp85 replacement by Thr on the conformation, surface electric properties and enhanced stability of bacteriorhodopsin, *Colloids Surf. A: Physicochem. Eng. Aspects* 209(2002)193-200.

777. I. M.J. Ranaghan, J.A. Greco, N.L. Wagner, K.J. Wise, R.R. Birge, Photochromic bacteriorhodopsin mutant with high holographic efficiency and enhanced stability via a putative self-repair mechanism, *ACS Applied Materials and Interfaces* 6, 2014, 2799-2808.

(2208)Iliia Valov, Dimitar Stoychev, Ts Marinova, Study of the kinetics of processes during electrochemical deposition of zirconia from nonaqueous electrolytes, *Electrochimica Acta*, 47, 28(2002)4419–4431 ISSN: 0013-4686

778. W. Simka, D. Majewski, G. Nawrat, A. Krzakała, Ł. Nieużyła, J. Michalska, Electrodeposition of Zirconium from DMSO Solution, *Archives of Metallurgy and Materials*, 59, 2(2014)ISSN: 2300-1909
779. Г.Б.Атанасова, Дисертация “Доктор”, “Характеризиране на тънки оксидни филми, приложими за каталитични носители”, ИОНХ-БАН(2014)

(2210)A.M. Zhivkov, B.M.I. Van Der Zande, S.P. Stoylov, Electro-optics of metal particles: Electric birefringence of gold rods, Colloids Surf. A: Physicichem. Eng. Aspects 209(2002)299-303.

780. S.A. Klemeshev, M.P. Petrov, A.K. Shalygin, A.V. Noitylov, V.V. Voitylov, Electro-optical effects in disperse systems in strong electric fields of arbitrary shape, Colloids Surf. A: Physicichem. Eng. Aspects 456, 2014, 114- 119.

781. B.N. Khlebtsov, V.A. Khanadeev, N.G. Khlebtsov, Extinction and extra-high depolarized light scattering of gold nanorods with improved purity and dimension tenability: Direct and inverse problems, Phys. Chem. Chem. Phys. 16, 2014, 5710-5722.

(2211)A.M. Zhivkov, S.P. Stoylov, Electro-optical characterization of aqueous laponite suspensions, Colloids Surf. A: Physicichem. Eng. Aspects 209(2002)315-318.

782. S.A. Klemeshev, M.P. Petrov, A.K. Shalygin, (), A.V. Noitylov, V.V. Voitylov, Electro-optical effects in disperse systems in strong electric fields of arbitrary shape, Colloids Surf. A: Physicichem. Eng. Aspects 456, 2014, 114-119.

(2212)A.M. Zhivkov, pH-dependence of electric light scattering by water suspension of purple membranes, Colloids and Surfaces A: Physicochemical and Engineering Aspects 209(2002)319-325.

783. M. Gomariz, S. Blaya, P. Acebal, L. Carretero, Real-time UV-visible spectroscopy analysis of purple membrane-polyacrylamide film formation taking into account fano line shapes and scattering, PLoS ONE 9, 2014, article № 110518.

2230)I. Avramov, E. Zanotto, M. Prado, Glass-Forming Ability Versus Stability Of Silicate Glasses Journal Of Non-Crystalline Solids 320(2003)9–20 .ISSN 0022-3093

784. Ercenk, The crystallization kinetics of the CaO-SiO₂-P₂O₅-MgO-Al₂O₃ base glass system. E JOURNAL OF NON-CRYSTALLINE SOLIDS, 387 101-106; 10.1016/j.jnoncrysol.2014.01.017 MAR 1 2014 ISSN 0022-3093

785. Rojas, SS; De Souza, JE; Yukimitu, K; Hernandez AC, Structural, thermal and optical properties of CaBO and CaLiBO glasses doped with Eu³⁺. , JOURNAL OF NON-CRYSTALLINE SOLIDS, 398 57-61; 10.1016/j.jnoncrysol.2014.04.026 SEP 1 2014

786. Alhalaweh, A; Alzghoul, A; Kaialy, W; Mahlin, D; Bergstrom, Computational predictions of glass-forming ability and crystallization tendency of drug molecules. CAS, OLECULAR PHARMACEUTICS, 11(9):3123-3132; 10.1021/mp500303a SEP 2014

787. Laitinen, R., Priemel, P. A., Surwase, S., Graeser, K., Strachan, C. J., Grohgan, H., & Rades, T.(2014). Theoretical Considerations in Developing Amorphous Solid Dispersions. In Amorphous Solid Dispersions(pp. 35-90). Springer New York.

(2231)I. Avramov, C. Rüssel, R. Keding, Journal Of Non-Crystalline Solids, Effect Of Chemical Composition On Viscosity Of Oxide Glasses 324, 1-2, 15 2003, pp 29-35 ISSN 0022-3093

788. Nentwig, T; Kondratiev, A; Yazhenskikh, E; Hack, K; Muller, M, ENERGY & FUELS, 27(11):6469-6476; 10.1021/ef401306d 2014

(2234)N. Boshkov,“Galvanic Zn-Mn alloys - electrodeposition, phase composition, corrosion behaviour and protective ability”, Surface and Coatings Technology,172 2-3(2003)217-226.

789. Y. Wang, J. Zeng. ”Effects of manganese addition on microstructures and corrosion behavior of hot-dip zinc coatings of hot-rolled steels”, Surface and Coatings Technology, 245, 2014, 55 – 65.

790. S. Ganeshan, G. Prabhu, B. Popov, “Electrodeposition and characterization of Zn-Mn coatings for corrosion protection”, Surface and Coatings Technology, 238, 2014, 143 – 151.

791. Raffee, K. Raeissi, M.A. Golozar, "Characterization and corrosion resistance of Zn-Mn coatings electrodeposited from acidic chloride bath", *Transactions of the Institute of Metal Finishing*, 92, 2, 2014, 115-120.
792. K. Wykpiś, B. Bierska-Piech, J. Kubiszta, "Electrodeposition of Zn-Mn coatings from a sulphate bath in the presence of complexing additives", *Surface and Interface Analysis*, 46, 10-11, 2014, 740-745.
793. S. Ranganatha, T.V. Venkatesha, "Fabrication and electrochemical characterization of Zn-halloysite nanotubes composite coatings", *RSC Advances*, 4, 59, 2014, 31230-31238.
794. Y. Boonyongmaneerat, K. Saengkiattiyut, S. Saenapitak, S. Sangsuk, "Corrosion behavior of reverse-pulse electrodeposited Zn-Ni alloys in saline environment", *Journal of materials Engineering and Performance*, 23, 1, 2014, 302-307.
795. W.-P. Li, X.-L. Zuo, J.-H. Liang, J.-H. He, S.-T. Zhang, "Effect of acetate on electrodeposition of manganese from chloride electrolyte with SeO₂ additives", *Advanced Materials Research*, 937, 2014, 193-199.
796. M. Marin-Sanchez, P. Ocon, A. Conde, I. Garsia, "Electrodeposition of Zn-Mn coatings on steel from 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide ionic liquid", *Surface and Coatings Technology*, 258, 2014, 871 – 877.

(2235) Annamaria Celli, Edgar D. Zanotto, and I. Avramov J. MACROMOLECULAR SCIENCE Part B—Physics Vol. 42, No. 2, pp. 387–401, 2003 Primary Crystal Nucleation and Growth Regime Transition in Isotactic Polypropylene

797. Derakhshandeh, M; Mozaffari, G; Doufas, AK; Hatzikiriakos, SG, *JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS*, 52(19):1259-1275; 10.1002/polb.23560 OCT 1 2014

(2236) R. Cohen, G. Ozdemir, D. Exerowa, Free thin liquid films (foam films) from rhamnolipids: Type of the film and stability, Colloids and Surfaces B: Biointerfaces 29(2003)197-204.

798. T. Kaya, B. Aslim, E. Kariptaş, Production of biosurfactant by *Pseudomonas* spp. isolated from industrial waste in Turkey, *Turk.J.Biol.* 38, 2014, 307-317.

(2237) E. Daftsis, N. Pagalos, A. Jannakoudakis, P. Jannakoudakis, E. Theodoridou, R. Rashkov, M. Loukaytsheva, N. Atanassov, Preparation of a carbon fiber-nickel-type material and investigation of the electrocatalytic activity for the hydrogen evolution reaction, Journal of the Electrochemical Society 11(2003) C787-C793.

799. R. Palaniappan, D.C. Ingram, G.G. Botte, Hydrogen Evolution Reaction Kinetics on Electrodeposited Pt-M (M= Ir, Ru, Rh, and Ni) Cathodes for Ammonia Electrolysis, *Journal of Electrochemical Society* 161,(1), 2014, E12-E22.

(2240) D. Exerowa, N.V. Churaev, T. Kolarov, N.E. Esipova, N. Panchev, Z.M. Zorin, Foam and wetting films: Electrostatic and steric stabilization, Advances in Colloid and Interface Science, 104(2003)1-24.

800. Sedighi, M. Montazer, N. Samadi, Synthesis of nano Cu₂O on cotton: Morphological, physical, biological and optical sensing characterizations, *Carbohydr Polym* 110, 2014, 489-498.
801. L. Xu, G. Xu, H. Gong, M. Dong, Y. Li, Y. Zhou, Foam properties and stabilizing mechanism of sodium fatty alcohol polyoxyethylene ether sulfate-welan gum composite systems, *Colloids Surf.A Physicochem.Eng. Asp.*, 456, 2014, 176-183.
802. Enesca, L. Isac, L. Andronic, D. Perniu, A. Duta, Tuning SnO₂-TiO₂ tandem systems for dyes mineralization, *Appl.Catal.B Environ.* 147, 2014, 175-184.

803. D. Kosior, J. Zawala, K. Malysa, Influence of n-octanol on the bubble impact velocity, bouncing and the three phase contact formation at hydrophobic solid surfaces, *Colloids Surf.A Physicochem.Eng.Asp.* 441, 2014, 788-795.

(2242)J. Georgieva, S. Armyanov, Factors Affecting the Electroless Deposition of Ni-Cu-P Coatings, *Journal of the Electrochemical Society*, 150(11)(2003)C760-C764

804. Ruffini, L. A. Hamilton, D. Buechel-rimmel, J. M. Laplante, A. Schaffer, F. K. Lowes, Electroless coated disks for high temperature applications and methods of making the same, United States Patent 8828482(2014).

(2245)S. Ivanov, P. Mokreva, V. Tsakova, L. Terlemezyan, Electrochemical and surface structural characterization of chemically and electrochemically synthesized polymer layers – a comparison, *Thin Solid Films*, 441, 2003, 44-49.

805. C.O. Dinç, S.Yalçinkaya, H. Altuntaş, N. Çolak, Synthesis and characterization of poly(m-aminophenol)-succinat, *Designed Monomers and Polymers*,17, 2014, 629-635.

806. N. Tanveer, M. Mobin, Corrosion Performance Evaluation of Chemically Synthesized Polyaniline and its Co-and Ter-polymer Coatings on Mild Steel in Different Media, *Chemical Sci. Rev. Lett.* 3, 2014, 14-32.

(2250)D.Kashchiev, A.Firoozabadi, "Induction time in crystallization of gas hydrates", *J.Cryst.Growth* 250(2003)499

807. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.

808. . O.Fandino, L.Ruffine, "Methane hydrate nucleation and growth from the bulk phase: Further insights into their mechanisms", *Fuel(Part A)*117(2014)442.

809. F.Farhang, A.V.Nguyen, M.A.Hampton, "Influence of sodium halides on the kinetics of CO₂ hydrate formation", *Energy Fuels* 28(2014)1220.

810. S.Zhou, Y.Yu, S.Wang, G.Zhang, H.Li, "Research progress in the hydrate formation model under the pipe flow system", *Natur.Gas Ind.* 34(2014)92.

811. R.Shadravanan, M.Schaffie, M.Ranjbar, "The Prediction of Hydrate Formation Rate in the Presence of Inhibitors", *Energy Sources A* 36(2014)661.

812. M.R.Talaghat, "Evaluation of various types' equations of state for prediction of rate of double gas hydrate formation based on Kashchiev model in flow loop apparatus", *J.Natur.Gas Sci.Eng.* 18(2014)385.

813. G.Zylyftari, A.Ahuja, J.F.Morris, "Nucleation of cyclopentane hydrate by ice studied by morphology and rheology", *Chem.Eng.Sci.* 116(2014)497.

814. M.R.Talaghat, "Experimental investigation of induction time for double gas hydrate formation in the simultaneous presence of the PVP and l-Tyrosine as kinetic inhibitors in a mini flow", *J.Natur.Gas Sci.Eng.* 19(2014)215.

815. S.-D.Zhou, Y.-S.Yu, M.-M.Zhao, S.-L.Wang, G.-Z.Zhang, "Effect of graphite nanoparticles on promoting CO₂ hydrate formation", *Energy Fuels* 28(2014)4694.

816. J.Du, H.Li, L.Wang, "Effects of ionic surfactants on methane hydrate formation kinetics in a static system", *Adv.Powder Technol.* 25(2014)1227.

817. . B.Zarenezhad, M.Mottahedin, F.Varaminian, "Effects of process variables on the initial gas hydrate formation rate: The case of ethane hydrate formation in the absence or presence of SDS kinetic promoter", *J.Molec.Liquids* 198(2014)57.

818. 152. J.Kim, K.Shin, Y.Seo, S.J.Cho, J.D.Lee, "Synergistic Hydrate Inhibition of Monoethylene Glycol with Poly-vinylcaprolactam in Thermodynamically Under-inhibited System", *J.Phys.Chem. B* 118(2014)9065.

819. M.J.Jalalnejhad, M.Ranjbar, A.Sarafi, H.Nezamabadi-Pour, "Comparison of intelligent systems, artificial neural networks and neural fuzzy model for prediction of gas hydrate formation rate", *Internat.J.Sci.Eng.* 7(2014)35.
820. . M.Di Lorenzo, Z.M.Aman, K.A.Kozielski, B.W.E.Norris, M.L.Johns, E.F.May, "Under-inhibited hydrate formation and transport investigated using a single-pass gas-dominant flowloop", *Energy Fuels* 28(2014)7274.
821. B.S.Saethre, A.C.Hoffmann, D. van der Spoel, "Order parameters and algorithmic approaches for detection and demarcation of interfaces in hydrate-fluid and ice-fluid systems", *J.Chem.Theory Comput.* 10(2014)5606.
822. . F.M.R.Cardoso, H.Carrier, J.L.Daridon, J.Pauly, P.T.V.Rosa, "CO₂ AND TEMPERATURE EFFECTS ON ASPHALTENE PHASE ENVELOPE AS DETERMINED BY A QUARTZ CRYSTAL RESONATOR", *Energy Fuels* 28(2014)6780.
823. E.Luna-Ortiz, M.Healey, R.Anderson, E.Sorhaug, "Crystal growth inhibition studies for the qualification of a kinetic hydrate inhibitor under flowing and shut-in conditions", *Energy Fuels* 28(2014)2902.
824. L.Mu, S.Li, Q.-L.Ma, K.Zhang, C.-Y.Sun, G.-J.Chen, B.Liu, L.-Y.Yang, "Experimental and modeling investigation of kinetics of methane gas hydrate formation in water-in-oil emulsion", *Fluid Phase Equilib.* 362(2014)28.

(2251)D.Kashchiev, G.M. van Rosmalen, "Review: nucleation in solutions revisited", *Cryst.Res.Technol.* 38(2003)555

825. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.
826. C.Mehringer, R.Wagner, T.Jakuttis, B.Butz, E.Spiecker, W.Peukert, "Gas phase synthesis of anisotropic silicon germanium hybrid nanoparticles", *J.Aerosol Sci.* 67(2014)119.
827. H.Wu, M.White, R.T.Berendt, R.Foringer, M.A.Khan, "Integrated process analytical technology approach for nucleation induction time measurement and nucleation mechanism assessment for a dynamic multicomponent pharmaceutical antisolvent crystallization system", *Industr.Eng.Chem.Res.* 53(2014)1688.
828. A.Caridi, S.A.Kulkarni, G.Di Profio, E.Curcio, J.H. ter Horst, "Template Induced Nucleation of Isonicotinamide Polymorphs", *Cryst.Growth Des.* 14(2014)1135.
829. J.Zhao, L.Ma, X.L.Xu, F.Feng, X.N.Li, "Synthesis of carbon-supported Pd/SnO₂ catalyst for highly selective hydrogenation of 2, 4-difluoronitrobenzene", *Chin.Chem.Lett.* 25(2014)1137.
830. R.Devraj, H.D.Williams, D.B.Warren, C.J.H.Porter, C.W.Pouton, "Choice of Nonionic Surfactant Used to Formulate Type IIIA Self-Emulsifying Drug Delivery Systems and the Physicochemical Properties of the Drug", *J.Pharmaceut.Sci.* 103(2014)1050.
831. B Jankovic, S Stopic, A Guven, B Friedrich, "Kinetic modeling of thermal decomposition of zinc ferrite from neutral leach residues based on stochastic geometric model", *J.Magnetism Magnetic Mater.* 358-359(2014)105.
832. M.A.J.Hartig, N.Jacobsen, W.Peukert, "Multi-component and multi-phase population balance model: the case of Georgeite formation as methanol catalyst precursor phase", *Chem.Eng.Sci.* 109(2014)158.
833. M.J.W.Povey, "Crystal nucleation in food colloids", *Food Hydrocolloids* 42(Part 1)(2014)118.
834. V.Agarwal, B.Peters, "Nucleation near the eutectic point in a Potts-lattice gas model", *J.Chem.Phys.* 140(2014)084111.
835. B.B.Schroeder, D.D.Harris, S.T.Smith, D.O.Lignell, "Theoretical Framework for Multiple-Polymorph Particle Precipitation in Highly Supersaturated Systems", *Cryst.Growth Des.* 14(2014)1756.
836. K.Fang, S.Arnold, B.A.Garetz, "Nonphotochemical laser-induced nucleation in levitated supersaturated aqueous potassium chloride microdroplets", *Cryst.Growth Des.* 14(2014)2685.

837. H.Maneesuwan, T.Chaisuwan, S.Wongkasemjit, "Synthesis of Fe-Ti-MCM-48 from silatrane precursor via sol-gel process and its hydrothermal stability", *Mater.Chem.Phys.* 146(2014)374.
838. G.Zylyftari, A.Ahuja, J.F.Morris, "Nucleation of cyclopentane hydrate by ice studied by morphology and rheology", *Chem.Eng.Sci.* 116(2014)497.
839. C.E.Figueroa, "Engineering nanoparticles for pharmaceutical applications: Formulation and freeze-drying techniques", Ph.D.Thesis, Princeton University, Princeton, 2014.
840. A.I.Toldy, L.Zheng, A.Z.M.Badruddoza, T.A.Hatton, S.A.Khan, "Dynamics and morphological outcomes in thin-film spherical crystallization of glycine from microfluidic emulsions-experimental studies and modeling", *Cryst.Growth Des.* 14(2014)3485.
841. J.L.Terebetski, J.J.Cummings, S.E.Fauty, B.Michniak-Kohn, "Combined Use of Crystalline Sodium Salt and Polymeric Precipitation Inhibitors to Improve Pharmacokinetic Profile of Ibuprofen through Supersaturation", *AAPS Pharm.Sci.Tech.* 15(2014)1334.
842. X.Jiang, M.Li, G.He, J.Wang, "Research Progress and Model Development of Crystal Layer Growth, Impurity Distribution in Layer Melt Crystallization: a Review", *Industr.Eng.Chem.Res.* 53(2014)13211.
843. M.R.Ward, "Non-photochemical laser-induced nucleation(NPLIN): An experimental investigation of crystal nucleation", Ph.D.Thesis, Edinburgh University, Edinburgh, 2014.
844. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the induction time or metastable zone width data based on turbidity measurements", *Cryst.Eng.Comm.* 16(2014)9743.
845. Y.Min, J.Kwak, A.Soon, U.Jeong, "Nonstoichiometric Nucleation and Growth of Multicomponent Nanocrystals in Solution", *Acc.Chem.Res.* 47(2014)2887.
846. 180. Y.Shen, Z.Zhang, R.Long, K.Xiao, J.Xi, "Synthesis of ultrafine Pt nanoparticles stabilized by pristine graphene nanosheets for electro-oxidation of methanol", *ACS Appl.Mater.Interf.* 6(2014)15162.
847. L.M.Tam, "Designing crystallization based-enantiomeric separation for chiral compound-forming systems in consideration of polymorphism and solvate formation", Ph.D.Thesis, Otto-von-Guericke Universitat Magdeburg, Magdeburg, 2014.
848. J.Y.Choi, "pH-induced flocculation/deflocculation process for harvesting microalgae from water", Ph.D.Thesis, University of Texas at Austin, Austin, 2014.
849. J.L.Terebetski, B.Michniak-Kohn, "Combining ibuprofen sodium with cellulosic polymers: A deep dive into mechanisms of prolonged supersaturation", *Intern.J.Pharmaceutics* 475(2014)536.
850. J.Liu, M.Svard, A.C.Rasmuson, "Influence of Agitation and Fluid Shear on Nucleation of m-Hydroxybenzoic Acid Polymorphs", *Cryst.Growth Des.* 14(2014)5521.
851. C.E.S.Bernardes, M.M.Lopes, J.R.Ascenso, M.E.M. da Piedade, "From Molecules to Crystals: The Solvent Plays an Active Role Throughout the Nucleation Pathway of Molecular Organic Crystals", *Cryst.Growth Des.* 14(2014)5436.
852. X.Bi, T.Fan, H.Zhang, "Novel Morphology-Controlled Hierarchical Core@ shell Structural Organo-Layered Double Hydroxides Magnetic Nanovehicles for Drug Release", *ACS Appl.Mater.Interf.* 6(2014)20498.
853. A.Soare, "Technologies for Optimisation and Control of Nucleation and Growth for New Generations of Industrial Crystallizers", Ph.D.Thesis, Delft University of Technology, Delft, 2014.
854. H.Yang, M.Svard, J.Zeglinski, A.C.Rasmuson, "Influence of solvent and solid-state structure on nucleation of parabens", *Cryst.Growth Des.* 14(2014)3890.
855. E.Nourafkan, A.Alamdari, "Modeling of silver nanoparticle synthesis in ternary reverse microemulsion of cyclohexane/water/SDS", *Particul.Sci.Technol.* 32(2014)215.
856. Z.Lu, "Understanding Dynamics in Thin-Film Spherical Crystallization of Active Pharmaceutical Ingredients from Microfluidic Emulsion", M.Sc.Thesis, National University of Singapore, Singapore, 2014.

(2252)D.Kashchiev, A.Firrozabadi, "Analytical solutions for 1D countercurrent imbibition in water-wet media", *SPE J.* 8(2003)401

857. P.O.Andersen, S.Evje, H.Kleppe, "A Model for Spontaneous Imbibition as a Mechanism for Oil Recovery in Fractured Reservoirs", *Transp.Porous Media* 101(2014)299.
858. F.Qanbari, C.R.Clarkson, "Analysis of Transient Linear Flow in Stress-Sensitive Formations", *SPE Reserv.Eval.Eng.* 17(2014)98.
859. H.Saboorian-Jooybari, N.Khademi, "TRAVELING WAVE ANALYSIS OF COCURRENT IMBIBITION IN POROUS MEDIA", *J.Porous Media* 17(2014)185.

(2257)A. Milchev, L. Heerman, Electrochemical nucleation and growth of nano-and micro particles: some theoretical and experimental aspects, *Electrochimica Acta*, 48 (20-22) (2003) 2903-2913. ISSN:00134686

860. Alemu, T., Assresahegn, B.D., Soreta, T.R. , Tuning the initial electronucleation mechanism of palladium on glassy carbon electrode, *Portugaliae Electrochimica Acta*, 32(1)(2014)21-33.
861. Xiaolong, L., Zhen, X., The effect of electrochemical conditions on morphology and properties of Bi₂Se₃ thick films by electrodeposition, *Materials Letters*, 129(15)(2014)1-4.
862. Guin, S.K., Aggarwal, S.K. Prospective use of the potentiostatic triple pulse strategy for the template- free electrosynthesis of metal nanoparticles, *RSC Advances*, 4(98)(2014)55349-55353, ISSN: 20462069
863. Sulaymon, A.H., Mohammed, S.A., Abbar, A.H., Characterization and electrochemical preparation of thin films of binary heavy metals(Cu-Pb,Cu-Cd,Cu-Zn)from simulated chloride wastewaters, *International Journal of Electrochemical Science* 9(11)(2014)6328-6351

(2070)I.Avramov, R. Keding, C. Russel, R. Kranold, Precipitate Particle Size Distribution In Rigid And Floppy Networks *J. Non-Cryst. Solids* 278(2001)13-18 ISSN 0022-3093

864. El-Sayed, SM; Meaz, TM; Amer, MA; El Shersaby, HA 'Effect of Trivalent Ion Substitution on the Physical Properties of M-Type Hexagonal Ferrites' *PARTICULATE SCIENCE AND TECHNOLOGY*, 32(1):39-45; 10.1080/02726351.2013.793759 JAN 2 2014

(2258)Interface localization-delocalization in a double wedge: A new universality class with strong fluctuations and anisotropic scaling, Milchev, A; Muller, M; Binder, K; Landau, DP, *PHYSICAL REVIEW LETTERS* Volume: 90 Issue: 13 Article Number: 136101 Published: APR 4 2003

865. Does surface roughness amplify wetting?Malijevsky, Alexandr, *Journal of chemical physics*, Volume: 141 Issue: 18 Article Number: 184703 Published: NOV 14 2014
866. Capillary Contact Angle in a Completely Wet Groove, Parry, A. O.; Malijevsky, A.; Rascon, C. *PHYSICAL REVIEW LETTERS* Volume: 113 Issue: 14 Article Number: 146101 Published: SEP 30 2014
867. Condensation and evaporation transitions in deep capillary grooves, Malijevsky, Alexandr; Parry, Andrew O., *JOURNAL OF PHYSICS-CONDENSED MATTER* Volume: 26 Issue: 35 Article Number: 355003 Published: SEP 3 2014

(2261)E. Mileva, D. Exerowa, Foam films as instrumentation in the study of amphiphile self-assembly, *Advances in Colloid and Interface Science* 100-102(2003)547-562.

868. Ася Цанова, „Свойства и механизми на действие на невропептиди с моделни мембрани с оглед приложението им във фармацията” Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.
869. Anne-LaureFameau, AnniinaSalonen, Effect of particles and aggregated structures on the foam stability and aging, *C. R. Physique*, 15(8–9)2014, 748–760.

(2262)L. Mirkova, G. Maurin,M. Monev, Chr. Tsvetkova, Hydrogen coevolution and permeation in nickel electroplating, *J Appl Electrochem*, 33(1)(2003)93-100.

870. A. Alimadadi, B. Fanta, M.A.J. Somers, K. Pantleon, Crystallographic orientations and twinning of electrodeposited nickel - a study with complementary characterization methods, *Surface and Coatings Technology*, 254(2014)207-216.

(2274)P. Tchoukov, E. Mileva, D. Exerowa, Experimental evidences of self-assembly in foamfilms from amphiphilic solutions, Langmuir 19(2003)1215-1220.

871. E. Parra and J. Pérez-Gil, Structure-function relationships and mechanical properties of pulmonary surfactant membranes, Chemistry and Physics of Lipids 2014, DOI: 10.1016/j.chemphyslip.2014.09.002.

(2296)Tz. Boiadjieva, D. Kovacheva, K. Petrov, S. Hardcastle, A. Sklyarov, M. Monev, Electrodeposition, composition and structure of Zn-Cr alloys, Journal of Applied Electrochemistry, 34(3)(2004)315.

872. E. Riedl, Electrochemical processes for design and modification of interfaces and surfaces of electronic devices, PhD, University of Regensburg, 2014.

(2297)Tz. Boiadjieva, D. Kovacheva, K. Petrov, S. Hardcastle, M. Monev, Effect of anodic treatment on the composition and structure of electrodeposited Zn-Cr alloy coatings, Corros. Sci., 46(2004)681–695.

873. B. Szczygiel, A. Laszczynska, Influence of bath concentration and pH on electrodeposition process of ternary Zn-Ni-Mo alloy coatings, Trans. IMF, 92 (4) (2014) 196-202.

874. E. Riedl, Electrochemical processes for design and modification of interfaces and surfaces of electronic devices, PhD, University of Regensburg, 2014.

875. F. Rosalbino, G. Scavino, D. Macciò, A. Saccone, Influence of the alloying component on the corrosion behaviour of zinc in neutral aerated sodium chloride solution, Corrosion Science, 89(2014)286–294.

(2304)I. Gutzow, B. Petroff, The glass transition in terms of Landau's phenomenological approach, J. Non-Cryst. Solids 345-346, 2004, 528-536.

876. M.I. Ojovan, Thermodynamic parameters of bonds in glassy materials from shear viscosity coefficient data, Int. J. Appl. Glass Sci. 5, 1, 2014, 22-25.

(2306)A. Hrussanova, L. Mirkova, Ts. Dobrev, S. Vasilev, Influence of temperature and current density on oxygen overpotential and corrosion rate of Pb-Co₃O₄, Pb-Ca-Sn, and Pb-Sb anodes for copper electrowinning: Part I, Hydrometallurgy, 72(3-4)(2004)205-213.

877. Y. Zhang, B. Chen, Z. Guo, Electrochemical properties and microstructure of Al/Pb-Ag and Al/Pb-Ag-Co anodes for zinc electrowinning, Acta Metallurgica Sinica(English Letters), 27(2)(2014)331-337.

878. Y.-C. Zhang, B.-M. Chen, H.-T. Yang, H. Huang, Z.-C. Guo, Anodic behavior and microstructure of Al/Pb-Ag-Co anode during zinc electrowinning, Journal of Central South University, 21(1)(2014)83-88.

879. Y.-C. Zhang, B.-M. Chen, H.-T. Yang, Z.-C. Guo, R.-D. Xu, Anodic behavior and microstructure of Al/Pb-Ag anode during zinc electrowinning, Transactions of Nonferrous Metals Society of China(English Edition), 24(3)(2014)893-899.

(2307)A. Hrussanova, L. Mirkova, Ts. Dobrev, Influence of additives on the corrosion rate and oxygen overpotential of Pb-Co₃O₄, Pb-Ca-Sn and Pb-Sb anodes for copper electrowinning: Part II, Hydrometallurgy, 72(3-4)(2004)215-224.

880. Y. Zhang, B. Chen, Z. Guo, Electrochemical properties and microstructure of Al/Pb-Ag and Al/Pb-Ag-Co anodes for zinc electrowinning, Acta Metallurgica Sinica(English Letters), 27(2)(2014)331-337.

881. Y.-C. Zhang, B.-M. Chen, H.-T. Yang, Z.-C. Guo, R.-D. Xu, Anodic behavior and microstructure of Al/Pb-Ag anode during zinc electrowinning, Transactions of Nonferrous Metals Society of China(English Edition), 24(3)(2014)893-899.

(2311)S. Ivanov, V. Tsakova Silver electrocrystallization at polyaniline-coated electrodes Electrochim. Acta, 49, 2004, 913-921.

882. V.-T.Gruia, A. Ispas, M. Wilke, I. Efimov, A. Bund, Application of acoustic impedance method to monitoring of sensors: Metal deposition on viscoelastic polymer substrate, *Electrochimica Acta*, 118, 2014, 88-91.

(2315)I. Krastev, T. Valkova, A. Zielonka, Structure and Properties of Electrodeposited Silver-Bismuth Alloys, Journal of Applied Electrochemistry, 34, 1,(2004), 79-85.

883. C. van der Horst, B. Silwana, E. Iwuoha & V. Somerset, Synthesis and Characterization of Bismuth-Silver Nanoparticles for Electrochemical Sensor Applications *Analytical Letters* just-accepted (2014), DOI:10.1080/00032719.2014.979357, (http://www.tandfonline.com/doi/full/10.1080/00032719.2014.979357#.VMJhy_6sWPs).

(2320)Polymer translocation through a nanopore induced by adsorption: Monte Carlo simulation of a coarse-grained model, Milchev, A; Binder, K; Bhattacharya, A, JOURNAL OF CHEMICAL PHYSICS Volume: 121 Issue: 12 Pages: 6042-6051 Published: SEP 22 2004

884. Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study, Polson, James M.; Dunn, Taylor R., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 18 Article Number: 184904 Published: MAY 14 2014

885. V.V. Palyulin, T. Ala-Nissila, R. Metzler, Polymer translocation: The first two decades and the recent diversification. 10(2014)9016-9037.

(2328)Petrova, M., "Chemical deposition of metal composite coatings on plastics", Transactions of the Institute of Metal Finishing, 82(1-2)(2004)43-50

886. Walsh, F.C., Ponce De Leon, C., A review of the electrodeposition of metal matrix composite coatings by inclusion of particles in a metal layer: An established and diversifying technology, *Transactions of the Institute of Metal Finishing*, 92(2)(2014), 83-98

(2330)Ts. Radeva, V. Milkova, I. Petkanchin, Dynamics of counterions in polyelectrolyte multilayers studied by electro-optics, Colloids Surf. A 240(2004)27-34.

887. C.A. Currie, C.D. Woods, F.E. Stanley, A.M. Stalcup, Chiral separations using heparin and polyelectrolyte multilayers in capillary electrophoresis, *Journal of Liquid Chromatography and Related Technologies* 37, 2014, 2218-2231.

(2333)P Stefanov, G Atanasova, D Stoychev, Ts Marinova, Electrochemical deposition of CeO₂ on ZrO₂ and Al₂O₃ thin films formed on stainless steel, Surface and Coatings Technology, 180–181, 1(2004), 446–449, Proceedings of Symposium G on Protective Coatings and Thin Films-03, of the E-MRS 2003 Spring Conference

888. B. Valdez, S. Kiyota, M. Stoycheva, R. Zlatev, J.M. Bastidas, Cerium-based conversion coatings to improve the corrosion resistance of aluminium alloy 6061-T6, *Corrosion Science*, Volume 87, October 2014, Pages 141–149, ISSN-0010938X

889. Aliofkhaezai, M., Ali, N., Fabrication and Properties of Micro- and Nanostructured Coatings Using Electrochemical Depositions, Book Chapter, *Comprehensive Materials Processing*, 7,(2014)119-156

890. Dibenedetto, A., Angelini, A., Di Bitonto, L., De Giglio, E., Cometa, S., Aresta, M., Cerium-based binary and ternary oxides in the transesterification of dimethylcarbonate with phenol, *ChemSusChem*, 7, 4(2014)1155-1161

(2335)E. Stoyanova, St Takeva, Z Kostov, D Stoychev, Decorative and corrosion-protective effect upon colouring anodised aluminium with azodyes, 2004, Transactions of the Institute of Metal Finishing, 82, pp. 157-163, ISSN: 1745-9192

891. Mikhail Pashchanka, Sandeep Yadav, Thorsten Cottre and Jörg J. Schneider, Porous alumina-metallic Pt/Pd, Cr or Al layered nanocoatings with fully controlled variable interference colors, *Nanoscale*, 6(2014)12877-12883
- (2338)D. Tatchev, R. Kranold, Maximum-entropy method as a routine tool for determination of particle size distributions by small-angle scattering, Journal of Applied Crystallography, 37(2004)32-39.**
892. D.Sen, A. Das, S. Mazumder. An iterative method to extract the size distribution of non-interacting polydisperse spherical particles from small-angle scattering data, *Journal of Applied Crystallography*, 47, 2014, 712-718.
- (2339)D. Tatchev, A. Heinemann, A. Wiedenmann, A. Hoell, Determination of particle size distributions by small-angle scattering with polarized neutrons using maximum-entropy method, Journal of Applied Crystallography 37(2004)40-47.**
893. D.Sen, A. Das, S. Mazumder. "An iterative method to extract the size distribution of non-interacting polydisperse spherical particles from small-angle scattering data." *Journal of Applied Crystallography*, 47, 2014, 712-718.
- (2340)P. Tchoukov, E. Mileva, D. Exerowa, Drainage time peculiarities of foam films from amphiphilic solutions, Colloids and Surfaces A: Physicochemical and Engineering Aspects 238(2004)19-25.**
894. Стефан Стоянов, "Взаимодействие на липополизахариди и четириантенни олигоглицини във водна среда", Дипломна работа за ОС "магистър", СУ „Св. Климент Охридски“ 2014.
- (2344)Polymer nanodroplets forming liquid bridges in chemically structured slit pores: A computer simulation, Yaneva, J; Milchev, A; Binder, K, JOURNAL OF CHEMICAL PHYSICS Volume: 121 Issue: 24 Pages: 12632-12639 Published: DEC 22 2004**
895. On the characterization of crystallization and ice adhesion on smooth and rough surfaces using molecular dynamics, Singh, Jayant K.; Mueller-Plathe, Florian *APPLIED PHYSICS LETTERS* Volume: 104 Issue: 2 Article Number: 021603 Published: JAN 13 2014
- (2361)D. Platikanov, D. Exerowa, Thin liquid films in Soft Colloids, J. Lyklema (Ed.), Fundamentals of Interface and Colloid Science, vol 5, Elsevier Ltd. Amsterdam, (2005), 1-91.**
896. D. Arabadzhieva, P. Tchoukov, B. Soklev, E. Mileva, Interfacial layer properties and foam film drainage kinetics of aqueous solutions of hexadecyltrimethylammonium chloride, *Colloids Surf.A Physicochem.Eng.Asp.* 460, 2014, 28-37.
897. P. Tchoukov, F. Yang, Z. Xu, T. Dabros, J. Czarnecki, J. Sjöblom, Role of asphaltenes in stabilizing thin liquid emulsion films, *Langmuir* 30, 2014, 3024-3033.
898. F. Yang, P. Tchoukov, E. Pensini, T. Dabros, J. Czarnecki, J. Masliyah, Z. Xu, Asphaltene subfractions responsible for stabilizing water-in-crude oil emulsions. Part 1: Interfacial behaviors, *Energy Fuels*, 28, 2014, 6897-6904.
- (2370)N. Boshkov, K.Petrov, D. Kovacheva, S.Vitkova, S. Nemska, "Influence of the alloying component on the protective ability of some zinc galvanic coatings", Electrochimica Acta, 51 1(2005)77-84.**
899. A.G. Marques, A.M. Simoes, "EIS and SVET assessment of corrosion resistance of thin Zn-55% Al-rich primers. Effect of immersion and of controlled deformation", *Electrochimica Acta*, 148, 2014, 153 – 163.
900. S. Ganeshan, G. Prabhu, B. Popov, "Electrodeposition and characterization of Zn-Mn coatings for corrosion protection", *Surface and Coatings Technology*, 238, 2014, 143 – 151.

901. A. Raffee, K. Raeissi, M.A. Golozar, "Characterization and corrosion resistance of Zn-Mn coatings electrodeposited from acidic chloride bath", *Transactions of the Institute of Metal Finishing*, 92, 2, 2014, 115-120.
902. M. Marin-Sanchez, P. Ocon, A. Conde, I. Garsia, "Electrodeposition of Zn-Mn coatings on steel from 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide ionic liquid", *Surface and Coatings Technology*, 258, 2014, 871 – 877.

(2371)N. Boshkov, K. Petrov, S. Vitkova, G. Raichevsky, "Galvanic alloys Zn-Mn - composition of the corrosion products and their protective ability in sulfate containing medium", *Surface and Coatings Technology*, 194 2-3(2005)276-282.

903. F.J. Quites, J.C. Germino, T.D.C. Alvars, "Improvement in the emission properties of a luminescent anionic dye intercalated between the lamellae of zinc hydroxide-layered", *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 459, 2014, 194-201.
904. F. Barahuie, M.Z. Hussein, S. Fakurazi, Z. Zainal, "Development of drug delivery systems based on layered hydroxides for nanomedicine", *International Journal of Molecular Sciences*, 15, 5, 2014, 7750-7786.
905. Y. Wang, J. Zeng, "Effects of manganese addition on microstructures and corrosion behavior of hot-dip zinc coatings of hot-rolled steels", *Surface and Coatings Technology*, 245, 2014, 55 – 65.
906. S. Ganeshan, G. Prabhu, B. Popov, "Electrodeposition and characterization of Zn-Mn coatings for corrosion protection", *Surface and Coatings Technology*, 238, 2014, 143 – 151.
907. C. Yao, Z. Wang, S.L. Tay, W. Gao, "Effects of Mg on morphologies and properties of hot-dipped Zn-Mg coatings", *Surface and Coatings Technology*, 260, 2014, 39 – 45.
908. B. Szczygiel, A. Laszczynska, "Influence of bath concentration and pH on electrodeposition process of ternary Zn-Ni-Mo alloy coatings", *Transactions of the Institute of Metal Finishing*, 92, 4, 2014, 196-200.

(2376)Ts. Dobrovol'ska, I. Krastev, A. Zielonka, Effect of the electrolyte composition on In and Ag-In alloy electrodeposition from cyanide electrolytes, *Journal of Applied Electrochemistry*, 35,(2005), 1245-1251.

909. D.A. Lopez-Sauri, L. Veleva, G. Pérez, Analysis of nonlinear galvanostatic oscillations in Ag-Cd alloys electrodeposition, *Int.J.Electrochem.Sci.* 9(2014)1102-1116, цитат 11.
910. S. Sarkar, L. Balisetty, P.P. Shanbogh, S.C. Peter, Effect of ordered and disordered phases of unsupported Ag₃In nanoparticles on the catalytic reduction of p-nitrophenol, *J.Catal.* 318(2014)143-150, цитат 46.
911. V.D. Jovic, U.C. Lacnjevac and B.M.Jovic, Chapter: Electrodeposition and Characterization of Alloys and Composite Materials, in, *Modern Aspects of Electrochemistry 57, Electrodeposition and surface Finishing, Fundamentals and Applications*, ed. by StojanDjokic, Springer, 2014, цитат 83.

(2377)Ts. Dobrovol'ska, L. Veleva, I. Krastev, A. Zielonka, Composition and Structure of Silver-Indium Alloy Coatings Electrodeposited from Cyanide Electrolytes, *JES*, 152(3) C137-142(2005).

912. D.A. Lopez-Sauri, L. Veleva, G. Pérez, Analysis of nonlinear galvanostatic oscillations in Ag-Cd alloys electrodeposition, *Int.J.Electrochem.Sci.* 9(2014)1102-1116, цитат 10.
913. V.D. Jovic, U.C. Lacnjevac and B.M.Jovic, Chapter: Electrodeposition and Characterization of Alloys and Composite Materials, in, *Modern Aspects of Electrochemistry 57, Electrodeposition and surface Finishing, Fundamentals and Applications*, ed. by StojanDjokic, Springer, 2014.
914. Deborah Lacitignola, Benedetto Bozzini, IvonneSgura, Spatio-Temporal Organization in a Morphochemical Electrodeposition Model: Analysis and Numerical Simulation of Spiral Waves, *Acta Applicandae Matyhematicae*, August 2014, Volume 132, 1, 377-389

(2379)J. Georgieva, S. Armyanov, E. Valova, Ts. Tsacheva, I. Poullos, S. Sotiropoulos, Photoelectrochemical behaviour of electrodeposited tungsten trioxide and electrosynthesised titanium dioxide single component and bilayer coatings on stainless steel substrates, Journal of the Electroanalytical Chemistry, 585(2005)35-43

915. Q. Zheng, C. Lee, Visible Light Photoelectrocatalytic Degradation of Methyl Orange Using Anodized Nanoporous WO₃, *Electrochim. Acta*, 115, 2014, 140.

(2380)J. Georgieva, S. Kawashima, S. Armyanov, E. Valova, A. Hubin, Y. Koyama, O. Steenhaut, J. Haydu, J.-L. Delplancke, Ts. Tsacheva, Electroless Deposition of Ni-Sn-P and Ni-Sn-Cu-P Coatings, Journal of the Electrochemical Society, 152(2005) C783-C788.

916. Ho Hur, Characteristics and Corrosion Behaviors of Quaternary (Co/Ni/P/Mn)Electroless Plating, *Clean Technology*, 20,2014, 136-140.

917. O. R. M. Khalifa, E. A. Al Hamed, M. A. Shoeib, H. A. Mohamed, S. Y. Ahmed, Behavior of black nickel tin solar absorber coating, *Intern. Res. J. Manag. & Commerce*, 1, 2014, 88-96.

Karamanov A, Pelino M.,“Sinter-Crystallization in the System Diopside-Albite, Part II. Kinetics of Crystallization and Sintering”J. European Cer. Soc., 26, 2006, 2519-2526, ISSN: 0955-2219

918. Effect of composition on sinter-crystallization and properties of low temperature co-fired α -cordierite glass–ceramics. *Journal of the European Ceramic Society*. Volume 34, Issue 15, December 2014, Pages 3981-3991

919. Amorós, J. L.(2014, December). Towards Rational Design of Porcelain Tile Glazes. In *Advances in Science and Technology*(Vol. 92, pp. 138-147).

920. Křečková, M.(2014). Kinetika heterogenních procesů v technologii silikátů-dehydroxylace a rozpouštění jílových minerálů. Ph.D, Praha

Karamanov A, Pelino M., “Sinter-Crystallization in the System Diopside-Albite, Part I. Formation of Induced Crystallisation Porosity”, J. European Cer. Soc., 26, 2006, 2511-2517, ISSN: 0955-2219

921. Li, Z., Wu, J., Song, L., & Huang, Y.(2014). Effect of composition on sinter-crystallization and properties of low temperature co-fired α -cordierite glass–ceramics. *Journal of the European Ceramic Society*. Volume 34, Issue 15, December 2014, Pages 3981-3991

922. Choi, B. K., & Kim, E. S.(2014). Microwave dielectric properties of cordierite-diopside glass-ceramics. *Journal of Electroceramics*, 1-7.

Aloisi M., Karamanov A., Taglieri G., Ferrante F. Pelino M. , “Sintered Glass-Ceramic Composites from Vitrified MSW”, J. Hazardous Mat. ,2006 B137,138-143, ISSN: 0304-3894

923. Smiljanić, S.V., Grujić, S.R., Tošić, M.B., Živanović, V.D., Stojanović, J.N., Matijašević, S.D., Nikolić, J.D., Crystallization and sinterability of glass-ceramics in the system La₂O₃-SrO-B₂O₃, 2014, *Ceramics International* 40(1 PART A), pp. 297-305ISSN:0272-8842

924. Zhang, H.Y., He, H.H. , Characterization of microstructure of FA ceramic brick using SEM, *Advanced Materials Research*, 2014 ,849 , pp. 283-286, ISSN:1022-6680

925. Jarosz-Krzemińska, E., Helios-Rybicka, E., & Gawlicki, M. Utilization of neutralized spent sulfuric acid pickle liquor from metal treatment in cement production. *International Journal of Environmental Science and Technology*, 1-8., 2014

Karamanov A., Karamanova E., Ferrante F., Pelino M. , “The effect of scrap addition on the sintering behavior of hard porcelain”,*Ceramics International*, 32, 2006, 727-732, ISSN: 0272-8842

926. Li, J., Liang, J., Wang, F., & Wang, L.(2014). The role of firing process on bubble formation in a glaze layer of sanitary ware. *Thermochimica Acta*, 588, 75-80.
927. Li, J., Liang, J., Wang, L., & Wang, F.(2014). Effect of particle-size distribution on the surface appearance of glazed surface. *Journal of Thermal Analysis and Calorimetry*, 115(2), 1127-1131.

Karamanov A., Taglieri G. and Pelino M., "Sintering Behavior and Properties of Iron-Rich Glass-Ceramics", *J. American Cer. Soc.*, 87, 8, 2004, 1571-1574, ISSN: 0002-7820

928. Lipatov, Y. V., Arkhangelsky, I. V., Dunaev, A. V., Gutnikov, S. I., Manylov, M. S., & Lazoryak, B. I. Crystallization of zirconia doped basalt fibers, *Thermochimica Acta.*, 575 , pp. 238-243(2014)
929. Dai, W. B., Li, Y., Cang, D. Q., Zhou, Y. Y., & Fan, Y.(2014). Effects of sintering atmosphere on the physical and mechanical properties of modified BOF slag glass. *International Journal of Minerals, Metallurgy, and Materials*, 21(5), 494-502.

Aloisi M, Karamanov A, Pelino M., "Sintered glass-ceramic from municipal solid waste incinerator ashes", *Journal of Non-Crystalline Solids*, 345: 192-196 OCT 15 2004, ISSN: 0022-3093

930. Zhang, H. Y., & Li, S. Z., EDS(Energy Sipersive Spectrometer)Analysis of Sintered Construction Material. *Advanced Materials Research*, 2014, 849, 257-260, ISSN:1022-6680
931. Qian, S., Lin, J., Tang, B., Preparation of glass foams from vitrified municipal solid waste incinerator ash, Kuei Suan Jen Hsueh Pao/*Journal of the Chinese Ceramic Society*, Volume 42, Issue 1, January 2014, Pages 108-112
932. Mücahit SÜTÇÜ, Sedat AKKURT, Development of Lightweight Refractory Insulating Brick Using Recycled Paper Processing Waste As Alternative Raw Material, *AKU J. Sci. Eng.* 14(2014)OZ5780(505-512)

Karamanov A., Arrizza L., Matecovetc I. and Pelino M., "Properties of sinteried glass-ceramics in the diopside-albite system", *Ceramics International*, 30, 2004, 2129-2135, ISSN: 0272-8842

933. Reddy, A. A., Goel, A., Tulyaganov, D. U., Sardo, M., Mafra, L., Pascual, M. J., & Ferreira, J. M.(2014). Thermal and mechanical stability of lanthanide-containing glass–ceramic sealants for solid oxide fuel cells. *Journal of Materials Chemistry A*, 2(6), 1834-1846
934. Diba, M., Goudouri, O. M., Tapia, F., & Boccaccini, A. R.(2014). Magnesium-containing bioactive polycrystalline silicate-based ceramics and glass-ceramics for biomedical applications. *Current Opinion in Solid State and Materials Science*. Volume 18, Issue 3, June 2014, Pages 147-167
935. Kaur, G., Pandey, O. P., & Singh, K.(2014). Self-Healing Behavior of Barium–Lanthanum–Borosilicate Glass and Its Reactivity with Different Electrolytes for SOFC Applications. *International Journal of Applied Ceramic Technology*, 11(1), 136-145.
936. Guo, X., Cai, X., Song, J., Yang, G., & Yang, H.(2014). Crystallization and microstructure of CaO–MgO–Al₂O₃–SiO₂ glass–ceramics containing complex nucleation agents. *Journal of Non-Crystalline Solids*, 405, 63-67.
937. Byeon, S.M., Lee, B.-H., Diopside crystal glaze using seed, *Korean Journal of Materials Research*, Volume 24, Issue 8, 2014, Pages 407-412

(2365)I.Avramov, Ts. Vassilev, I. Penkov "the Glass Transition Temperature Of Silicate And Borate Glasses" *J. Non-Cryst. Sol.* 351/6-7(2005)Pp 472-476 ISSN 0022-3093

938. Jena, H; Asuvathraman, R; Kutty, KVG; Rao, PRV., Comparison of electrical conductivity and thermal properties of borosilicate glass with and without simulated radioactive waste.

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 115(1):367-374;
10.1007/s10973-013-3229-6 JAN 2014 ISSN: 1388-6150

939. Petersen, RR; Konig, J; Smedskjaer, MM; Yue, YZ, Foaming of CRT panel glass powder using Na₂CO₃. GLASS TECHNOLOGY-EUROPEAN JOURNAL OF GLASS SCIENCE AND TECHNOLOGY PART A, 55(1):1-6; FEB 2014
940. Taurino, R; Lancellotti, I; Barbieri, L; Leonelli, C, Glass-ceramic foams from borosilicate glass waste, INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, 5(2):136-145; SI 10.1111/ijag.12069 JUN 2014
941. Curtzwiler, G; Early, M; Gottschalk, D; Konecki, C; Peterson, R; Wand, S; Rawlins, JW, JCT The world of surface coatings is centered around the glass transition temperature, but which one?, COATINGSTECH, 11(8):28-38; AUG 2014
942. Khasa, S; Dahiya, MS; Agarwal, A, SOLID STATE PHYSICS: PROCEEDINGS OF THE 58TH DAE SOLID STATE PHYSICS SYMPOSIUM 2013, PTS A & B, 1591 796-798; 10.1063/1.4872759 2014
943. Khasa, S., Dahiya, M.S., Agarwal, A., Chand, P, Effect of alkali addition on DC conductivity & thermal properties of vanadium-bismo-borate glasses. AIP Conference Proceedings Journal of Molecular Structure , 1079 pp. 15 – 20, 2014

**(2366) I. Avramov “viscosity In Disordered Media” J. Non-Cryst. Sol. 351(2005)3163 – 3173
ISSN 0022-3093**

944. Hoell, A; Varga, Z; Raghuwanshi, VS; Krumrey, M; Bocker, C; Russel, C., ASAXS study of CaF₂ nanoparticles embedded in a silicate glass matrix JOURNAL OF APPLIED CRYSTALLOGRAPHY, 47 60-66; 10.1107/S1600576713030100 1 JAN 2014
945. Bocker, C; Wiemert, J; Russel, C, The effect of viscosity on nanocrystallization of strontium fluoride from a silicate glass. SOLID STATE SCIENCES, 30 55-60; 10.1016/j.solidstatesciences.2014.02.009 APR 2014
946. Martinez-Garcia, JC; Rzoska, SJ; Drzozd-Rzoska, A; Martinez-Garcia, J; Mauro, JC, Divergent dynamics and the Kauzmann temperature in glass forming systems SCIENTIFIC REPORTS, 4 10.1038/srep05160 JUN 4 2014
947. D O López, N Sebastian, M R de la Fuente, J C Martínez-García, J Salud, M A Pérez-Jubindo, S Diez-Berart, D A Dunmur, G R Luckhurst , The Journal of Chemical Physics (Impact Factor: 3.16). 07/2012; 137(3):034502. DOI:10.1063/1.4733561
948. Sanditov, D.S., Deformation-activation model of viscous flow of glass-forming liquids Journal of Non-Crystalline Solids 400(2014), pp. 12 – 20
949. Casalini, R; Roland, CM., Determination of the thermodynamic scaling exponent for relaxation in liquids from static ambient-pressure quantities PHYSICAL REVIEW LETTERS, 113(8):10.1103/PhysRevLett.113.085701 AUG 18 2014
950. Longinotti, M.P., Trejo González, J.A., Corti, H.R., Concentration and temperature dependence of the viscosity of polyol aqueous solutions. Cryobiology volume 69, issue 1, year 2014, pp. 84 – 90
951. Hoell, A., Varga, Z., Raghuwanshi, V. S., Krumrey, M., Bocker, C., & Russel, C. (2014). ASAXS study of CaF₂ nanoparticles embedded in a silicate glass matrix. Journal of Applied Crystallography, 47(1), 0-0.
952. Paula Longinotti, M., Trejo González, J. A., & Corti, H. R. . Concentration and temperature dependence of the viscosity of polyol aqueous solutions. Cryobiology 1(2014)84-90.
953. Martinez-Garcia, J. C., Rzoska, S. J., Drzozd-Rzoska, A., Martinez-Garcia, J., & Mauro, J. C. (2014). Divergent dynamics and the Kauzmann temperature in glass forming systems. Nature, Scientific Reports, 4. (2014) 5160
954. Bocker, Christian, Janine Wiemert, and Christian Rüssel. "The effect of viscosity on nanocrystallization of strontium fluoride from a silicate glass." Solid State Sciences 30(2014): 55-60.
955. Wang, L. Probabilistic interpretation of liquid fragility. Journal of Non-Crystalline Solids 407(2014)161-169. 161

(2367) I. Avramov, K. Avramova, C. Russel J. Cryst. Growth 285(2005)394-399 “New method to analyze data on overall crystallization kinetics”

956. Shete, G; Khomane, KS; Bansal, Molecular relaxation behavior and isothermal crystallization above glass transition temperature of amorphous hesperetin AK, *JOURNAL OF PHARMACEUTICAL SCIENCES*, 103(1):167-178; 10.1002/jps.23766 JAN 2014
957. Kawakami, K; Harada, T; Miura, K; Yoshihashi, Y; Yonemochi, E; Terada, K; Moriyama, H, *MOLECULAR PHARMACEUTICS*, 11(6):1835-1843; 10.1021/mp400679m JUN 2014
958. Kolodziejczyk, K; Grzybowska, K; Wojnarowska, Z; Dulski, M; Hawelek, L; Paluch, M, *CRYSTAL GROWTH & DESIGN*, 14(7):3199-3209; 10.1021/cg401364e JUL 2014

(2372) Localization of a multiblock copolymer at a selective interface: Scaling predictions and Monte Carlo verification., A. Corsi, A. Milchev, V.G. Rostiashvili, T.A. Vilgi ,JOURNAL OF CHEMICAL PHYSICS Volume: 122 Issue: 9 Art Num: 094907 Published: MAR 1 2005

959. Multiblock Copolymer Solutions in Contact with a Surface: Self-Assembly, Adsorption, and Percolation, Hugouvieux, Virginie; Kolb, Max, *LANGMUIR* Volume: 30 Issue: 41 Pages: 12400-12410 Published: OCT 21 2014
960. Evidence of random copolymer adsorption at fluctuating selective interfaces from Monte-Carlo simulation studies, Gazuz, Igor; Sommer, Jens-Uwe, *SOFT MATTER* Volume: 10 Issue: 37 Pages: 7247-7255 Published: 2014

(2385)S. Ivanov, V.Tsakova Electroless versus electrodriven deposition of silver crystals in polyaniline: Role of silver anion complexes, Electrochim. Acta,50 , 2005, 5616-5623.

961. P. Bober, J. Stejskal, M. Trchová, J. Prokeš, In-situ prepared polyaniline-silver composites: Single- and two-step strategies, *Electrochimica Acta*, 122 , 2014, 259-266.
962. A. Fedorczyk, J. Ratajczak, A. Czerwiński, M. Skompska, Selective deposition of gold nanoparticles on the top or inside a thin conducting polymer film, by combination of electroless deposition and electrochemical reduction, *Electrochim. Acta*, 122 , 2014, 267-274.

(2387)D.Kashchiev, P.G.Vekilov, A.B.Kolomeisky, "Kinetics of two-step nucleation of crystals", J.Chem.Phys. 122(2005)244706

963. V.Agarwal, B.Peters, “Solute precipitate nucleation: a review of theory and simulation advances”, *Adv.Chem.Phys.* 155(2014)97.
964. J.H.Harding, C.Freeman, D.Duffy, “Oriented crystal growth on organic monolayers”, *Cryst.Eng.Comm.* 16(2014)1430.
965. M.D.Oleksiak, J.D.Rimer, “Synthesis of zeolites in the absence of organic structure-directing agents: factors governing crystal selection and polymorphism”, *Rev.Chem.Eng.* 30(2014)1.
966. Y.Mikhlin, A.A.Karacharov, M.N.Likhatski, T.Podlipskaya, I.Zizak, “Direct observation of liquid pre-crystallization intermediates during the reduction of aqueous tetrachloroaurate by sulfide ions”, *Phys.Chem.Chem.Phys.* 16(2014)4538.
967. T.H.Zhang, X.Y.Liu, “Experimental modelling of single-particle dynamic processes in crystallization by controlled colloidal assembly”, *Chem.Soc.Rev.* 43(2014)2324.
968. M.R.Ward, “Non-photochemical laser-induced nucleation(NPLIN): An experimental investigation of crystal nucleation”, Ph.D.Thesis, Edinburgh University, Edinburgh, 2014.
969. D.Xia, Y.Gan, F.Cui, “Application of precipitation methods for the production of water-insoluble drug nanocrystals: Production techniques and stability of nanocrystals”, *Curr.Pharmaceut.Des.* 20(2014)408.

(2387)I. Avramov, G. Voelksch , Journal Of Non-Crystalline Solids 304/1-3(2002)25-30 Near-Surface Crystallization Of Cordierite Glass ISSN 0022-3093

970. Bocker, C. I., JOURNAL OF MATERIALS SCIENCE, 49(7):2795-2801; 10.1007/s10853-013-7984-3 APR 2014
971. Wisniewski, W; Russel, C, JOURNAL OF NON-CRYSTALLINE SOLIDS, 403 124-129; 10.1016/j.jnoncrysol.2014.07.015 NOV 1 2014
- (2392)Krastev, I.; Valkova, T.; Zielonka, A.: Elektrolytische Abscheidung und Eigenschaften von zyklisch modulierten Silber-Wismut-Legierungsüberzügen, Galvanotechnik 96,(2005)S. 1790-1795.**
972. Christian Grieger, Frank Köster. Creation of Functional Layers for pH Sensors by Galvanic Deposition of Antimony and Bismuth. Science Journal of Chemistry. Vol. 2, No. 2, 2014, pp. 6-10.
- (2393)J.Krug, V.Tonchev, S.Stoyanov, A.Pimpinelli, Scaling properties of step bunches induced by sublimation and related mechanisms, Physical Review B 71(2005)045412.**
973. T. H. R. Cunha, J. Ek-Weis, R. G. Lacerda, and A. S. Ferlauto, Graphene chemical vapor deposition at very low pressure: The impact of substrate surface self-diffusion in domain shape, Applied Physics Letters 105, 2014, 073104.
- (2401)E. Mileva, P. Tchoukov, D. Exerowa, Amphiphilic nanostructures in thin liquid films, Advances in Colloid and Interface Science 114-115(2005)47-52.**
974. J.M. Aguilera, Where is the nano in our foods?, J.Agric.Food Chem.62, 2014, 9953-9956.
975. Стефан Стоянов, “Взаимодействие на липополизахариди и четириантенни олигоглицини във водна среда”, Дипломна работа за ОС “магистър”, СУ „Св. Климент Охридски” 2014.
- (2409)A. Penkova, O. Gliko, I. Dimitrov, F. Hodjaoglu, Chr. Nanev, and P. Vekilov, Enhancement and suppression of protein crystal nucleation due to electrically-driven convection, Journal of Crystal Growth, 275(1-2)(2005)e1527-e1532**
976. Boltsis, G. Lagoumintzis, D. S. M. Chatzileontiadou, P. Giastas, S. J. Tzartos, D. D. Leonidas, and K. Poulas, Non-contact current transfer induces the formation and improves the X-ray diffraction quality of protein crystals, Cryst. Growth Des.14(9),2014, 4347–4354
977. Ikni, B. Clair, P. Scoufflaire, S. Veessler, J-M. Gillet, N. E. Hassan, F. Dumas, and A. S. Biré, Experimental demonstration of the carbamazepine crystallization from non-photochemical laser-induced nucleation in acetonitrile and methanol, Cryst. Growth Des.14(7),2014, 3286–3299
978. Kwokal, K. J. Roberts, Direction of the polymorphic form of entacapone using an electrochemical tuneable surface template, CrystEngComm 16(17), 2014, 3487-3493
- (2411)Ts. Radeva, M. Grozeva, In situ determination of thickness and electrical properties of multilayers from weak polyelectrolytes, J. Colloid Interface Sci. , 287(2005)415-421.**
979. Szilagy, G. Trefalt, A. Tiraferri, P. Maroni, M. Borkovec, Polyelectrolyte adsorption, interparticle forces, and colloidal aggregation, Soft Matter 10, 2014, 2479-2502.
- (2417)C. Stubenrauch, K. Khristov, Foams and foam films stabilized by CnTAB: Influence of the chain length and of impurities, Journal of Colloid and Interface Science 286(2005)710-718.**
980. R. Mensire, K. Piroird, E. Lorenceau, Coalescence of dry foam under water injection, Soft Matter 10, 2014, 7068-7072.
981. N. Schelero, R. Miller, R. von Klitzing, Effect of oppositely charged hydrophobic additives(alkanoates)on the stability of C14TAB foam films, Colloids Surf.A Physicochem.Eng.Asp. 460, 2014, 158-167.

(2419)D. Tatchev, G. Goerigk, E. Valova, J. Dille, R. Kranold, S. Armyanov, J.-L. Delplancke, Investigation of the Primary Crystallization of Ni-17at. % P Alloy by ASAXS, Journal of Applied Crystallography, 38(2005)787–794

982. M. Fisk, J. Andersson, R. du Rietz, S. Haas, S. Hall, Precipitate evolution in the early stages of ageing in Inconel 718 investigated using small-angle x-ray scattering, *Mater. Sci. Engineering A*, 612, 202-207(2014).
983. W Blanc, H Francois-Saint-Cyr, I Martin, P Lecoustumer, C Hombourger, D. R. Neuville, D.J. Larson, T.J. Prosa, C. Guillermier, Variation de la composition de nanoparticules de 1-10 nm obtenues par séparation de phase dans un verre de silice. *Le verre*, Oct 2014, Baccarat, France. Poster, [hal-01081780.https://hal.archives-ouvertes.fr/hal-01081780/document](https://hal.archives-ouvertes.fr/hal-01081780/document)
984. H. Francois-Saint-Cyr, I Martin, W. Blanc, P. LeCoustumer, C Hombourger, C. Neuville, D.J. Larson, T.J. Prosa, C. Guillermier, Correlative Compositional Analysis of Fiber-Optic Nanoparticles, *Microscopy and Microanalysis*, 20(S3)2014, 994-995.

(2423)E. Valova, J. Dille, S. Armyanov, J. Georgieva, D. Tatchev, M. Marinov, J.-L. Delplancke, O. Steenhaut, A. Hubin, Interface between electroless amorphous Ni-Cu-P coatings and Al substrate, Surface and Coatings Technology, 190(2005)336-344

985. Y. H. Cheng, H. Y. Chen, Z. C. Zhu, T. C. Jen, Y. X. Peng, Experimental study on the anti-fouling effects of Ni-Cu-P-PTFE deposit surface of heat exchangers, *Appl. Therm. Eng.*, 68, 2014, 20-25.
986. Y. Cheng, H. Chen, D. Han, Y. Zou, Z. Zhu, Effect of PTFE addition on the properties of electroless Ni-Cu-P-PTFE deposits, *Xiyou Jinshu Cailiao Yu Gongcheng/Rare Metal Materials & Engineering*, 43, 2014, 1025-1030.
987. Ruffini, L. A. Hamilton, D. Buechel-rimmel, J. M. Laplante, A. Schaffer, F. K. Lowes, Electroless coated disks for high temperature applications and methods of making the same, United States Patent 8828482(2014).

(2447)Ts. Radeva, Structure and electrical properties of polyelectrolyte multilayers on colloidal particles, In: Molecular and Colloidal Electro-optics, Stoylov and Stoimenova Eds., Taylor&Francis, Boca Raton, London, New York 2006, 401.

988. A.M. Zhivkov, R.P. Hristov, Electrical polarizability dispersion of alumina particles with adsorbed carboxymethyl cellulose, *RSC Advances* 4, 2014, 2715-2728.

(2476)D.A. Koleva, J. Hu, A.L.A. Fraaij, P. Stroeven, N. Boshkov, J.H.W. de Wit, “Quantitative characterisation of steel/cement paste interface microstructure and corrosion phenomena in mortars suffering from chloride attack”, Corrosion Science, 48 12(2006)4001-4019.

989. A. Pavone, D. Harbec, T. Chaussadent, A. Tagnit-Hamou, L. Divet, “Impact of alternative cementitious material on mechanical and transfer properties of concrete”, *ACI Materials Journal*, 111, 3, 2014, 251 – 261.
990. P.A. Itty, M. Serdar, C. Meral, D. Parkinson, A.A. MacDowell, D. Bjegovic, P.J.M. Monteiro, “In situ 3D monitoring of corrosion on carbon steel and ferritic stainless steel embedded in cement paste”, *Corrosion science*, 83, 2014, 409-418.

(2451)A.M. Zhivkov, Geometry of purple membranes in aqueous medium in Molecular and Colloidal Electro-optics, S. Stoylova and M. Stoimenova(Eds.), Taylor&Francis, Boca Raton London, New York,(2006), 327-365.

991. V. Doltchinkova, P.R. Angelova, Phytohemagglutinin and light-induced charge density effects on plasma membrane of *Plectonema boryanum*, *Journal of New Developments in Chemistry* 1 2014, 11-19.

(2452)E.L. Apostolova, A.G. Dobrikova, P.I. Ivanova, I.B. Petkanchin, S.G. Taneva, Relationship between the organization of the PSII supercomplex and the functions of the photosynthetic apparatus, J. Photochem. Photobiology 83(2006)114-122.

992. D. Simic, H. Lepedus, V. Jurkovic, J. Antunovic, V. Cesar, Quantitative genetic analysis of chlorophyll a fluorescence parameters in maize in the field environments, *J. Integrative Plant Biology* 56, 2014, 695-708.

993. M. Foroozanfar, S. Exbrayat, L. Gentzbittel, F. Debelle, A. Sarrafi, Genetic variability and identification of quantitative trait loci affecting plant growth and chlorophyll fluorescence parameters in the model legume *Medicago truncatula* under control and salt stress conditions, *Functional Plant Biology* 41, 2014, 983-1001.

(2454)Polymer chains in a soft nanotube: A Monte Carlo Study,Avramova, K; Milchev, A JOURNAL OF CHEMICAL PHYSICS Volume: 124 Issue: 2 Article Number: 024909 Published: JAN 14 2006

994. The effect of nanoconfinement on methyl methacrylate polymerization: T-g, molecular weight, and tacticity,Zhao, HY; Yu, ZN; Begum, F; Hedden, RC; Simon, SL,POLYMER Volume: 55 Issue: 19 Pages: 4959-4965 Published: SEP 15 2014

995. Localization and stretching of polymer chains at the junction of two surfaces Patra, Tarak K.; Singh, Jayant K., JOURNAL OF CHEMICAL PHYSICS Volume: 140 Issue: 20 Article Number: 204909 Published: MAY 28 2014

996. Confinement of spherical colloid particles in a soft fluid membrane tube Zheng Bin; Meng Qing-Tian, CHINESE PHYSICS B Volume: 23 Issue: 3 Article Number: 038701 Published: MAR 2014

(2456)N. Boshkov, K.Petrov, G.Raichevsky,“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)5995-6001.

997. S. Ganeshan, G. Prabhu, B. Popov, “Electrodeposition and characterization of Zn-Mn coatings for corrosion protection”, *Surface and Coatings Technology*, 238, 2014, 143 – 151.

998. C.R. Tomachuk, C.I. Elsner, A.R. di Sarli, “Electrochemical characterization of chromate free conversion coatings on electrogalvanized steel”, *Materials Research*, 17, 1 2014, 61-68.

999. A. Raffee, K. Raeissi, M.A. Golozar, “Characterization and corrosion resistance of Zn-Mn coatings electrodeposited from acidic chloride bath”, *Transactions of the Institute of Metal Finishing*, 92, 2, 2014, 115-120.

(2458)Copolymer adsorption kinetics at a selective liquid-liquid interface: Scaling theory and computer experiment, Corsi, A; Milchev, A; Rostishvili, VG; T.; A. Vilgis, EUROPHYSICS LETTERS Volume: 73 Issue: 2 Pages: 204-210 Published: JAN 2006

1000. Multiblock Copolymer Solutions in Contact with a Surface: Self-Assembly, Adsorption, and Percolation, Hugouvieux, Virginie; Kolb, Max, LANGMUIR Volume: 30 Issue: 41 Pages: 12400-12410 Published: OCT 21 2014

1001. Evidence of random copolymer adsorption at fluctuating selective interfaces from Monte-Carlo simulation studies, Gazuz, Igor; Sommer, Jens-Uwe,SOFT MATTER Volume: 10 Issue: 37 Pages: 7247-7255 Published: 2014

(2464)C. Gabrielli, G. Maurin, L. Mirkova, H. Perrot, B. Tribollet, Transfer function analysis of hydrogen permeation through a metallic membrane in a Devanathan cell. I. Theory, Journal of Electroanalytical Chemistry, 590(1)(2006)1-14.

1002. E.Legrand, A. Oudriss, S. Frappart,(.), X. Feaugas, J.Bouhattate, Computational analysis of geometrical factors affecting experimental data extracted from hydrogen permeation tests: III - Comparison with experimental results from the literature, *International Journal of Hydrogen Energy*, 39(2)(2014)1145-1155.

(2465)C. Gabrielli, G. Maurin, L.Mirkova, H.Perrot, Transfer function analysis of hydrogen permeation through a metallic membrane in a Devanathan cell. Part II: Experimental investigation on iron membrane, Journal of Electroanalytical Chemistry, 590(1)(2006)15-25.

1003. S.J. Kim, K.Y. Kim, Hydrogen permeation in high strength steel under load in aqueous environment, Corrosion Engineering Science and Technology, 49(2)(2014)136-142.

1004. J. Svoboda, G. Mori, A. Prethaler, F.D. Fischer, Determination of trapping parameters and the chemical diffusion coefficient from hydrogen permeation experiments, Corrosion Science, 88(2014)93-100.

(2466)J. Georgieva, S. Armyanov, E. Valova, I. Poullos, S. Sotiropoulos, Preparation and photoelectrochemical characterisation of electrosynthesised titanium dioxide deposits on stainless steel substrates, Electrochimica Acta, 51(2006)2076–2087.

1005. E. T. Deva Kumar, V. Ganesh, Hierarchically Ordered Tubular Titanium Dioxide Electrodes: Preparation, Electrochemical Characterization, and Application as a Bifunctional Catalyst, ChemElectroChem, 1,2014, 590–600.

1006. C. Pablos, J. Marugán, R. van Grieken, C. Adán, A. Riquelme, J. Palma, Electrochim. Acta, Correlation between photoelectrochemical behaviour and photoelectrocatalytic activity and scaling-up of P25-TiO₂ electrodes, 130, 2014, 261-270.

(2467)B Grbic, N Radic, B Markovic, P Stefanov, D Stoychev, Ts Marinova, Influence of manganese oxide on the activity of Pt/Al₂O₃ catalyst for CO and n-hexane oxidation, Applied Catalysis B: Environmental, Volume 64, Issues 1–2, 18 April 2006, Pages 51–56, ISSN: 0926-3373.

1007. Luu Cam Loc, Nguyen Tri, Hoang Tien Cuong, Ho Si Thoang, Yu. A. Agafonov, N. A. Gaidai, N. V. Nekrasov, A. L. Lapidus, Kinetics of the total oxidation of para-xylene and its mixtures with carbon monoxide over supported copper catalysts, Kinetics and Catalysis, September 2014, Volume 55, Issue 5, pp 611-619, ISSN: 1608-3210(Online).

1008. Jinjun Li, Liang Li, Wei Cheng, Feng Wu, Xiaofei Lu, Zepeng Li, Controlled synthesis of diverse manganese oxide-based catalysts for complete oxidation of toluene and carbon monoxide, Chemical Engineering Journal, Volume 244, 15 May 2014, Pages 59–67, ISSN: 1385-8947

1009. Fang Wang, Hongxing Dai, Jiguang Deng, Shaohua Xie, Huanggen Yang, Wen Han, Nanoplate-aggregate Co₃O₄ microspheres for toluene combustion, Chinese Journal of Catalysis, Volume 35, Issue 9, September 2014, Pages 1475–1481, ISSN: 02539837.

1010. Xiaoyan Xi, Shuangyan Ma, Jian-Feng Chen, Yi Zhang, Promotional effects of Ce, Mn and Fe oxides on CuO/SiO₂ catalysts for CO oxidation, Journal of Environmental Chemical Engineering, 2, 2,(2014)1011–1017, ISSN: 2213-3437.

1011. [PDF]纳米片聚结 Co₃O₄微球催化甲苯燃烧王芳, 戴洪兴, 邓积光, 谢少华, 杨黄根, 韩文 - 催化学报, 2014 - chxb.cn Most volatile organic compounds(VOCs)emitted from industrial and transportation activities are harmful to the environment and human health. Catalytic oxidation is one of the most effective ways to remove VOCs, and transition metal oxides are the most commonly.

1012. Л.К.Лок, Н. Три, Х.Т. Куонг, Х.С. Тоанг, Ю.А.Агафонов, Н.А.Гайдай, Н.В. Некеасов, А.Л.Лapidус, Кинетика полного окисления пара-ксилена и его микстур с оксидом углерода на поверхности катализаторов с медным носителем, КИНЕТИКА И КАТАЛИЗ, 55, No 5, pp 642-650,(2014), ISSN: 0023-1584

(2468) Polymer brushes in cylindrical pores: Simulation versus scaling theory, Dimitrov, D. I.; Milchev, A.; Binder, K., JOURNAL OF CHEMICAL PHYSICS Volume: 125 Issue: 3 Article Number: 034905 Published: JUL 21 2006

1013. Tunable nanoporous membranes with chemically-tailored pore walls from triblock polymer templates, Mulvenna, Ryan A.; Weidman, Jacob L.; Jing, Benxin; JOURNAL OF MEMBRANE SCIENCE Volume: 470 Pages: 246-256 Published: NOV 15 2014

1014. Self-Organized Polyelectrolyte End-Grafted Layers Under Nano confinement, M. Tagliacruzchi, X. Li, M. Olvera De La Cruz, I. Szleifer, ACS NANO Volume: 8 Issue: 10 Pages: 9998-10008 Published: OCT 2014

1015. Towards optimization of electrical network and mechanical property of polymer nanocomposites with grafted nanoparticles, Y. Feng, N. Ning, Z. Wei, L. Zhang, M. Tian, H. Zou, J. Mi, POLYMER Volume: 55 Issue: 14 Pages: 3178-3185 Published: JUN 19 2014

(2469) S. Ivanov, V. Tsakova, V. M. Mirsky, Conductometric transducing in electrocatalytical sensors: Detection of ascorbic acid", Electrochemistry Communications, 8, 2006, 643-646.

1016. J.F. Cabrita, V.C. Ferreira, O.C. Monteiro, Titanate nanofibers sensitized with nanocrystalline Bi₂S₃ as new electrocatalytic materials for ascorbic acid sensor applications, Electrochim. Acta, 135, 2014, 121-127.

(2470) N. Jordanov, R. Zellner, Investigations of the hygroscopic properties of ammonium sulfate and mixed ammonium sulfate and glutaric acid micro droplets by means of optical levitation and Raman spectroscopy, Phys. Chem. Chem. Phys. 8, 23, 2006, 2759-2764.

1017. H.-J. Eom, D. Gupta, X. Li, H.-J. Jung, H. Kim, C.-U. Ro, Influence of collecting substrates on the characterization of hygroscopic properties of inorganic aerosol particles, Anal. Chem. 86, 5, 2014, 2648-2656.

(2472) D. Kashchiev, "Dependence of the growth rate of nanowires on the nanowire diameter", Cryst. Growth Design 6(2006)1154

1018. A.A. Evtukh, A. Druzhinin, I. Ostrovskii, A. Kizjak, A. Grigoriev, O. Steblova, S. Nichkalo, "Formation of Ordered Si Nanowires Arrays on Si Substrate", Adv. Mater. Res. 854(2014)83.

1019. V.G. Dubrovskii, Y.Y. Hervieu, "DIFFUSION-INDUCED GROWTH OF NANOWIRES: GENERALIZED BOUNDARY CONDITIONS AND SELF-CONSISTENT KINETIC EQUATION", J. Cryst. Growth 401(2014)431.

1020. N.V. Sibirev, M.V. Nazarenko, D.A. Zeze, V.G. Dubrovskii, "Modeling the nucleation statistics in vapor-liquid-solid nanowires", J. Cryst. Growth 401(2014)51.

1021. N.V. Lyanguzov, "СИНТЕЗ НАНОСТРУКТУР НА ОСНОВЕ ОКСИДА ЦИНКА И ИХ ФИЗИЧЕСКИЕ СВОЙСТВА", Ph.D. Thesis, Yuzhnyi Federalnyi Universitet, Rostov-na-Donu, 2014.

1022. P. Periwal, N. Sibirev, G. Patriarche, B. Salem, F. Bassani, V.G. Dubrovskii, T. Baron, "Composition-dependent interfacial abruptness in Au-catalyzed SiGe-Si-SiGe nanowire heterostructures", Nano Lett. 14(2014)5140.

1023. A.L. Beaudry, "Flux Directed Branched Nanowire Growth via VLS-GLAD", Ph.D. Thesis, University of Alberta, Edmonton, 2014.

1024. V.G. Dubrovskii, "Nucleation Theory and Growth of Nanostructures", Springer, Berlin, 2014.

(2474) D. Kashchiev, "Forms and applications of the nucleation theorem" J. Chem. Phys. 125(2006)014502

1025. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.

(2473)D.Kashchiev, "Analysis of experimental data for the nucleation rate of water droplets", *J.Chem.Phys.* 125(2006)044505

1026. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.

1027. M.Ghosh, "Nucleation of charged droplets; an ion-atmosphere model", *RSC Advances* 4(2014)45275.

1028. E.S.Thomson, X.Kong, P.Papagiannakopoulos, J.B.C.Patterson, "Deposition mode ice nucleation reexamined at temperatures below 200 K", *Atmos. Chem. Phys. Discuss.* 14 (2014) 23711.

(2477)L. Komsiyiska, V. Tsakova,Ascorbic acid oxidation at non-modified and copper-modified polyaniline and poly-ortho-methoxyaniline coated electrodes. *Electroanalysis*,18 , 2006, 807-813.

1029. U. Rana, N.D. Paul, S. Mondal, C. Chakraborty, S. Malik, Water soluble polyaniline coated electrode: A simple and nimble electrochemical approach for ascorbic acid detection, *Synthetic Metals*, 192 , 2014, 43-49.

1030. D. Pankratov, P. Falkman, Z. Blum, S. Shleev, A hybrid electric power device for simultaneous generation and storage of electric energy, *Energy and Environmental Science*, 7, 2014, 989-993.

(2480)F. Kurniawan, V. Tsakova, V. M. Mirsky, Gold nanoparticles in nonenzymatic electrochemical detection of sugars, *Electroanalysis*, 18 , 2006, 1937-1942.

1031. Y. Li, J. Fu, R. Chen, M. Huang, B. Gao, K. Huo, L. Wang, P.K. Chu, Core-shell TiC/C nanofiber arrays decorated with copper nanoparticles for high performance non-enzymatic glucose sensing, *Sens. Actuators B*, 192 , 2014, 474-479.

1032. K. Tian, M. Prestgard, A. Tiwari, A review of recent advances in nonenzymatic glucose sensors(Review), *Materials Science and Engineering C*, 41, 2014, 100-118.

1033. H. Shu, L. Cao, G. Chang, H. He, Y. Zhang, Y. He, Direct electrodeposition of gold nanostructures onto glassy carbon electrodes for non-enzymatic detection of glucose, *Electrochimica Acta*, 132,2014, 524-532.

1034. Z. Jin, P. Li, B. Zheng, H. Yuan, D. Xiao, CuO-Ag₂O nanoparticles grown on a AgCuZn alloy substrate in situ for use as a highly sensitive non-enzymatic glucose sensor, *Analytical Methods*, 6 , 2014, 2215-2220.

1035. Y. Zhao, J. Chu, S.-H. Li, W.-W. Li, G. Liu, Y.-C. Tian, H.-Q. Yu, Non-Enzymatic Electrochemical Detection of Glucose with a Gold Nanowire Array Electrode, *Electroanalysis*, 26, 2014, 656-663.

1036. M.F. Hossain, J.Y. Park, Amperometric glucose biosensor based on Pt-Pd nanoparticles supported by reduced graphene oxide and integrated with glucose oxidase, *Electroanalysis*, 26, 2014, 940-951.

1037. Y. Xing, G. Gao, G. Zhu, J. Gao, Z. Ge, H. Yang, A nonenzymatic electrochemical glucose sensor based on Ni(OH)₂-CNT-PVDF composite and its application in measuring serum glucose, *J. Electrochem. Soc.*, 161 , 2014, B106-B110.

1038. K.C. Lin, L.H. Huang, S.M. Chen, Electrochemical synthesis of mixed-valence manganese/copper hybrid composite using graphene oxide and multi-walled carbon nanotubes for nonenzymatic glucose sensor, *J. Electroanal. Chem.*, 735, 2014, 36-42.

1039. C. Chai, J. Lee, S.-W. Oh, P.Takhistov, Impedimetric characterization of adsorption of listeria monocytogenes on the surface of an aluminum-based immunosensor *J. Food Sci.* 79 , 2014, E2266-E2271.

1040. H. Yang, G. Gao, F. Teng, W. Liu, S. Chen, Z. Ge, Nickel Hydroxide Nanoflowers for a Nonenzymatic Electrochemical Glucose Sensor, *J. Electrochem. Soc.* 161, 2014, B216-B219.

(2468)M. Ilieva, V. Tsakova, W. Erfurth, Electrochemical formation of bi-metal (copper-palladium) electrocatalyst supported on poly-3,4-ethylenedioxythiophene” *Electrochim. Acta*, 52, 2006, 816-824.

1041. V.-T. Gruia, A. Ispas, M. Wilke, I. Efimov, A. Bund, Application of acoustic impedance method to monitoring of sensors: Metal deposition on viscoelastic polymer substrate, *Electrochimica Acta*, 118, 2014, 88-91.

1042. S.N. Eliseeva, E.G. Tolstopyatova, T.A. Babkova, V.V. Kondratiev, Nanocomposite electrode materials based on poly(3,4-ethylenedioxythiophene) with incorporated gold and palladium: Preparation and morphology study *Russian J. General Chem.* 84, 2014, 1793-1798.

(2487) Multiblock copolymers at selective liquid-liquid interfaces: Toward a block size chromatography, Corsi, Andrea; A. Milchev, V.G. Rostiashvili, R. Vijayaraghavan, *JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS* Volume: 44 Issue: 18 Pages: 2572-2588 Published: SEP 15 2006

1043. Evidence of random copolymer adsorption at fluctuating selective interfaces from Monte-Carlo simulation studies, Gazuz, Igor; Sommer, Jens-Uwe, *SOFT MATTER* Volume: 10 Issue: 37 Pages: 7247-7255 Published: 2014

1044. Adsorption of PNIPAm-PEO20-PPO70-PEO20PNIPAm pentablock terpolymer on gold surfaces: effects of concentration, temperature, block length, and surface properties
Chen, Tongquan; Lu, Yanping; Chen, Tianyou; *PHYSICAL CHEMISTRY CHEMICAL PHYSICS* Volume: 16 Issue: 12 Pages: 5536-5544 Published: 2014

(2488)A. Milchev, T. Zapryanova, Nucleation and growth of copper under combined charge transfer and diffusion limitations. Part I *Electrochimica Acta*, 51 (2006) 2926, ISSN:00134686

1045. Durante, C., Perazzolo, V., Perini, L., Favaro, M., Granozzi, G., Gennaro, A., Electrochemical activation of carbon-halogen bonds: Electrocatalysis at silver/copper nanoparticles, *Applied Catalysis B: Environmental* 158-159(2014)286-295, ISSN: 09263373

1046. Blanco, S., Vargas, R., Mostany, J., Borrás, C., Scharifker, B.R., Modeling the growth of nanowire arrays in porous membrane templates *J. Electrochem. Soc.*, 161(8)(2014)E3341-E3347, ISSN: 00134651

1047. Kakaei, K., Gharibi, H., Palladium nanoparticle catalysts synthesis on graphene in sodium dodecyl sulfate for oxygen reduction reaction, *Energy* 65(1)(2014)166-171, ISSN: 03605442

1048. Gupta, R., Guin, S.K., Aggarwal, S.K., Electrocristallization of palladium(Pd) nanoparticles on platinum (Pt) electrode and its application for electro-oxidation of formic acid and methanol, *Electrochimica Acta*, 116(2014)314-320

1049. Gu, S., Wang, X.P., Wei, Y.Z., Fang, B.Z. Mechanism for nucleation and growth of electrochemical deposition of palladium(II) on a platinum electrode in hydrochloric acid solution, *Science China Chemistry*, 57(5)(2014)755-762

1050. Chen, A., Hwang, J.-Y., Peng, Z., Ma, Y., Liu, X., Chen, X. Effects of iron and manganese ions on potentiostatic current transients for copper electrodeposition, (Conference Paper) TMS Annual Meeting Characterization of Minerals, Metals, and Materials 2014, Pages 315-324.

1051. S. Blanco, R. Vargas, J. Mostany, C. Borrás, B. R. Scharifker, Modeling the Growth of Nanowire Arrays in Porous Membrane Templates, *J. Electrochem. Society*, 161(8)(2014)E3341-E3347

(2489)A.Milchev and T.Zapryanova, Nucleation and growth of copper under combined charge transfer and diffusion limitations. PartII, Electrochimica Acta 51 (2006) 4916, ISSN:00134686

1052. Electrochemical activation of carbon-halogen bonds: Electrocatalysis at silver/copper nanoparticles, Durante, C., Perazzolo, V., Perini, L., Favaro, M., Granozzi, G., Gennaro, A. Applied Catalysis B: Environmental 158-159(2014)286-295, ISSN: 09263373
1053. Modeling the growth of nanowire arrays in porous membrane templates, Blanco, S., Vargas, R., Mostany, J., Borrás, C., Scharifker, B.R. J Electrochem Soc, 161(8)(2014)E3341-E3347, ISSN: 00134651
1054. Tuning the initial electronucleation mechanism of palladium on glassy carbon electrode Alemu,T.,Assresahegn,B.D.,Soreta,T.R.,PortugaliaeElectrochimicaActa,32(1)(2014)21-33
1055. Berkes, B.B., Huang, M., Henry, J.B., Kokoschka, M, Bandarenka, A.S. Characterisation of complex electrode processes using simultaneous impedance spectroscopy and electrochemical nanogravimetric measurements, Chem Plus Chem, 79 (3) (2014) 348-358
1056. Gu, S., Wang, X.P., Wei, Y.Z. , Fang, B.Z. Mechanism for nucleation and growth of electrochemical deposition of palladium(II)on a platinum electrode in hydrochloric acid solution, ScienceChinaChemistry, 57(5)(2014)755-762
1057. S. Blanco, R. Vargas, J. Mostany, C. Borrás, B. R. Scharifker, Modeling the Growth of NanowireArraysinPorousMembraneTemplates,J.Electrochem.Society,161(8)(2014)E3341-E3347

(2492)V. Milkova, Ts. Radeva, Counterion release from adsorbed highly charged polyelectrolyte: An electrooptical study, Journal of Colloid and Interface Science 298(2006)550-555.

1058. Карина Митарова, “Моделни нано-контейнери за пренос на аскорбинова киселина”, Дипломна работа за ОС “магистър”, СУ „Св. Климент Охридски” 2014.

(2494)P. Mollov, K. Mihalev, M. Buleva, I. Petkanchin, Cloud stability of apple juices in relation to their particle charge properties studied by electro-optics, Food Res. Intern. 39(2006)519-524.

1059. A.K. Schultz, G.E. Anthon, S.R. Dungan, D.M. Barrett, Effect of pectin methylesterase on carrot(*daucus carota*)juice cloud stability, J. Agricul. Food Chem., 62, 2014, 1111-1118.
1060. A.K. Schultz, D.M. Barrett, S.R. Dungan, Effect of acidification on carrot(*Daucus carota*)juice cloud stability, J.Agric.Food Chem. 62, 2014, 11528-11535.

(2500)A.V. Nguyen, L. Alexandrova, L. Grigorov, G.J. Jameson, Dewetting kinetics on silicasubstrates: Three phase contact expansion measurements for aqueousdodecylammonium chloride films, Minerals Engineering 19(2006)651-658.

1061. T. Vachová, Z. Brabcová, P. Basařová, Description of the three-phase contact line expansion, EPJ Web Conf. 8th International Conference on Experimental Fluid Mechanics, EFM 2013EDP Sciences, Kutna Hora, 67, 2014,article № 02121.
1062. S.I. Karakashev, K.W. Stöckelhuber, R. Tsekov, C.M. Phan, G. Heinrich, Tribology of thin wetting films between bubble and moving solid surface, Adv Colloid Interface Sci 210, 2014, 39-46.

(2501)D Nikolova, E Stoyanova, D Stoychev, P Stefanov, Ts Marinova, Anodic behaviour of stainless steel covered with an electrochemically deposited Ce₂O₃-CeO₂ film, Surface and Coatings Technology, Volume 201, Issues 3-4, 5 October 2006, Pages 1559-1567, ISSN: 0257-

1063. Yang Yang, Yumeng Yang, Taiwen Fu, Juan Zhu, Jinpeng Fan, Zhao Zhang, Jianqing Zhang, Influence of ethanol content in the precursor solution on anodic electrodeposited CeO₂ thin films, Thin Solid Films, Volume 556, 1 April 2014, Pages 128-136, ISSN: 0040-6090.

1064. Prof. Angela Dibenedetto, Dr. Antonella Angelini¹, Luigi di Bitonto¹, Prof. Elvira De Giglio, Dr. Stefania Cometa and Prof. Michele Aresta, Cerium-Based Binary and Ternary Oxides in the Transesterification of Dimethylcarbonate with Phenol, *Chem Sus Chem*, Volume 7, Issue 4, pages 1155–1161, April 2014, DOI: 10.1002/cssc.201301025

(2503)A. Penkova, W. Pan, F. Hodjaoglu, P. Vekilov, Nucleation of protein crystals under the influence of solution shear flow, *Annals of the New York Academy of Sciences* 1077(2006)214-231.

1065. C. Forsyth, Influence of controlled fluid shear on nucleation rates in glycine aqueous solutions, *Crystal Growth & Design* 2014, DOI: 10.1021/cg5008878.

(2505)Petrova, M., Dobрева, Ek., Noncheva, Z., “Activation of copper surfaces in chemical deposition of composite nickel coatings”, *Transactions of the Institute of Metal Finishing*, 84(2)(2006)99-104

1066. Walsh, F.C., Ponce De Leon, C., A review of the electrodeposition of metal matrix composite coatings by inclusion of particles in a metal layer: An established and diversifying technology, *Transactions of the Institute of Metal Finishing*, 92(2)(2014), 83-98

(2506)Ts. Radeva, K. Kamburova, I. Petkanchin, Formation of polyelectrolyte multilayers from polysaccharides at low ionic strength, *J. Colloid Interface Sci.* 298(2006)59-65.

1067. J. Huang, I. Zhou, Peach gum polysaccharide polyelectrolyte: Preparation, properties and application in layer-by-layer self-assembly, *Carbohydr. Polymer* 113, 2014, 373-379.

1068. M.H.M.A. Shibraen, C. Wang, H. Yagoub, Q. Yuan, S. Yang, J. Xu, Interfacial complexation behavior of anionic and cationic cellulose derivates, *RSC Advances* 4, 2014, 55459-55465.

(2507)Ts. Radeva, K. Kamburova, Electro-optics of colloid-polyelectrolyte complexes: Counterion release from adsorbed macromolecules, *J. Colloid Interface Sci.* 293(2006)290-295.

1069. A.M. Zhivkov, R.P. Hristov, Electrical polarizability dispersion of alumina particles with adsorbed carboxymethyl cellulose, *RSC Advances* 4, 2014, 2715-2728.

(2510)J.W.P. Schmelzer, E.D. Zanutto, I. Avramov, V.M. Fokin, *J. Non-Cryst. Sol.* 352(2006) 434-443 “stress Development And Relaxation During Crystal Growth In Glass-Forming Liquids” ISSN 0022-3093

1070. Serrano, IG; Hernando, A; Marin,, Low temperature magnetic behaviour of glass-covered magnetic microwires with gradient nanocrystalline microstructure P, *JOURNAL OF APPLIED PHYSICS*, 115(3):10.1063/1.4862540 JAN 21 2014

1071. Umakant B Chanshetti, Pravin S Bhale, *Research Journal of Chemical Sciences* 01/2014 4(Vol. 4(1)):78-83

1072. Herlach, D. M.(2014). Non-Equilibrium Solidification of Undercooled Metallic Melts. *Metals*, 4(2), 196-234.

(2513)E. Stoyanova, D Nikolova, D Stoychev, P Stefanov, Ts Marinova, Effect of Al and Ce oxide layers electrodeposited on OC4004 stainless steel on its corrosion characteristics in acid media, 2006, *Corrosion science*, 48, 12, pp. 4037-4052, ISSN: 0010-938X

1073. M. Mehdipour, R. Naderi, B.P. Markhali, Electrochemical study of effect of the concentration ofazole derivatives on corrosion behavior of stainless steel in H₂SO₄, ***Progress in Organic Coatings***, Volume 77, Issue 11, November 2014, Pages 1761–1767, ISSN: 0300-9440

(2515)S.B. Valdez, R.K. Zlatev, W.M. Schorr, G.N. Rosas, Ts. Dobrev, M. Money, I. Krastev, Rapid method for corrosion protection determination of VCI films, *Anti-Corrosion Methods and Materials*, 53(6)(2006)362-366.

1074. L.C. Da Silva, E.A. Pereira, A.A. Cardoso, Development of a method for sampling and determination of corrosion inhibitors in modified atmospheres, *Measurement: Journal of the International Measurement Confederation*, 60(2014)276–282.

(2532)D.A. Koleva, J. Hu, K. van Breugel, N. Boshkov, J.H.W. de Wit, “Conventional and pulse cathodic protection of reinforced concrete: Electrochemical approach and microstructural investigations”, *ECS Transactions*,1 4(2006)287 - 298.

1075. Y. Abbas, D.B. De Graaf, W. Olthuis, A. van den Berg, “No more conventional reference electrode. Transition time for determining chloride ion concentration”, *Analytica Chimica Acta*, 821, 2014, 81 – 88.

1076. B. Diaz, X.R. Novoa, B. Puga, V. Vivier, “Macro and micro aspects of the transport of chlorides in cementitious membranes”, *Electrochimica Acta*, 124, 1 2014, 61-68.

(2554)E. Mileva, P. Tchoukov, Surfactant nanostructures in foam films in colloid stability the role of surface forces, Th. Tadros(Ed.), volume 1, WILEY-VCH Darmstadt,(2007), 187-206.

1077. M. Kostoglou, J. Lioumbas, T. Karapantsios, A population balance treatment of bubble size evolution in free draining foams, *Colloids Surf. A*, 2014, DOI:10.1016/j.colsurfa.2014.11.036.

1078. Стефан Стоянов, “Взаимодействие на липополизахариди и четириантенни олигоглицини във водна среда”, Дипломна работа за ОС “магистър”, СУ „Св. Климент Охридски” 2014.

(2555)G.Staikov, A.Milchev, The impact of electrocrystallization on nanotechnology, Electrocrystallization in Nanotechnology, G. Staikov, Ed.Wiley-VCH,Weinheim(2007),ISBN978-3-527-31515-4.

1079. Guo, L., Searson, P.C., Anisotropic island growth: A new approach to thin film electrocrystallization, *Langmuir* 24(19)(2008)10557-10559

1080. Alemu, T., Assresahegn, B.D., Soreta, T.R. Tuning the initial electronucleation mechanism of palladium, on glassy carbon electrode, *Portugaliae Electrochimica Acta*, 32(1)(2014)21-33

1081. Li, L., Jahanian, P., Mao, G., Electrocrystallization of tetrathiafulvalene charge-transfer salt nanorods on gold nanoparticle seeds, *J.Phys.Chem., C* 118(32)(2014)18771-18782

(2561)I.Avramov, Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B, February 2007, 48(1), 61–63 Viscosity Activation Energy

1082. Sarode, AL; Obara, S; Tanno, FK; Sandhu, H; Iyer, R; Shah, N, Stability assessment of hypromellose acetate succinate(HPMCAS)NF for application in hot melt extrusion(HMECARBOHYDRATE POLYMERS, 101 146-153; 10.1016/j.carbpol.2013.09.017 JAN 30 2014

1083. Clima, S; Sankaran, K; Chen, YY; Fantini, A; Celano, U; Belmonte, A;Zhang, LQ; Goux, L; Govoreanu, B; Degraeve, R; Wouters, DJ; Jurczak, M; Vandervorst, W; De Gendt, S; Pourtois, G, RRAMs based on anionic and cationic switching: A short overview PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, 8(6):501-511; SI 10.1002/pssr.201409054 JUN 2014

1084. Umakant B Chanshetti, Pravin S Bhale, *Research Journal of Chemical Sciences* 01/2014 4(Vol. 4(1)):78-83, *POLYMER*, 55(18):4651-4657; 10.1016/j.polymer.2014.07.029 SEP 2 2014

1085. E. Meechoowas, U. Pantulap, T. Jitwatcharakomal. Investigation of the properties of soda-lime silicate glass doped with TiO₂. 979, 128-131. 2014.

(2563)I.Avramov, Journal of Volcanology and Geothermal Research Volume 160, Issues 1-2 , 1 February 2007, Pages 165-174

1086. X. Duan, Model for calculating the viscosity of natural iron-bearing silicate melts over a wide range of temperatures, pressures, oxygen fugacities, and compositions. 99(2014)2378-2388.

(2564)I.Avramov, "kinetics Of Growth Of Nanowhiskers(nanowires And Nanotubes)" Nanoscale Res. Lett(2007)2, 235-239 ISSN: 1556-276x

1087. Yan, CL; Rosei, F, Hollow micro/nanostructured materials prepared by ion exchange synthesis and their potential applications NEW JOURNAL OF CHEMISTRY, 38(5):1883-1904; 10.1039/c3nj00888f 2014

1088. Dubrovskii, V. G.(2014). Nucleation Theory and Growth of Nanostructures. Springer Berlin Heidelberg.

(2570)R. Cohen, D. Exerowa, Surface forces and properties of foam films from rhamnolipid biosurfactants, Advances in Colloid and Interface Science 134-135(2007)24-34.

1089. R.B. Lovaglio, V.L. Da Silva, T. De Lucca Capelini, M.N. Eberlin, R. Hausmann, M. Henkel, J. Contiero, Rhamnolipids production by a pseudomonas eruginosa LBI mutant: Solutions and homologs characterization, Tenside Surfactants Deterg 51, 2014, 397-405.

(2574)Capillary rise in nanopores: Molecular dynamics evidence for the Lucas-Washburn equation, Dimitrov, D. I.; Milchev, A.; Binder, K., PHYSICAL REVIEW LETTERS Volume: 99 Issue: 5 Article Number: 054501 Published: AUG 3 2007

A. Filling of charged cylindrical capillaries, Das, Siddhartha; Chanda, Sourayon; Eijkel, J. C. T.; PHYSICAL REVIEW E Volume: 90 Issue: 4 Article Number: 043011 Published: OCT 16 2014

1090. Spontaneous Inertial Imbibition in Porous Media Using a Fractal Representation of Pore Wall Rugosity, Liu, Guodong; Zhang, Meiyun; Ridgway, Cathy, TRANSPORT IN POROUS MEDIA Volume: 104 Issue: 1 Pages: 231-251 Published: AUG 2014

1091. Switchable imbibition in nanoporous gold, Xue, Yahui; Markmann, Juergen; Duan, Huiling; NATURE COMMUNICATIONS Volume: 5 Article Number: 4237 Published: JUL 2014

1092. Capillary filling under electro-osmotic effects in the presence of electromagneto-hydrodynamic effects, Desai, Nikhil; Ghosh, Uddipta; Chakraborty, Suman PHYSICAL REVIEW E Volume: 89 Issue: 6 Article Number: 063017 Published: JUN 26 2014

1093. Capillary filling dynamics of viscoelastic fluids, Bandopadhyay, Aditya; Ghosh, Uddipta; Chakraborty, Suman, PHYSICAL REVIEW E Volume: 89 Issue: 5 Article Number: 053024 Published: MAY 29 2014

1094. Treelike networks accelerating capillary flow, Shou, Dahua; Ye, Lin; Fan, Jintu PHYSICAL REVIEW E Volume: 89 Issue: 5 Article Number: 053007 Published: MAY, 12 2014

1095. Pore wall rugosity: The role of extended wetting contact line length during spontaneous liquid imbibition in porous media, Liu, Guodong; Zhang, Meiyun; Ridgway, Cathy; COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS Volume: 443 Pages: 286-295 Published: FEB 20 2014

1096. Filling Dynamics of Closed End Nanocapillaries, Schneider, Daniel; Valiullin, Rustem; Monson, Peter A., LANGMUIR Volume: 30 Issue: 5 Pages: 1290-1294 Published: FEB 11 2014 , Optimal Design of Porous Structures for the Fastest Liquid Absorption, Shou, Dahua; Ye, Lin; Fan, Jintu; Fu, Kunkun, LANGMUIR Volume: 30 Issue: 1 Pages: 149-155 Published: JAN 14 2014

1097. A many-body dissipative particle dynamics study of fluid-fluid spontaneous capillary displacement, Chen, Chen; Lu, Kangjie; Li, Xuefeng; Dong, Jinfeng; Lu, Juntao; Zhuang,

Lin, RSC ADVANCES Volume: 4 Issue: 13 Pages: 6545-6555 Published: 2014 Melt Infiltration: an Emerging Technique for the Preparation of Novel Functional Nanostructured Materials, de Jongh, Petra E.; Eggenhuisen, Tamara M., ADVANCED MATERIALS Volume: 25 Issue: 46 Pages: 6672-6690 Published: DEC 2013

1098. Capillary rise dynamics of aqueous glycerol solutions in glass capillaries: A critical examination of the Washburn equation, O'Loughlin, M.; Wilk, K.; Priest, C.; Ralston, J.; Popescu, M. N., JOURNAL OF COLLOID AND INTERFACE SCIENCE Volume: 411 Pages: 257-264 Published: DEC 1 2013

1099. Structural and electronic properties of SiC nanotubes filled with Cu nanowires: A first-principles study, Shi, Yun-Lei; Zhang, Jian-Min; Xu, Ke-Wei, PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES Volume: 54 Pages: 319-325 Published: DEC 2013

(2575) Polymer brushes in solvents of variable quality: Molecular dynamics simulations using explicit solvent, Dimitrov, D. I.; Milchev, A.; Binder, K., J. Chem. Phys 127, Issue: 8, Article Number: 084905 Published: AUG 28 2007

1100. Single-polymer dynamics under constraints: scaling theory and computer experiment Wernersson, Erik; Linse, Per, Langmuir 30, Issue: 37, 11117-11121, 2014 http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=17&SID=P1wFzndUjjiamw9btUF&page=1&doc=2&cacheurlFromRightClick=no

1101. Polymer brushes in explicit poor solvents studied using a new variant of the bond fluctuation model, Jentsch, Christoph; Sommer, Jens-Uwe, J. Chem. Phys 141, Issue: 10, 104908, 2014

1102. Interfacial slip on rough, patterned and soft surfaces: A review of experiments and simulations, Lee, Thomas; Charrault, Eric; Neto, Chiara, Advances in colloid and interface science 210, 21-38, 2014

1103. Interfacial slip on rough, patterned and soft surfaces: A review of experiments and simulations, Mehboudi, Aryan; Saidi, Mohammad Said, Microfluidics and Nanofluidics 17 Issue: 1, 181-198, 2014

(2576) A.G. Dobrikova, M.I. Dimitrov, S.G. Taneva, I.B. Petkanchin, Protein-coated β -ferric hydrous oxide particles. An electrokinetic and electrooptic study, Colloids Surf. B: Biointerfaces 56(2007)114-120.

1104. R.A. Barco, K.J. Edwards, Interactions of proteins with biogenic iron oxyhydroxides and a new culturing technique to increase biomass yields of neutrophilic, iron-oxidizing bacteria, Frontiers in Microbiology, 5, 2014, article № 259.

(2577) Ts. Dobrovolska, V.D. Jovic, B.M. Jovic and I. Krastev, Phase identification in electrodeposited Ag-In alloys by ALSV technique, J. Electroanalytical Chemistry, Volume 611, Issues 1-2, (15 December 2007), Pages 232-240.

1105. D.A. Lopez-Sauri, L. Veleva, G. Pérez, Analysis of nonlinear galvanostatic oscillations in Ag-Cd alloys electrodeposition, Int.J.Electrochem.Sci. 9(2014)1102-1116.

1106. V.D. Jovic, U.C. Lacnjevac and B.M. Jovic, Chapter: Electrodeposition and Characterization of Alloys and Composite Materials, in, Modern Aspects of Electrochemistry 57, Electrodeposition and surface Finishing, Fundamentals and Applications, ed. by Stojan Djokic, Springer, 2014.

(2578) Driven polymer translocation through a nanopore: A manifestation of anomalous diffusion Dubbeldam, J. L. A.; Milchev, A.; Rostiashvili, V. G.; . EPL 79 Issue: 1 Article Number: 18002 Published: JUL 2007

1107. Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study, Polson, James M.; Dunn, Taylor R., Journal of chemical physics Volume: 140 Issue: 18 Article Number: 184904 Published: MAY 14 2014

1108. Polymer translocation into a confined space: Influence of the chain stiffness and the shape of the confinement, Zhang, Kehong; Luo, Kaifu, *Journal of chemical physics* Volume: 140 Issue: 9 Article Number: 094902 Published: MAR 7 2014

(2579) Polymer translocation through a nanopore: A showcase of anomalous diffusion, Dubbeldam, J. L. A.; Milchev, A.; Rostiashvili, V. G.; Vilgis, Thomas A., *Physical Review E* Volume: 76 Issue: 1 Article Number: 010801 Part: 1 Published: JUL 2007

1109. Non-existence of Global Solutions to a System of Fractional Diffusion Equations Kirane, M.; Ahmad, B.; Alsaedi, A.; Al-Yami, M, *Acta applicandae mathematicae* Volume: 133 Issue: 1 Pages: 235-248 Published: OCT 2014

1110. The operational matrix formulation of the Jacobi tau approximation for space fractional diffusion equation, Doha, Eid H.; Bhrawy, Ali H.; Baleanu, Dumitru; Ezz-Eldien, Samer S, *Advances in difference equations*, Article Number: 231 Published: AUG 20 2014

1111. Nonlinear fractional differential equations of Sobolev type A. Alsaedi, M.S. Alhothuali, B. Ahmad, S. Kerbal, M. Kirane, *Mathematical methods in the applied sciences*, Volume: 37 Issue: 13 Pages: 2009-2016 Published: JUL 2014

1112. Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study, Polson, James M.; Dunn, Taylor R., *Journal of chemical physics* Volume: 140 Issue: 18 Article Number: 184904 Published: MAY 14 2014

1113. Finite-size scaling in unbiased translocation dynamics Brandani, Giovanni; Baldovin, Fulvio; Orlandini, Enzo; Stella, Attilio L, *Journal of statistical mechanics-theory and experiment* Article Number: P05019 Published: MAY 2014

1114. Speeding up the first-passage for subdiffusion by introducing a finite potential barrier Palyulin, Vladimir V.; Metzler, Ralf, *Journal of physics a-mathematical and theoretical* Volume: 47 Issue: 3 Article Number: 032002 Published: JAN 24 2014

(2581) Ergul S., Akyildiz M., Karamanov A., "Ceramic Material from Basaltic Tuffs", *Industrial Ceramics*, 37, 2, 2007, 75-80, ISSN: 1121-7588

1115. Aramide, F. O., Alaneme, K. K., Olubambi, P. A., & Borode, J. O. (2014). Characterization of some clay deposits in South West Nigeria. *Leonardo Electronic Journal of Practices and Technologies*, (25), 46-57.

(2583) J. Georgieva, S. Armyanov, E. Valova, I. Poulis, S. Sotiropoulos, Enhanced Photocatalytic Activity of Electrosynthesised Tungsten Trioxide-Titanium Dioxide Bi-Layer Coatings under Ultraviolet and Visible Light Illumination *Electrochemistry Communications*, 9(2007)365-370

1116. S. Hosseini, E. Eftekhari, S.M. Soltani, F.E. Babadi, L.J. Minggu, M.H.S. Ismail, Synthesis, Characterization and Performance Evaluation of Three-layered Photoanodes by Introducing a Blend of WO₃ and Fe₂O₃ for Dye Degradation, *Appl. Surf. Sci.*, 289, 2014, 53-61.

1117. S. Liu, J. Huang, L. Cao, J. Li, H. Ouyang, X. Tao, C. Liu, One-pot synthesis of TiO₂-WO₃ composite nanocrystallites with improved photocatalytic properties under natural sunlight irradiation, *Mater. Sci. Semicond. Processing*, 25, 2014, 106-111.

1118. M. Wang, Q. Zeng, B. Zhao, C. Chen, G. Liu, D. He, Controlled Synthesis of Anatase/Tungstite Heterogeneous Nanomaterials Induced by Oxalic Acid, *Catalysis Communications*, 48, 2014, 60-64.

1119. X.L. Chen, W.Liu, J.C. Zhang, Q.S. Pan, D.S. Huang, L.X. Dong, Hydrothermal-based synthesis of CdS/ZnO Quantum dots, *Advanced Materials Research*, 875-877, 2014, 362-365.

1120. M. Wondwossen, Y. OP, K. Tesfahun, Photo-catalytic Removal of Methyl Orange Dye by Polyaniline Modified ZnO using Visible Radiation, *Sci. Technol. Arts Res. J.*, 3, 2014, 93-102.

1121. M. Santamaria, G. Conigliaro, F. Di Franco, F. Di Quarto, Photoelectrochemical Evidence of Cu₂O/TiO₂ Nanotubes Hetero-Junctions formation and their Physicochemical Characterization, *Electrochimica Acta*, 144, 2014, 315-323.

1122. S. Ostachavičiute, E.Valatka, Preparation and characterization of WO₃/TiO₂ composite catalysts for the photoreduction of chromium(VI)in aqueous solutions, *Chemija*, 25, 2014, 145-153.
1123. W. Melaku, O. P. Yadav, T. Kebede, Science, Photo-catalytic Removal of Methyl Orange Dye by Polyaniline Modified ZnO using Visible Radiation, *Technology and Arts Research Journal*, 3(2)2014, 93-102.

(2584)J. Georgieva, S. Armyanov, Electroless Deposition and Some properties of Ni-Cu-P and Ni-Sn-P Coatings, Journal of Solid State Electrochemistry, 11(2007)869-876

1124. G. Zhou, C. Y. Chen, Z. Lin, L. Li, Z. Tao, W. He, C. P. Wong, Effects of Mn²⁺ on the electrical resistance of electrolessly plated Ni-P thin-film and its application as embedded resistor,*J Materials Science: in Electronics*, 25,2014, 1341-1347.
1125. D.-H. Niu, R.-S. Shen, Y.Liu, S.-H.Song, Yu-S.Zhang, G.-T. Du, Electroless Plating of Ni-Cu-P ternary alloy on Fiber Bragg Grating Sensor, <http://wenku.baidu.com/view/e8c9151cb7360b4c2e3f6445.html>
1126. B. Hui, J. Li, L. Wang, Electromagnetic shielding wood-based composite from electroless plating corrosion-resistant Ni-Cu-P coatings on Fraxinus mandshurica veneer, *Wood Sci Technol*, 48,2014, 961-979.
1127. S. Roy, P. Sahoo,Parametric optimization of corrosion and wear of electroless Ni-P-Cu coating using grey relational coefficient coupled with weighted principal component analysis, *Internat. J. Mechan. & Materials*, 9(1)2014,Article:10, 15pages.
1128. Ruffini, L. A. Hamilton, D. Buechel-rimmel, J. M. Laplante, A. Schaffer, F. K. Lowes, Electroless coated disks for high temperature applications and methods of making the same, United States Patent 8828482(2014)
1129. H. Naor, D. Avnir, Electroless methods for molecular doping of gold thin films, *J. Mater. Chem. C*, 2, 2014, 7768-7775.
1130. Fan Hong Far, Yan Hua, Gu Tan, Wang Jun,Wu Hua,Plating solution compositions on high Sn The content of Ni-Sn-P Effect of coating and plating rate, *China surface finishing engineering*, 4, 2014, 012.

(2585)G. Gotchev, T. Kolarov, B. Levecke, Th. Tadros, K. Khristov, D. Exerowa, Interactionforces in thin liquid films stabilized by hydrophobically modified inulin polymeric surfactant. 3. Influence of electrolyte type on emulsion films, Langmuir 23(2007)6091-6094.

1131. D. Meshulam, J. Slavuter, U. Lesmes, Behavior of Emulsions Stabilized by a Hydrophobically Modified Inulin Under Bio-Relevant Conditions of the Human Gastro-Intestine, *Food Biophys*. 9, 2014, 416-423.

(2587)I. Gutzow, J.W.P. Schmelzer, B. Petroff, The phenomenology of metastable liquids and the glass transition, J. Eng. Thermophys. 16, 4, 2007, 205-223.

1132. Lion, B. Dippel, C. Liebl, Thermomechanical material modelling based on a hybrid free energy density depending on pressure, isochoric deformation and temperature, *Int. J. Solids Struct.* 51, 3-4, 2014, 729-739.

(2590)A. Hrussanova, I. Krastev, G. Beck, A. Zielonka, Properties of electrodeposited Ag-Sn alloys, J. Appl. Electrochem, 40,(2010), 2145-2151.

1133. F. Chen, X. Zhao, H. Liu, J. Qu, Enhanced destruction of Cu(CN)₃²⁻ by H₂O₂ under alkaline conditions in the presence of EDTA/pyrophosphate, *Chem.Eng.J.* 253 (2014) 478-485
1134. S.Z. Chu-Kure, H. Yashiro, Corrosion Resistance of Multilayered Sn/Ag₃Sn Films Electroplated on Cu Alloys for Highly Reliable Automotive Connectors, *JES*, 161,(10), 2014, C441-C449.

(2591)K.Iland, J.Wölk, R. Strey, D.Kashchiev, "Argon nucleation in a cryogenic nucleation pulse chamber", J.Chem.Phys. 127(2007)154506

1135. O.Wilhelmsen, D.Bedeaux, S.Kjelstrup, D.Reguera, "Thermodynamic stability of nanosized multicomponent bubbles/droplets: The square gradient theory and the capillary approach", J.Chem.Phys. 140(2014)024704.

1136. K.K.Tanaka, J.Diemand, R.Angelil, H.Tanaka, "Free energy of cluster formation and a new scaling relation for the nucleation rate", J.Chem.Phys. 140(2014)194310.

1137. O.Wilhelmsen, D.Bedeaux, S.Kjelstrup, D.Reguera, "Communication: Superstabilization of fluids in nanocontainers", J.Chem.Phys. 141(2014)071103.

1138. F.Schmitz, "Computer simulation methods to study interfacial tensions: from the Ising model to colloidal crystals", Ph.D.Thesis, Johannes-Gutenberg Universitat Mainz, Mainz, 2014.

(2594)K. Kamburova, Ts. Radeva, Electro-optics of colloid-polyelectrolyte complexes: Counterion condensation on free and adsorbed sodium carboxymethylcellulose, J. Colloid Interface Sci. 313(2007)398-404.

1139. A.M. Zhivkov, R.P. Hristov, Electrical polarizability dispersion of alumina particles with adsorbed carboxymethyl cellulose, RSC Advances 4, 2014, 2715-2728.

(2595)-Karamanov A., Aloisi M., Pelino M., "Vitrification of Copper Flotation Waste", J. Hazardous Mat., 140, 2007, 333-339, ISSN: 0304-3894

1140. Yang, Z., Lin, Q., Lu, S., He, Y., Liao, G., & Ke, Y.(2014). Effect of CaO/SiO₂ ratio on the preparation and crystallization of glass-ceramics from copper slag. Ceramics International, 40(5), 7297-7305.

1141. Bień, J., Morzyk, B., Wystalska, K., Celary, P., & Sobik-Szołtysek, J.(2014). The Treatment of Incineration Wastes with a Carbonate Waste Fraction from the Zinc-Lead Industry. Archives of Environmental Protection, 40(1), 61-69.

(2596)D.Kashchiev, "Interrelation between cluster formation time, cluster growth probability and nucleation rate", J.Chem.Phys. 127(2007)064505

1142. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", Adv.Chem.Phys. 155(2014)97.

(2597)D.Kashchiev, V.Bostanov, "Nucleation in electrochemical growth of the Ag(100)crystal face: determining the nucleus size via the nucleation theorem", J.Chem.Phys. 127(2007)244709.

1143. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", Adv.Chem.Phys. 155(2014)97.

(..)J.H. ter Horst, D.Kashchiev, "Rate of two-dimensional nucleation: verifying classical and atomistic theories by Monte Carlo simulations", J.Phys.Chem. B 112(2008)8614.

1144. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", Adv.Chem.Phys. 155(2014)97.

(2599)L. Komsijska, V. Tsakova, G. Staikov, Electrochemical formation and properties of thin polyaniline films on Au(111) and p-Si(111), Appl. Phys. A, 87(2007)405-409.

1145. J.C. Hidalgo-Acosta, V. Climent, J.M. Feliu, Adsorption and first stages of polymerization of aniline on platinum single crystal electrodes, Synthetic Metals 196, 2014, 61-67

(2605)M. Mitov, R. Rashkov, N. Atanassov, A. Zielonka, Effects of nickel foam dimensionson catalytic activity of supported Co-Mn-B nanocomposites for hydrogen generation from stabilized borohydridesolutions, JournalofMaterialsScience, 42(10)(2007)3367-3372

1146. Weng, F. Xu, Z. Wu, Z. Li, Hydrogen generation from LiBH₄ solution catalyzed by multiwalled carbon nanotubes supported Co-B nanocatalysts for a portable micro proton

- exchange membrane fuel cell application, *International Journal of Hydrogen Energy* 39, 27, 2014, 14942-14948.
1147. M. H. Loghmani, A. F. Shojali, Hydrogen production through hydrolysis of sodium borohydride: Oleic acid stabilized Co–La–Zr–B nanoparticle as a novel catalyst, *Energy* 68, 2014, 152-159.
1148. F. Baydarogly, E. Özdemir, A. Hasimoglu, An effective synthesis route for improving the catalytic activity of carbon-supported Co–B catalyst for hydrogen generation through hydrolysis of NaBH₄, *International Journal of Hydrogen Energy* 39, 3, 2014, 1516-1522.
1149. S.S. Muir, Z. Chen, B.J. Wood, G.Q. Lu, X. Yao, New electroless plating method for preparation of highly active Co–B catalysts for NaBH₄ hydrolysis, *International Journal of Hydrogen Energy* 39,(1), 2014, 414-425.
1150. U. B. Demirci, P. Miele, Reaction mechanisms of the hydrolysis of sodium borohydride: A discussion focusing on cobalt-based catalysts, *Comptes Rendus Chimie* 17,(7-8), 2014, 707-716.
1151. M. Rakap, Hydrolysis of sodium borohydride and ammonia borane for hydrogen generation using highly efficient poly(N-vinyl-2-pyrrolidone)-stabilized Ru-Pd nanoparticles as catalyst, *International Journal of Green Energy*.
1152. N. Patel, A. Miotelo, Progress in Co–B related catalyst for hydrogen production by hydrolysis of boron-hydrides: A review and the perspectives to substitute noble metals, *International Journal of Hydrogen Energy* 40,(3), 2014, 1429-1464.
1153. A. Chinnappan, A.H. Jadhav, J.M.C. Pujan, Fabrication of ionic liquid/polymer nanoscale networks by electrospinning and chemical cross-linking and their application in hydrogen generation from the hydrolysis of NaBH₄, *Energy* 79, 2014, 482-488.
- (2606) F. Mostowfi, K. Khristov, J. Czarnecki, J. Masliyah, S. Bhattacharjee, Electric field mediated breakdown of thin liquid films separating microscopic emulsion droplets, *Applied Physics Letters* 90(2007)184102.**
1154. H. Nazari-poor, C.R. Koch, S. Bhattacharjee, Electrical perturbations of ultrathin bilayers: Role of ionic conductive layer, *Langmuir* 30, 2014, 14734-14744.
1155. D. Sinton, Energy: The microfluidic frontier, *Lab Chip Miniaturisation Chem. Biol.* 14, 2014, 3127-3134.
- (2610) M. Nedyalkov, L. Alexandrova, D. Platikanov, B. Levecke, T. Tadros, Wetting films on a hydrophilic silica surface obtained from aqueous solutions of hydrophobically modified inulin polymeric surfactant, *Colloid and Polymer Science* 285(2007)1713-1717**
1156. H.A. Zambrano, J.H. Walther, R.L. Jaffe, Molecular dynamics simulations of water on a hydrophilic silica surface at high air pressures, *J Mol Liq* 198, 2014, 107-113.
- (2612) Structure, dynamics, and phase transitions of tethered membranes: A Monte Carlo simulation study, Popova, Hristina; Milchev, Andrey, *Journal of Chemical Physics* Volume: 127 Issue: 19 Article Number: 194903 Published: NOV 21 2007**
1157. Brownian dynamics simulations of nanosheet solutions under shear, Xu, Yueyi; Green, Micah J., *Journal of Chemical Physics* Volume: 141 Issue: 2 Article Number: 024905 Published: JUL 2014
- (2617) Ranquelov, B., Stoyanov, S., Evaporation and growth of crystals: Propagation of step density (2007) *Phys. Rev. B*, 76, p. 035443.**
1158. Krzyzewski, F., Załuska-Kotur, M.A., Coexistence of bunching and meandering instability in simulated growth of 4H-SiC(0001) surface, *J. of Applied Physics* 115 (21) (2014) 213517
- (2620) S.P. Stoylov, Electro-optical investigations of the dipole moments of nanoparticles, *Colloids Surf. B: Biointerfaces* 56(2007)50-58.**

1159. M. Pochylski, P. Calandra, F. Aliotta, R.C. Ponterio, Electrically induced birefringence in nanoparticle dispersions for electrorheological applications, *J. Phys. D: Applied Phys.* 47, 2014, article № 465301(9 pp).
- (2622)C. Stubenrauch, R. Cohen, D. Exerowa, A pH-study of n-dodecyl-β-D-maltoside foamfilms, *Langmuir* 23(2007)1684-1693.**
1160. J. Angarska, D. Ivanova, A. Gerasimova, K. Balashev, Competitive adsorption of bovine serum albumin and n-dodecyl-β-d-maltoside in foam films, *Colloids Surf.A Physicochem.Eng.Asp.* 460, 2014, 286-298.
- (2626)M.Uzunova, M.Kostadinov, J.Georgieva, C.Dushkin, D.Todorovsky, N.Philippidis, I.Poulios, S.Sotiropoulos, Photoelectrochemical characterisation and photocatalytic activity of composite La₂O₃-TiO₂ coatings on stainless steel, *Applied Catalysis B: Environmental* 73(2007)23-33.**
1161. C.Pablos, J.Marugán, R.Van Grieken, C.Adán, A.Riquelme, J.Palma, Correlation between photoelectrochemical behaviour and photoelectrocatalytic activity and scaling-up of P25-TiO₂ electrodes, *Electrochim Acta* 130, 2014, 261-270.
1162. W.Weil, C.Yu, Q.Zhao, X.Qian, G.Li, Y.Wan, Synergy effect in photodegradation of contaminants from water using ordered mesoporous carbon-based titania catalyst, *Appl. Catal. B: Env.*, 146, 2014, 151-161.
1163. L.Cai, Collagen fiber as a template for mesoporous TiO₂ and La_x/TiO₂ nano-fibers: synthesis, characterization and photocatalytic activities, *Gongneng Cailiao/J Functional Materials*, 45, 2014, 01015-01019+01024.
- (2627)T. Valkova, I. Krastev, A. Zielonka, Influence of D(+)-Glucose on the electrochemical deposition of Ag-Bi alloy from cyanide electrolyte, *Bulg. Chem. Commun.* 42, 4,(2010), 317-322.**
1164. M. Aliofkhaezai, N. Ali, *Fabrication and Properties of Micro- and Nanostructured Coatings Using Electrochemical Depositions in Comprehensive Materials Processing*, Elsevier Ltd, 2014, pp. 119-156.
- (2628)T.Zapryanova, A.Hrussanova, A.Milchev, Nucleation and growth of copper on glassy carbon: Studies in extended overpotential interval, *J.Electroanal.Chem.*, 600(2007)311-317. ISSN: 00220728;**
1165. Durante, C., Perazzolo, V., Perini, L., Favaro, M., Granozzi, G., Gennaro, A.
Electrochemical activation of carbon-halogen bonds: Electrocatalysis at silver/copper nanoparticles, *Applied Catalysis B: Environmental* 158-159(2014)286-295, ISSN: 09263373
- (2629)A.M. Zhivkov, Change of purple membranes geometry induced by protein adsorption, *Colloids and Surfaces B: Biointerfaces* 56(2007)170-173.**
1166. Y. Yokoyama, K. Yamada, Y. Higashi, S. Ozaki, H. Wang, N. Koito, N. Watanabe, M. Sonoyama, S. Mitaku, Dependence of purple membrane bump curvature on pH and ionic strength analyzed using atomic force microscopy combined with solvent exchange, *J Phys Chem B* 118, 2014, 9322-9328.
1167. V. Doltchinkova, P.R. Angelova, Phytohemagglutinin and light-induced charge density effects on plasma membrane of *Plectonema boryanum*, *Journal of New Developments in Chemistry* 1 2014, 11-19.
- (2661)V.S. Alahverdijeva, K. Khristov, D. Exerowa, R. Miller, 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(2008)132-138.**
1168. J. Angarska, D. Ivanova, A. Gerasimova, K. Balashev, Competitive adsorption of bovine serum albumin and n-dodecyl-β-d-maltoside in foam films, *Colloids Surf.A Physicochem.Eng.Asp.* 460, 2014, 286-298.

1169. A.Kezwon, K. Wojciechowski, Interaction of Quillaja bark saponins with food-relevant proteins, *Adv Colloid Interface Sci* 209, 2014, 185-195.

(2662). I. Avramov, Diffusion coefficient of foreign particles in glassforming melts, Journal of Non-Crystalline Solids 354(2008)1537-1540

1170. Clima, S; Sankaran, K; Chen, YY; Fantini, A; Celano, U; Belmonte, A; Zhang, LQ; Goux, L; Govoreanu, B; Degraeve, R; Wouters, DJ; Jurczak, M; Vandervorst, W; De Gendt, S; Pourtois, G., RRAMs based on anionic and cationic switching: A short overview, *Physica status solidi-rapid research letters*, 8(6):501-511; SI 10.1002/pssr.201409054 JUN 2014

(2664)I.Avramov, C. Russel, N. Kolkovska and I. Georgiev, J. Phys.: Condens. Matter 20(2008)335203 Crystallization kinetics and network rigidity

1171. B. Deb, A. Ghosh *EPL(Europhysics Letters)*07/2011; 95(2):26002.

1172. J. Mauro, C. Philip, D. Vaughn, and M. Pambianchi, Glass science in the United States: Current status and future directions *International Journal of Applied Glass Science*, 1–14(2014)DOI:10.1111/ijag.12058

(2666)I Avramov, M Michailov, Specific heat of nanocrystals, Journal of Physics: Condensed Matter 20, 295224,(2008)

1173. Shin, Donghyun, and Debjyoti Banerjee. "Specific heat of nanofluids synthesized by dispersing alumina nanoparticles in alkali salt eutectic." *International Journal of Heat and Mass Transfer* 74(2014): 210-214.

1174. Li, Y., Luo, J.-S., Yi, Y., Zhu, H.-F., Gan, Z.-H., Ji, X.-C., Lei, H.-L.

“Study on low temperature specific heat capacity of aluminum nanocrystalline”, *Journal of Synthetic Crystals*, Volume 43, Issue 3, March 2014, Pages 676-681

1175. Seo, Joohyun, and Donghyun Shin. "Enhancement of specific heat of ternary nitrate(LiNO₃-NaNO₃-KNO₃)salt by doping with SiO₂ nanoparticles for solar thermal energy storage." *Micro & Nano Letters* 9.11(2014): 817-820.

1176. Shin, D., H. Tiznobaik, and D. Banerjee. "Specific heat mechanism of molten salt nanofluids." *Applied Physics Letters* 104.12(2014): 121914.

(2667)I.Avramov, T. Höche And G. Henderson, The Role Of Stress On Crystal Growth J. Non Cryst. Sol. 354(2008)4681-4684 ISSN 0022-309

1177. Bocker, C; Kouli, M; Volksch, G; Russel, C, New insights into the crystallization of cordierite from a stoichiometric glass by in situ high-temperature *Journal of materials science*, 49(7):2795-2801; 10.1007/s10853-013-7984-3 APR 2014

1178. Bloch, L; Kauffmann, Y; Pokroy, Size effect on the short range order and the crystallization of nanosized amorphous alumina. *B, Crystal Growth & Design*, 14(8):3983-3989; 10.1021/cg500580c AUG 2014

(2668)- Barbieri L., Karamanov A., Corradi A., Lancellotti I., Pelino M., Rincon J., “Microstructural, Chemical and Thermal Study of Glasses Containing Oxide-Based Wastes”, J. Non – Crystalline Solids 354, 2008, 521-528, ISSN: 0022-3093

1179. Sobiecka, Elzbieta, and Lukasz Szymanski. "Thermal Plasma Vitrification Process As The Effective Technology For Fly Ash And Chromium Rich Sewage Sludge Utilization." , *Journal of Chemical Technology and Biotechnology*, Volume 89, Issue 7, July 2014, Pages 1115-1117

1180. Tasneem, K. M.(2014). Beneficial utilization of municipal solid waste incineration ashes as sustainable road construction materials(Doctoral dissertation, University of Central Florida Orlando, Florida).

1181. Zhang, Z.K., Li, A.M., Liang, X.Y., Effects of basicity(CaO/SiO₂)on the behavior of heavy metals from sludge incineration ash by vitrification treatment, *Advanced Materials Research*, Volume 878, 2014, Pages 284-291

(2669) Adsorption kinetics of a single polymer on a solid plane, Bhattacharya, S.; Milchev, A.; V.G. Rostiashvili, T.A. Vilgis., Physical Review E Volume: 77 Issue: 6 Article Number: 061603 Part: 1 Published: JUN 2008

1182. Dynamics of a polymer adsorbed to an attractive homogeneous flat surface, Yang, Qing-Hui; Qian, Chang-Ji; Li, Hong; ., Physical Chemistry Chemical Physics Volume: 16 Issue: 42 Pages: 23292-23300 Published: NOV 14 2014

(2671) Tz. Boiadjieva, D. Kovacheva, L. Lyutov, M. Monev, Deposition of Zn-Cr alloy coatings from sulfate electrolyte: effect of polypropylene glycol 620 and glycine and combination thereof, Journal of Applied Electrochemistry, 38(2008)1435-1443.

1183. E. Riedl, Electrochemical processes for design and modification of interfaces and surfaces of electronic devices, PhD, University of Regensburg, 2014.

(2673) Evidence of thin-film precursors formation in hydrokinetic and atomistic simulations of nano-channel capillary filling, S. Chibbaro, I. Biferale, F. Diotallevi, S. Succi, K. Binder, D. Dimitrov, A. Milchev, S. , Girardo, D. Pisignan, EPL Volume: 84 Issue: 4 Article Number: 44003 Published: NOV 2008

1184. A critical review of the pseudopotential multiphase lattice Boltzmann model: Methods and applications, Chen, Li; Kang, Qinjun; Mu, Yutong; Y.L. He, W.Q. Tao, International Journal of Heat and Mass Transfer Volume: 76 Pages: 210-236 Published: SEP 2014

1185. Switchable imbibition in nanoporous gold, Xue, Yahui; Markmann, Juergen; Duan, Huiling; , J. Weissmuller, P. Huber, Nature Communications Volume: 5 Article Number: 4237 Published: JUL 2014

(2674) Molecular dynamics simulations of capillary rise experiments in nanotubes coated with polymer brushes, Dimitrov, D. I.; Milchev, A.; Binder, K., Langmuir Volume: 24 Issue: 4 Pages: 1232-1239 Published: FEB 19 2008

1186. Controlling microtube permeability via grafted polymers and solvent quality, Suo, Tongchuan; Whitmore, Mark D., Journal of chemical physics Volume: 140 Issue: 11 Article Number: 114902 Published: MAR 21 2014

1187. Meniscus formation in a capillary and the role of contact line friction, T. Andruk, D. Monaenkova, B. Rubin, W.K. Lee, K.G. Kornev, Soft Matter Volume: 10 Issue: 4 Pages: 609-615 Published: 2014

1188. M. Sedghi, M. Piri, L. Goual, Molecular dynamics of wetting layer formation and forced water invasion in angular nanopores with mixed wettability. 141(2014).

(2676) Local Viscosity in the Vicinity of a Wall Coated by Polymer Brush from Green-Kubo Relations, Dimitrov, Dimitar I.; Milchev, Andrey; Binder, Kurt, Macromolecular Theory and Simulations Volume: 17 Issue: 6 Pages: 313-318 Published: AUG 25 2008

1189. Local viscosity change in water near a solid-liquid interface and its extraction by means of molecular rotational diffusion - A molecular dynamics study: S. Nakaoka, D. Surbly, Y. Yamaguchi, K. Kuroda, T. Nakajima, H. Fujimura, Chemical Physics Letters Volume: 591 Pages: 306-311 Published: JAN 20 2014
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=21&SID=U143CMho4EgSwuvVNpt&page=1&doc=2

1190. Mixed brush of chemically and physically adsorbed polymers under shear: Inverse transport of the physisorbed species, Pastorino, C.; Mueller, M., Journal of Chemical Physics Volume: 140 Issue: 1 Article Number: 014901 Published: JAN 7 2014

(2679) T.S.M. Dobrev, M.C. Monev, I.V.N. Krastev, R.P. Zlatev, Electrochemical methods for evaluation of the protective ability of electroplated coatings and conversion films, Bulg Chem Comm, 40(3)(2008)198-203.

1191. B. Valdez, S. Kiyota, M. Stoytcheva, R. Zlatev, J.M. Bastidas, Cerium-based conversion coatings to improve the corrosion resistance of aluminium alloy 6061-T6, *Corrosion Science*, 87(2014)141-149.

(2682)Ts. Dobrovolska, G. Beck, I. Krastev and A. Zielonka, Phase Composition of Electrodeposited Silver-Indium Alloys, Journal of Solid State Electrochem., 12, 11,(2008), 1461-1467.

1192. S. Sarkar, L. Balisetty, P.P. Shanbogh, S.C. Peter, Effect of ordered and disordered phases of unsupported Ag₃In nanoparticles on the catalytic reduction of p-nitrophenol, *J.Catal.* 318(2014)143-150.

1193. N. Arora, B.R. Jagirdar, K.J. Klabunde, Digestive ripening facilitated atomic diffusion at nanosize regime: Case of AuIn₂ and Ag₃In intermetallic nanoparticles, *J Alloys Compd* 610(2014)35-44.

1194. D.W. Yin, Z. Liu, X.Y. Yang, X.Y. Zhang, W.D. Xiang, Preparation and optical properties of AgIn alloy quantum dots doped glass, *Wuji Cailiao Xuebao, Journal of Inorganic Materials*, 29, 10, 2014, 1034-1038, DOI: 10.15541/jim2014001529(2014)1034-1038.

(2683)M.Eichelbaum, K.Rademann, A.Hoell, D.M.Tatchev, W. Weigel, R.Stöber, G.Pacchioni, Photoluminescence of atomic gold and silver particles in soda-lime silicate glasses, Nanotechnology, 19(2008)Article number 135701

1195. P. Gruene, B. Butschke, J. T. Lyon, D. M. Rayner, A. Fielicke, Far-IR Spectra of Small Neutral Gold Clusters in the Gas Phase. *Zeitschrift für Physikalische Chemie*, 228, 2014, 337-350.

1196. H. B. Stanley, D. Banerjee, L. van Breemen, J. Ciston, C. H. Liebscher, V. Martis, D. H. Merino, A. Longo, P. Pattison, G. W. M. Peters, G. Portale, S. Sen, W. Bras X-ray irradiation induced reduction and nanoclustering of lead in borosilicate glass. *CrystEngComm*, 16, 2014, 9331-9339.

1197. T.Cesca, B.Kalinic, C. Maurizio, C.Scian, G.Battaglin, P.Mazzoldi, G.Mattei, Near-infrared room temperature luminescence of few-atom Au aggregates in silica: a path for the energy-transfer to Er³⁺ ions. *Nanoscale*, 6, 2014, 1716-1724.

1198. S., Reyna, C. B. de Araújo, Spatial phase modulation due to quintic and septic nonlinearities in metal colloids. *Optics express*, 22, 2014, 22456-22469.

1199. R.Udayabhaskar, B.Karthikeyan, M. S. Ollakkan, R. V. Mangalaraja, M. L. Baesso, Enhanced fluorescence and optical power limiting in Ag-nanocomposite glasses. *Chemical Physics Letters*, 593, 2014, 1-6.

1200. G. Cremer, X-ray irradiation-induced formation of luminescent silver clusters in nanoporous matrices. *Chemical Communications*, 50, 2014, 1350-1352.

1201. M.V. Shestakov, X.M. Chen, V. Kaydashev, W. Baeckelant, V.K. Tikhomirov, J. Vanacken, J. Hofkens, V.V. Moshchalkov, Oxyfluoride glass(SiO₂-PbF₂)co-doped with Ag nanoclusters and Tm³⁺ ions for UV-driven, Hg-free, white light generation with a tuneable tint, *Optical Materials Express*, 4, 2014, 1227-1235.

1202. E. Culea, I. Vida-Simiti, G. Borodi, E. N. Culea, R. Stefan, P. Pascuta, Structural and spectroscopic effects of Ag-Eu³⁺ codoping of TeO₂-PbO glass ceramics. *Journal of Materials Science*, 49, 2014, 4620-4628.

1203. S. S.Khutsishvili, T. I. Vakul'skaya, N. P. Kuznetsova, T. G. Ermakova, A. S. Pozdnyakov, G. F. Prozorova, Formation of Stable Paramagnetic Nanocomposites Containing Zero-Valence Silver and Copper in a Polymeric Matrix. *The Journal of Physical Chemistry C*, 118, 2014, 19338-19344.

1204. V. D. Dubrovin, A. I. Ignatiev, N. V. Nikonorov, A. I. Sidorov, , T. A. Shakhverdov D. S. Agafonova, Luminescence of silver molecular clusters in photo-thermo-refractive glasses. *Optical Materials*, 36, 2014, 753-759.

1205. D. A. Klyukin, A. I. Sidorov, A. I. Ignatiev, N. V. Nikonorov, Luminescence quenching and recovering in photo-thermo-refractive silver-ion doped glasses. *Optical Materials* 38, 2014, 233-237.

1206. Demichev, A. I. Ignat'ev, N. V. Nikonorov, E. M. Sgibnev, A. I. Sidorov, T. A. Khrushcheva, T. A. Shakhverdov, Specific features of the luminescence of silicate glasses with silver introduced by ion exchange. *Optics and Spectroscopy*, 116, 2014, 587-592.
- (2689)I. Gutzow, J.W.P. Schmelzer, B. Petroff, Phenomenological theories of glass transition: Classical approaches, new solutions and perspectives, J. Non-Cryst. Solids 354, 2-9, 2008, 311-324.**
1207. J.C. Mauro, M.M. Smedskjaer, Statistical mechanics of glass, *J. Non-Cryst. Solids* 396-397, 2014, 41-53.

(2693)R Iankov, S Cherneva, D Stoychev, Investigation of material properties of thin copper films through finite element modelling of microindentation test, Applied Surface Science, 2008, 254, 17, pp. 5460-5469

1208. Yu Liu, Yunqing Tang, Ping Yang, Xiaoming Yuan & Juan Guo, Experimental and numerical approach on interfacial properties of W/Al bilayer films for electronic devices manufacturing, *Composite Interfaces*, Volume 21, Issue 6, 2014, pp. 507-520, ISSN: 1568-5543.
- (2697)K. Kamburova, V. Milkova, I. Petkanchin, Ts. Radeva, Effect of pectin charge density on formation of multilayer films with chitosan, Biomacromolecules, 9(2008)1242-1247.**
1209. K. Junka, O. Sundman, J. Salmi, M. Osterberg, J. Laine, Multilayers of cellulose derivatives and chitosan on nanofibrillated cellulose, *Carbohydr. Polymers* 108, 2014, 34-40.
1210. N. Valderrama, W. Albarracin, Physical, chemical and enzymatic modifications and their effects on the properties of chitosan films, *Revista Materia* 19, 2014, 301-312.

(2698)- Karamanov A., Ergul S., Akyildiz M., Pelino M., "Sinter-Crystallization of a Glass Obtained from Basaltic Tuffs", J. Non-Crystalline Solids, 354, 2008, 290-295, ISSN: 0022-3093

1211. Lipatov, Y. V., Arkhangelsky, I. V., Dunaev, A. V., Gutnikov, S. I., Manylov, M. S., & Lazoryak, B. I. Crystallization of zirconia doped basalt fibers. *Thermochimica Acta.*, 575, pp. 238-243(2014)
- (2699)Karamanov A. Pelino M., "Induced Crystallization Porosity and Properties of Sintered Diopside and Wollastonite Glass-Ceramics", J. European Cer. Soc., 28, 2008, 555-562, ISSN: 0955-2219**
1212. Martín, M.I., López, F.A., Alguacil, F.J., Romero, M., Development of crystalline phases in sintered glass-ceramics from residual E-glass fibres, *Ceramics International* 2014, 40(2), pp. 2769-2776
1213. Liu, Z., Zong, Y., Ma, H., Dai, W., & Cang, D.(2014). Influence of Al₂O₃ content on microstructure and properties of different binary basicity slag glass ceramics. *Advances in Applied Ceramics*, 113(7), 394-403.
1214. Eren, E., Bayer Öztürk, Z., & Kurama, S.(2014). Image Analyses for Porosity Characterization of Porcelain Tiles with Different Thickness. *AKÜ FEMÜBİD* 14(2014)OZ5723(147-151)
1215. Xu, Y., Zhang, Y. Z., Hou, L. Y., & Lu, X.(2014). Preparation of CaO-Al₂O₃-SiO₂ system glass from molten blast furnace slag. *International Journal of Minerals, Metallurgy, and Materials*, 21(2), 169-174.
1216. Wang, W., Dong, H., Wang, B., Zhao, Y., Wang, K., Sintering mechanism of ceramics prepared from BOF slag, *Huagong Xuebao/CIESC Journal*, Volume 65, Issue 9, 1 September 2014, Pages 3732-3737

(2700)D.Kashchiev, "Toward a better description of the nucleation rate of crystals and crystalline monolayers", J.Chem.Phys. 129(2008)164701

1217. D.Gebauer, M.Kellermeier, J.D.Gale, L.Bergstrom, H.Colfen, "Pre-nucleation clusters as solute precursors in crystallisation", *Chem.Soc.Rev.* 43(2014)2348.
1218. M.J.W.Povey, "Crystal nucleation in food colloids", *Food Hydrocolloids* 42(Part1)(2014)118.

1219. V.G.Dubrovskii, "Nucleation Theory and Growth of Nanostructures", Springer, Berlin, 2014.

(2703)Z. Lalchev, R. Todorov, D. Exerowa, Thin liquid films as a model to study surfactant layers on the alveolar surface, Current Opinion in Colloid and Interface Science 13 (2008)183-193.

1220. J. Angarska, D. Ivanova, A. Gerasimova, K. Balashev, Competitive adsorption of bovine serum albumin and n-dodecyl- β -D-maltoside in foam films, Colloids Surf.A Physicochem.Eng.Asp. 460, 2014, 286-298.

(2705)A. Milchev, Electrocrystallization: nucleation and growth of nano-clusters on solid surfaces, Russian Journal of Electrochemistry, 44(6)(2008)619-645, ISSN: 10231935;

1221. Andri Bezzola, Benjamin B. Bales, Richard C. Alkire, Linda R. Petzold, An exact and efficient firstpassage time algorithm for reaction-diffusion processes on a 2D-lattice, Journal of Computational Physics, 256(2014)183-197

1222. G. Korotcenkov, Technologies Suitable for Gas Sensor Fabrication in Handbook of Gas Sensor Materials, Integrated Analytical Systems 2014, pp 393-433, Springer, Chemie

1223. C. Santoro, M. Guilizzoni, J.P. Correia Baea, U. Pasaogulari, A.Casalegno, B.Li, S.Babanova, K.Artyushkova, P.Atanassov, The effect of carbon electrode surface properties on bacteria attachment and start up time of microbial fuel cells, Carbon 67(2014)128, ISSN: 00086223

1224. J.Velmurugan, J.Noël, M.V Mirkin, Nucleation and growth of mercury on Pt nanoelectrodes at different overpotentials, Chemical Science, 5(1)(2014)189-194

1225. Rezaei, M., Tabaian, S.H., Haghshenas, D.F. Electrochemical nucleation and growth of Pd/PdCo core-shell nanoparticles with enhanced activity and durability as fuel cell catalyst,

1226. J. Materials Chem.A, 2(13)(2014)4588-4597

(2708)Excess free energy of nanoparticles in a polymer brush, Milchev, A.; Dirnitrova, D. I.; Binder, K., Polymer Volume: 49 Issue: 17 Pages: 3611-3618 Published: AUG 11 2008

1227. Molecule Motion at Polymer Brush Interfaces from Single-Molecule Experimental Perspectives, Wang, Shengqin; Jing, Benxin; Zhu, Yingxi, Journal of polymer science part b-polymer physics Volume: 52 Issue: 2 Pages: 85-103 Published: JAN 15 2014

1228. Theory and simulation studies of effective interactions, phase behavior and morphology in polymer nanocomposites, Ganesan, Venkat; Jayaraman, Arthi, Soft Matter Volume: 10 Issue: 1 Pages: 13-38 Published: 2014

(2710)E. Mileva, D. Exerowa, Amphiphilic nanostructures in foam films, Current Opinion in Colloid and Interface Science 13(2008)120-127.

1229. Стефан Стоянов, "Взаимодействие на липополизахариди и четириантенни олигоглицини във водна среда", Дипломна работа за ОС "магистър", СУ „Св. Климент Охридски" 2014.

(2711)V. Milkova, K. Kamburova, I. Petkanchin, T. Radeva, Complexation of ferric oxide particles with pectins of different charge density, Langmuir 24(2008)9495-9499.

1230. J. Lv, X. Hao, J. Yang, Y. Feng, M. Behl, A. Lendlein, Self-assembly of polyethylenimine-modified biodegradable complex micelles as gene transfer vector for proliferation of endothelial cells, Macromol.Chem.Phys. 215, 2014, 2463-2472.

(2717)M. Nedyalkov, L. Alexandrova, D. Platikanov, B. Leveck, T.F. Tadros, Wetting properties of aqueous solutions of hydrophobically modified inulin polymeric surfactant, Colloid and Polymer Science 286(2008)713-719.

1231. D. Meshulam, J. Slavuter, U. Lesmes, Behavior of Emulsions Stabilized by a Hydrophobically Modified Inulin Under Bio-Relevant Conditions of the Human Gastro-Intestine, Food Biophys. 9, 2014, 416-423.

(2718)D. Nickolova, E. Stoyanova, D. Stoychev, I Avramova, P. Stefanov, Protective effect in sulfuric acid media of alumina and ceria oxide layers electrodeposited on stainless steel, Surface and Coatings Technology, 2008, 202, 9, pp. 1876-1888, ISSN: 0257-8972

1232. Yang Yang, Yumeng Yang, Taiwan Fu, Juan Zhu, Jinpeng Fan, Zhao Zhang, Jianqing Zhang, Influence of ethanol content in the precursor solution on anodic electrodeposited

CeO₂ thin films, **Thin Solid Films**, Volume 556, 1 April 2014, Pages 128–136, ISSN: 0040-6090.

1233. Leandro Duarte Bisnha, Proteção contra a corrosão das ligas de alumínio AA7075-T6 e AA8006-F utilizando bicamadas do tipo polianilina e camadas de cerato (Corrosion protection of AA7075-T6 and AA8006-F aluminum alloys using bi-layers based on polyaniline and cerium conversion layers), **Doctoral Thesis**, Physical Chemistry Dpt. - Instituto de Química de São Carlos, São Carlos, Publishing Date 2014-08-25, Brazil
- (2719) 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(2008)727-733, ISSN: 0378-7753.
1234. Yanguang Li and Hongjie Dai, Recent advances in zinc–air batteries, *Chem. Soc. Rev.*, 2014, 43, pp. 5257-5275, ISSN 0306-0012(print).
1235. Dr. Justus Masa, Dr. Wei Xia, Dr. Ilya Sinev, Anqi Zhao, Dr. Zhenyu Sun, Stefanie Grützke, Philipp Weide, Prof. Dr. Martin Muhler and Prof. Dr. Wolfgang Schuhmann, Mn_xO_y/NC and Co_xO_y/NC Nanoparticles Embedded in a Nitrogen-Doped Carbon Matrix for High-Performance Bifunctional Oxygen Electrodes, *Angewandte Chemie International Edition*, Volume 53, Issue 32, pages 8508–8512, August 4, 2014, , ISSN: 1521-3773.
1236. Moni Prabu , Kriangsak Ketpang and Sangaraju Shanmugam, Hierarchical nanostructured NiCo₂O₄ as an efficient bifunctional non-precious metal catalyst for rechargeable zinc–air batteries, *Nanoscale*, 2014, 6, pp. 3173-3181, ISSN: 2040-3372
1237. N. Sasikala, K. Ramya, K.S. Dhathathreyan, Bifunctional electrocatalyst for oxygen/air electrodes, *Energy Conversion and Management*, Volume 77, January 2014, Pages 545–549, ISSN: 0196-8904
1238. Dr. Justus Masa, Dr. Wei Xia, Dr. Ilya Sinev, Anqi Zhao, Dr. Zhenyu Sun, Stefanie Grützke, Philipp Weide, Prof. Dr. Martin Muhler and Prof. Dr. Wolfgang Schuhmann, Eine Stickstoff-dotierte Kohlenstoffmatrix mit eingeschlossenen Mn_xO_y/NC- und Co_xO_y/NC-Nanopartikeln für leistungsfähige bifunktionale Sauerstoffelektroden, *Angewandte Chemie*, Volume 126, Issue 32, pages 8648–8652, August 4, 2014, ISSN: 1521-3757.
1239. Dennis Wittmaier, Simon Aisenbrey, Norbert Wagner, K. Andreas Friedrich, Bifunctional, Carbon-Free Nickel/Cobalt-Oxide Cathodes for Lithium-Air Batteries with an Aqueous Alkaline Electrolyte, *Electrochimica Acta*, Volume 149, 10 December 2014, Pages 355–363, ISSN: 0013-4686
1240. Dennis Wittmaier, Norbert Wagner, K. Andreas Friedrich, Hatem M.A. Amin, Helmut Baltrusch, Modified carbon-free silver electrodes for the use as cathodes in lithium–air batteries with an aqueous alkaline electrolyte, *Journal of Power Sources*, Volume 265, 1 November 2014, Pages 299–308, ISSN: 0378-7753
1241. P. Hosseini Benhangi, A. Alfantazi, E. Gyenge, Manganese Dioxide-based Bifunctional Oxygen Reduction/Evolution Electrocatalysts: Effect of Perovskite Doping and Potassium Ion Insertion, *Electrochimica Acta*, Volume 123, 20 March 2014, Pages 42–50, ISSN: 0013-4686.
1242. Dennis Wittmaier, Timo Danner, Norbert Wagner, K. Andreas Friedrich, Screening and further investigations on promising bi-functional catalysts for metal–air batteries with an aqueous alkaline electrolyte, *Journal of Applied Electrochemistry*, January 2014, Volume 44, Issue 1, pp 73-85, ISSN: 1572-8838(electronic version).
1243. Harsharaj S. Jadhav, Ramchandra S. Kalubarme, Jang-Woong Roh, Kyu-Nam Jung, Kyoung-Hee Shin, Choong-Nyeon Park and Chan-Jin Park, Facile and Cost Effective Synthesized Mesoporous Spinel NiCo₂O₄ as Catalyst for Non-Aqueous Lithium-Oxygen Batteries, *J. Electrochem. Soc.*, 2014 volume 161, issue 14, A2188-A2196, ISSN: 1945-7111(online).
1244. Zhong-Li Wang , Dan Xu , Ji-Jing Xu and Xin-Bo Zhang, Oxygen electrocatalysts in metal–air batteries: from aqueous to nonaqueous electrolytes, *Chem. Soc. Rev.*, 2014, 43, 7746-7786, ISSN: 1460-4744(web).

1245. Qing Li , Ruiguo Cao , Jaephil Cho , * and Gang Wu, Nanocarbon Electrocatalysts for Oxygen Reduction in Alkaline Media for Advanced Energy Conversion and Storage, *Advanced Energy Materials*, 2014, 4, 1301415, ISSN: 1614-6840(online).

(2720)Nineva, Ts. Dobrovolska and I. Krastev, Electrodeposition of silver-cobaltalloys from a single cyanide-pyrophosphate bath, Bulg. Chem. Commun., vol. 40, 3,(2008), 248.

1246. Nazila Dadvand and Mina Dadvand, Pulse Electrodeposition of Nanostructured Silver-Tungsten-Cobalt Oxide Composite from a Non-Cyanide Plating Bath, *Journal of the Electrochemical Society*, 161,(14), 2014, D730-D735.

(2721)Tatjana Novaković, Nenad Radić, Boško Grbić, Vera Dondur, Miodrag Mitrić, Danijela Randjelović, Dimitar Stoychev, Plamen Stefanov, The thermal stability of porous alumina/stainless steel catalyst support obtained by spray pyrolysis, Applied Surface Science, 2008, 255, 5, pp. 3049-3055, ISSN-01694332.

1247. M.W. Liao, C.K. Chung, Growth of porous anodized alumina on the sputtered aluminum films with 2D–3D morphology for high specific surface area, *Applied Surface Science*, Volume 309, 2014, Pages 290–294, ISSN-01694332

1248. Elena Ienei, Andreea C. Milea, Anca Duta, Influence of Spray Pyrolysis Deposition Parameters on the Optical Properties of Porous Alumina Films, *Energy Procedia*, 48(2014)97–104, Proceedings of the 2nd International Conference on Solar Heating and Cooling for Buildings and Industry(SHC 2013)

1249. Г.Б.Атанасова, Дисертация “Доктор”, “Характеризиране на тънки оксидни филми, приложими за каталитични носители”, ИОНХ-БАН(2014)

(2722)Tatjana Novaković, Nenad Radić, Boško Grbić, Tsvetana Marinova, Plamen Stefanov, Dimitar Stoychev, Oxidation of n-hexane over Pt and Cu–Co oxide catalysts supported on a thin-film zirconia/stainless steel carrier, Catalysis Communications, Volume 9, Issue 6, 31 March 2008, Pages 1111–1118

1250. Laura Usón, María Gracia Colmenares, José L. Hueso, Víctor Sebastián, Francisco Balas, Manuel Arruebo, Jesús Santamaría, VOCs abatement using thick eggshell Pt/SBA-15 pellets with hierarchical porosity, *Catalysis Today*, Volume 227, 15 May 2014, Pages 179–186, *Molecular Sieves and Catalysis: Selected papers from CIS-5 Conference*

1251. H. F. Liu, B. J. Zheng, A. Q. Dao, S. T. Yi, D. S. Jiang, C. Y. Fu, F. Xiao, One-pot synthesis and photocatalytic activity of SnO₂/TiO₂ nanocomposite thin film, *Materials Research Innovations*, Volume 18, Issue S2(May 2014), pp. S2-707-S2-710, Print ISSN: 1432-8917, Online ISSN: 1433-075X

1252. Yu Liu, Yunqing Tang, Ping Yang, Xiaoming Yuan & Juan Guo, Experimental and numerical approach on interfacial properties of W/Al bilayer films for electronic devices manufacturing, *Composite Interfaces*, Volume 21, Issue 6, 2014, pp. 507-520, ISSN 1568-5543.

1253. Xing-Long Li, Jin Deng, Jing Shi, Tao Pan, Chu-Guo Yu, Hua-Jian Xu and Yao Fu, Selective conversion of furfural to cyclopentanone or cyclopentanol using different preparation methods of Cu–Co catalysts, *Green Chem.*, Accepted 22 Oct 2014, First published online 23 Oct 2014, DOI: 10.1039/C4GC01601G

(2724)S. Papadimitriou, A. Tegou, E. Pavlidou, S. Armyanov, E. Valova, G. Kokkinidis, S. Sotiropoulos, Preparation and characterisation of platinum- and goldcoated copper, iron, cobalt and nickel deposits on glassy carbon substrates, Electrochimica Acta, 53,(22)(2008)6559-6567

1254. P. G. Corradini, E. Antolini, J. Perez, Activity, short-term stability(poisoning tolerance)and durability of carbon supported Pt-Pr catalysts for ethanol oxidation, *J. Power Sources*, 251, 2014, 402-410.

1255. L. Tamašauskaitė-Tamašiūnaitė, A. Radomskis, K. Antanavičiūtė, J. Jablonskienė, A. Balčiūnaitė, A. Žielienė, L. Naruškevičius, R. Kondrotas, E. Norkus, *Intern. J. of Hydr. Ener.*, 39, 2014, 4282-4290.
1256. R. Ojani, Z. Abkar, E. Hasheminejad, J.-B. Raouf, Rapid fabrication of Cu/Pd nano/micro-particles porous-structured catalyst using hydrogen bubbles dynamic template and their enhanced catalytic performance for formic acid electrooxidation, *Intern. J. Hydr. Ener.*, 39, 2014, 7788-7797.
1257. G. Caballero-Manrique, A. Velázquez-Palenzuela, E. Brillas, F. C., J. A. Garrido, R. M. Rodríguez, P.-L. Cabot, Electrochemical synthesis and characterization of carbon-supported Pt and Pt–Ru nanoparticles with Cu cores for CO and methanol oxidation in polymer electrolyte fuel cells, *Intern. J. Hydr. Energy*, 39, 2014, 12859-12869.
1258. Wouter Maijenburg, “Templated electrodeposition of functional nanostructures: nanowires, nanotubes and nanocubes”, PhD Thesis, University of Twente, Enschede, The Netherlands(2014). ISBN: 978-90-365-3603-5.
1259. G. Caballero de Sanchez, I. Nadeem, E. Brillas, J.A. Garrido, R.M. Rodriguez, F. Centellas, P.L. Cabot, Electrochemical synthesis of carbon supported Pt(Cu)and Pt-Ru(Cu)nanoparticles as anode electrocatalysts for fuel cells, P34, p.187, XXXV Meeting of the Electrochemistry Group of the Spanish Royal Society of Chemistry and 1st E3 Mediterranean Symposium: Electrochemistry for environment and Energy, July 14 to 16, 2014 in Burgos, Spain.
1260. L. Tamasauskaite-Tamasiunaite, A. Baronaite, I. Stankeviciene, J. Vaiciuniene, R. Kondrotas, R. Juskenas, E. Norkus, Investigation of Borohydride Oxidation on Graphene Supported Gold-Copper Nanocomposites, *J. Electrochem. Society*, 161(12)2014, F1237-F1242.
1261. L. Tamašauskaitė-Tamašiūnaitė, J. Rakauskas, A. Balčiūnaitė, A. Zabelaitė, J. Vaičiūnienė, A. Selskis, R. Juškėnas, V. Pakštas, E. Norkus, Gold-Nickel/Titania Nanotubes as Electrocatalysts for Hydrazine Oxidation, *J. Power Sources*, 272, 2014 362-370
1262. V. Kepeniene, L. Tamasauskaite-Tamasiunaite, J. Jablonskiene, J. Vaiciuniene, R. Kondrotas, R. Juskenas, E. Norkus, Investigation of Graphene Supported Platinum-Cobalt Nanocomposites as Electrocatalysts for Ethanol Oxidation, *J. Electrochem. Soc.*, 161,2014, F1354-F1359.
1263. V. Kepeniene, J. Vaiciuniene, R. Kondrotas, V. Pakstas, L. Tamasauskaite-Tamasiunaite, E. Norkus, Electrocatalyst for the Alkaline Alcohols Fuel Cells, *ECS Trans.*, 64, 2014, 1147-1159.
1264. Balčiūnaitė, S. Lichušina, D. Šimkūnaitė, A. Zabelaitė, A.s Selskis, L. Tamašauskaitė-Tamašiūnaitė, E. Norkus, Gold-Zinc-Cobalt Deposited on Titanium as Electrocatalysts for Borohydride Oxidation, *ECS Trans.*, 64,2014, 1103-1112.
1265. V. Kepeniene, J. Jablonskiene, J. Vaiciuniene, R. Kondrotas, R. Juskenas, L.Tamasauskaite-Tamasiunaite, Investigation of Graphene Supported Platinum-Cobalt Nanocomposites as Electrocatalysts for Ethanol Oxidation, *ECS Trans.* 59, 2014, 217-228.
1266. L. Tamasauskaite-Tamasiunaite, A. Balciunaite, A. Zabelaitė, J. Vaiciuniene, R.Juskenas, A. Selskis, E. Norkus, Ethanol Electro-Oxidation in an Alkaline Medium Using the Nanostructured Platinum-Nickel Electrocatalysts, *ECS Trans.* 59, 2014, 247-257.
1267. Kim, J. Lee, S. Kim , Y.-R. Kim, C. K. Rhee, Contrasting Electrochemical Behavior of CO, Hydrogen and Ethanol on Single-Layered and Multiple-Layered Pt Islands on Au Surfaces, *J. Phys. Chem. C*, 118, 201424425–24436.

(2729) Anomalous diffusion of a tethered membrane: A Monte Carlo investigation, Popova, Hristina; Milchev, Andrey, Physical Review E Volume: 77 Issue: 4 Article Number: 041906 Part: 1 Published: APR 2008

1268. Dynamical scaling of polymerized membranes, izuochi, Ken-ichi; Nakanishi, Hiizu; Sakaue, Takahiro, *EPL* Volume: 107 Issue: 3 Article Number: 38003 Published: AUG 2014

(2730)P.M. Rafailov, C. Thomsen, M. Monev, U. Dettlaff-Weglikowska, S. Roth, Electrochemical functionalization of SWNT bundles in acid and salt media as observed by Raman and X-ray photoelectron spectroscopy, Physica Status Solidi(B)Basic Research, 245(10)(2008)1967-1970.

1269. V.K. Abdelkader, M. Domingo-García, M.D. Gutiérrez-Valero,(.), F.J. Lopez-Garzon, M.J. Pérez-Mendoza, Sidewall chlorination of carbon nanotubes by iodine trichloride, *J Phys Chem C*, 118(5)(2014)2641-2649.
1270. J. Smithyman, R. Liang, Flexible supercapacitor yarns with coaxial carbon nanotube network electrodes. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, 184(1)(2014)34-43.
1271. B. Liu, M. Wang, Preparation and characterization of size-controlled silver nanoparticles decorated multi-walled carbon nanotubes and their electrocatalytic reduction properties for hydrogen peroxide, *Russian Journal of Electrochemistry*, 50(5)(2014)476-481.
1272. D. Janas, S.K.Kreft, S. Boncel, K.K.K. Koziol, Durability and surface chemistry of horizontally aligned CNT films as electrodes upon electrolysis of acidic aqueous solution *Journal of Materials Science*, 49(20)(2014)7231-7243.

(2736)M. Stoimenova, The universal electro-optic response of charged colloids in low electrolyte suspensions, J. Colloid Interface Sci. 323(2008)274-281.

1273. V. Milkova, K. Kamburova, Ts. Radeva, Electro-optics of polyelectrolyte multilayers on colloidal particles, *Colloids Surf. A: Physicochem. Eng. Aspects* 460, 2014, 502-509.
1274. K. Kamburova, V. Milkova, Ts. Radeva, Polyelectrolyte coatings on hematite nanoparticles impregnated with corrosion inhibitor benzotriazole, *Colloids Surf. A: Physicochem. Eng. Aspects* 462, 2014, 237-243.

(2740)D. Tatchev, Structure analysis of multiphase systems by anomalous small-angle X-ray scattering, Philosophical Magazine, 88,(2008)1751-1772

1275. K.Høydalsvik, J.B. Fløystad, A.Voronov, G.J. B. Voss, M.Esmaeili, J. Kehres, H.Granlund, U.Vainio, J.W. Andreasen, M.Rønning, D.W. Breiby, Morphology Changes of CoCatalyst Nanoparticles at the Onset of Fischer-Tropsch Synthesis, *J. Phys. Chem. C*, 118, 2014, 2399-2407.

(2741)A. Tegou, S. Papadimitriou, S. Armanyanov, E. Valova, G. Kokkinidis, S. Sotiropoulos, Oxygen reduction at platinum- and gold-coated iron, cobalt, nickel and lead deposits on glassy carbon substrates, Journal of Electroanalytical Chemistry, 623(2008)187-196.

1276. V. V. Kusnetsov, B. I. Podlovchenko, R. I. Shakurov, K. V. Kavyrshina, S. E. Lyahenko, nPtO(H_{x-2n}MoO₃) as a promising catalyst for the oxidation of methanol. Synthesis and electrocatalytic properties, *Intern. J. Hydrog. Ener.*, 39, 2014, 829-836.
1277. M. Saremi, M. Salehisaki, The Catalytic Effect of Polypyrrole/Pt-Cu on Oxygen Reduction Reaction, *Electroanalysis*, 26, 2014, 1606-1611.
1278. Н. А. Майорова, О. М. Жигалина, В. Г. Жигалина, О. А. Хазова, Pt/Pd/C-катализатор с ультрамалым количеством платины для реакции восстановления кислорода, *Электрохимия*, 50, 2014, 251-259.
1279. A. P. O'Mullane, From single crystal surfaces to single atoms: Investigating active sites in electrocatalysis, *Nanoscale*, 6, 2014, 4012-4026.
1280. J. VanDrunen, B. K. Pilapil, Y. Makonnen, D. Beauchemin, B. D. Gates, G. Jerkiewicz, Electrochemically Active Nickel Foams as Support Materials for Nanoscopic Platinum Electrocatalysts, *ACS Applied Materials & Interfaces*, 6, 2014, 12046-12061.
1281. L. Tamasauskaite-Tamasiunaite, A. Baronaite, I. Stankeviciene, J. Vaiciuniene, R. Kondrotas, R. Juskenas, E. Norkus, Investigation of Borohydride Oxidation on Graphene Supported Gold-Copper Nanocomposites, *J. Electrochem. Society*, 161, 2014, F1237-F1242.
1282. R. N. Singh, R. Awasthi, C. S. Sharma, Review: An overview of recent development of platinum-based cathode materials for direct methanol fuel cells, *J. Electrochem. Sci.*, 9, 2014, 5607-5639.

1283. E. Sutter, K. Jungjohann, S. Bliznakov, A. Courty, E. Maisonhaute, S. Tenney, P. Sutter, In situ liquid-cell electron microscopy of silver–palladium galvanic replacement reactions on silver nanoparticles, *Nature Communications*, 5, 2014, Article number: 4946.

(2746)V. Tsakova, How to affect number, size and location of metal particles deposited in conducting polymer layers, *J. Solid State Electrochem.*, 12 ,2008, 1421-1434.

1284. E.V. Zolotukhina, I.S. Bezverkhyy, M.A.Vorotyntsev, One-stage periodical anodic-cathodic double pulse deposition of nanocomposite materials. Application to Prussian Blue/polypyrrole film coated electrodes, *Electrochimica Acta*, 122 ,2014, 247-258.

1285. A. Fedorczyk, J. Ratajczak, A. Czerwiński, M. Skompska, Selective deposition of gold nanoparticles on the top or inside a thin conducting polymer film, by combination of electroless deposition and electrochemical reduction, *Electrochim. Acta*, 122 , 2014, 267-274.

1286. X. Feng, Y. Zhang, Z. Yan, Y. Ma, Q. Shen, X. Liu, Q. Fan, L. Wang, W. Huang, Synthesis of polyaniline/Au composite nanotubes and their high performance in the detection of NADH, *J. Solid State Electrochem.*, 18 , 2014, 1717-1723.

1287. E.G. Tolstopyatova, N.A. Pogulyaichenko, V.V. Kondratiev, Synthesis and electrochemical properties of composite films based on poly-3,4-ethylenedioxythiophene with inclusions of silver particles, *Russian Journal of Electrochemistry*, 50 , 2014, 510-516.

1288. Z. Li, J. Li, J. Lu, Preparation and electrochemical properties of Ag/PANI nanocomposite, *Gaofenzi Cailiao Kexue Yu Gongcheng/Polymeric Materials Science and Engineering*, 30, 2014, 168-172.

1289. G. Mondin, Functionalization of particles and selective functionalization of surfaces for the electroless metal plating process, PhD Thesis, TU Dresden, Germany, 2014.

(2749)E. Valova, S. Armyanov, J. Dille, Y. Van Ingelgem, A. Hubin and O. Steenhaut, 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)D449-D458

1290. Duhin, A. Rozenblat-Raz, L. Burstein, A. Inberg, D. Horvitz, Y. Shacham-Diamand, N. Eliaz, E. Gileadi, Growth study of nanoscale Re-Ni coatings on functionalized SiO₂ using electroless plating, *Appl. Surf. Sci.*, 313, 2014, 159–165.

(2750)E. Valova, S. Armyanov, 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)709–715(2008).

1291. Y. Kamimoto, K. Yamamoto, S. Yamashita, T. Sakai, R. Ichino, *Science of Advanced Materials*, Preparation of Zn–Ni–P Alloys with High Zn Content Using Electrochemical Processes, 6, 2014, 2269-2274.

(2752)A.M. Zhivkov, A.Y. Gyurova, High frequency electric polarizability of bacteria *E. coli*: Dependence on the medium ionic strength, 2008, *Colloids and Surfaces B* 66(2008)201-205.

1292. S.A. Klemeshev, M.P. Petrov, A.K. Shalygin, A.A. Trusov, A.V. Voitylov, V.V. Vojtylov, Electro-optical effects in disperse systems in strong electric fields of arbitrary shape, *Colloids and Surfaces A* 456, 2014, 114-119.

(2817)I.Avramov, *J. Phys.: Condens. Matter* 21(2009)215402(3pp)“Rigid–floppy percolation threshold” ISSN 1361-648X

1293. M. Ojovann ., Thermodynamic parameters of bonds in glassy materials from shear viscosity coefficient data, *International journal of applied glass science*, 5(1):22-25; SI 10.1111/ijag.12045 MAR 2014

(2818) I.Avramov, Ch. Tzvetkova, Ts. Vassilev, “kinetics Of Relaxation And Crystallization Of Sodium Metaphosphate Glass” *Journal Of Non-Crystalline Solids* 355(2009)23–28 ISSN 0022-3093

1294. B.K. Money, K. Hariharan, Mixed alkali effect on crystallization kinetics of $x\text{Na}_2\text{O}:(50-x)\text{Li}_2\text{O}:50\text{P}_2\text{O}_5$. 262(2014)824-828.
1295. L. Mu+-oz-Senovilla, F. Mu+-oz, Behaviour of viscosity in metaphosphate glasses. Journal of Non-Crystalline Solids, 385(2014)9-16.

(2821)I.Avramov, Relationship Between Diffusion, Self-Diffusion And Viscosity Journal Of Non-Crystalline Solids 355(2009)745–747 ISSN 0022-3093

1296. Ikeda, M; Aniya, M, A relationship between diffusivity and cooperativity of supercooled liquids in the proximity of glass transition Journal of non-crystalline solids, 383 44-48; SI 10.1016/j.jnoncrysol.2013.04.004 JAN 1 2014
1297. Goncalves, LGV; Rino, JP, Diffusion mechanisms in lithium disilicate melt by molecular dynamics simulation, Journal of non-crystalline solids, 402 91-95; 10.1016/j.jnoncrysol.2014.05.018 OCT 15 2014

(2822)Scaling exponents of forced polymer translocation through a nanopore, Bhattacharya, A.; Morrison, W. H.; Luo, K.; Ala-Nissila, Ying, S. -C.); Milchev, A.; Binder, K., European Physical Journal E Volume: 29 Issue: 4 Pages: 423-429 Published: AUG 2009

1298. Conformation-dependent translocation of a star polymer through a nanochannel, Liu, Zhu; Liu, Jiannan; Xiao, Mengying, Biomicrofluidics Volume: 8 Issue: 5 Article Number: 054107 Published: SEP 2014
1299. Biomolecule transport across biomembranes in the presence of crowding: Polymer translocation driven by concentration and disorder gradients, de Haan, Hendrick W.; Slater, Gary W., Physical Review E Volume: 90 Issue: 2 Article Number: 020601 Published: AUG 29 2014
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=23&SID=P1wFzndUjjiamw9btUF&page=1&doc=3&cacheurlFromRightClick=no
1300. Free energy evaluation in polymer translocation via Jarzynski equality, Mondaini, Felipe; Moriconi, L., Physics Letters A Volume: 378 Issue: 26-27 Pages: 1767-1772 Published: MAY 16 2014
1301. Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study, Polson, James M.; Dunn, Taylor R., Journal of Chemical Physics Volume: 140 Issue: 18 Article Number: 184904 Published: MAY 14 2014
1302. Polymer translocation into a confined space: Influence of the chain stiffness and the shape of the confinement, Zhang, Kehong; Luo, Kaifu, Journal of Chemical Physics Volume: 140 Issue: 9 Article Number: 094902 Published: MAR 7 2014

(2823)Forced-Induced Desorption of a Polymer Chain Adsorbed on an Attractive Surface: Theory and Computer Experiment, Bhattacharya, S.; Rostiashvili, V. G.; Milchev, A.; ., Macromolecules Volume: 42 Issue: 6 Pages: 2236-2250 Published: MAR 24 2009

1303. Transitions of tethered chain molecules under tension, Luettmer-Strathmann, Jutta; Binder, Kurt, Journal of Chemical Physics Volume: 141 Issue: 11 Article Number: 114911 Published: SEP 21 2014
1304. Adsorption-induced changes of the structure of the tethered chain layers in a simple fluid, Borowko, M.; Sokolowski, S.; Staszewski, T., Journal of Chemical Physics Volume: 140 Issue: 23 Article Number: 234904 Published: JUN 21 2014
1305. Pulling Single Adsorbed Bottle-Brush Polymers off a Flat Surface: A Monte Carlo Simulation, Hsu, Hsiao-Ping; Paul, Wolfgang; Binder, Kurt, Macromolecules Volume: 47 Issue: 1 Pages: 427-437 Published: JAN 14 2014

(2824)Polymer desorption under pulling: A dichotomic phase transition, Bhattacharya, S.; Rostiashvili, V. G.; Milchev, A.; A. Vilgis, Physical Review E Volume: 79 Issue: 3 Article Number: 030802 Part: 1 Published: MAR 2009

1306. Transitions of tethered chain molecules under tension, Luettmer-Strathmann, Jutta; Binder, Kurt, Journal of Chemical Physics Volume: 141 Issue: 11 Article Number: 114911 Published: SEP 21 2014

1307. Dependence of Polymer Thin Film Adhesion Energy on Cohesive Interactions between Chains, Xia, Wenjie; Hsu, David D.; Keten, Sinan, *Macromolecules* Volume: 47 Issue: 15 Pages: 5286-5294 Published: AUG 12 2014
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=35&SID=Q1ZWJh7IyfmocKtJepr&page=1&doc=3

1308. Pulling Single Adsorbed Bottle-Brush Polymers off a Flat Surface: A Monte Carlo Simulation, Hsu, Hsiao-Ping; Paul, Wolfgang; Binder, Kurt, *Macromolecules* Volume: 47 Issue: 1 Pages: 427-437 Published: JAN 14 2014

(2825)Tz. Boiadjieva, M. Monev, A. Tomandl, H. Kronberger, G. Fafilek, Electrochemical studies on Zn deposition and dissolution in sulphate electrolyte, *Journal of Solid State Electrochemistry*, 13(5)(2009)671-677.

1309. M. Aliofkhazraei, N. Ali, Fabrication and Properties of Micro- and Nanostructured Coatings Using Electrochemical Depositions(Book Chapter), *Comprehensive Materials Processing*, 7(2014)119-156.

1310. M. Steichen, N.R. Brooks, L.V. Meervelt, J. Fransaeer, K. Binnemans, Homoleptic and heteroleptic N-alkylimidazole zinc(II)-containing ionic liquids for high current density electrodeposition, *Dalton Transactions*, 43(32)(2014)12329.

1311. F.C. Walsh, C.P. Léon, L. Berlouis, G. Nikiforidis, L.F. Arenas-Martínez, D. Hodgson, D. Hall, The Development of Zn-Ce Hybrid Redox Flow Batteries for Energy Storage and Their Continuing Challenges, *ChemPlusChem*. n/a. 2014.

1312. E. Riedl, Electrochemical processes for design and modification of interfaces and surfaces of electronic devices, PhD, University of Regensburg, 2014.

(2826)Tz. Boiadjieva, K. Petrov, H. Kronberger, A. Tomandl, G. Avdeev, W. Artner, T. Lavric, (..), M. Monev, Composition of electrodeposited Zn-Cr alloy coatings and phase transformations induced by thermal treatment, *Journal of Alloys and Compounds*, 480(2)(2009)259-264.

1313. P.P. Jana, CrZn_{17+δ} (-0.75 ≤ δ ≤ 2.00): A partly disordered complex intermetallic compound, *Journal of Alloys and Compounds*, 610(2014)55-61.

1314. E. Riedl, Electrochemical processes for design and modification of interfaces and surfaces of electronic devices, PhD, University of Regensburg, 2014.

(2833)D. Exerowa, D. Platikanov, Thin liquid films from aqueous solutions of non-ionic polymeric surfactants, *Advances in Colloid and Interface Science* 147-48(2009)74-87.

1315. L. Ge, W. Shao, S. Lu, R. Guo, Droplet topology control of Janus emulsion prepared in one-step high energy mixing, *Soft Matter* 10, 2014, 4498-4505.

1316. J. Hurcom, A. Paul, R.K. Heenan, A. Davies, N. Woodman, R. Schweins, P.C. Griffiths, The interfacial structure of polymeric surfactant stabilised air-in-water foams, *Soft Matter* 10, 2014, 3003-3008.

1317. Terziyski, L. Alexandrova, I. Stoineva, N. Christova, R. Todorov, R. Cohen, Foam and wetting films from rhamnolipids produced by *Pseudomonas aeruginosa* BN10, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 299-305.

1318. H. Hasinovic, C. Boggs, S.E. Friberg, I. Kovach, J. Koetz, Janus Emulsions from a One-Step Process; Optical Microscopy Images, *J. Dispersion Sci. Technol.* 35, 2014, 613-618.

(2834)D. Exerowa, G. Gotchev, T. Kolarov, K. Kristov, B. Levecke, T. Tadros, Comparison of oil-in-water emulsion films produced using ABA or AB_n copolymers, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 335(2009)50-54.

1319. V. Kurz, T. Tanaka, G. Timp, Single cell transfection with single molecule resolution using a synthetic nanopore, *Nano Lett.* 14, 2014, 604-611.

(2835)D. Exerowa, G. Gotchev, T. Kolarov, K. Kristov, B. Levecke, T. Tadros, Oil-in-water emulsion films stabilized by polymeric surfactants based on inulin with different

degree of hydrophobic modification, Colloids and Surfaces A: Physicochemical and Engineering Aspects 334(2009)87-91.

1320. D. Mandracchia, G. Tripodo, A. Latrofa, R. Dorati, Amphiphilic inulin-d- α -tocopherol succinate(INVITE)bioconjugates for biomedical applications, *Carbohydr Polym* 103, 2014, 46-54
1321. S. Kokubun, I. Ratcliffe, P.A. Williams, Functional properties of hydrophobically modified inulin, *Gums Stabilisers Food Ind.- Changing Face Food Manuf.: Role Hydrocolloids 2013 17th International Gums and Stabilisers for the Food Industry Conference Royal Society of Chemistry, Wales*, 2014, 245-251.
1322. D. Meshulam, J. Slavuter, U. Lesmes, Behavior of Emulsions Stabilized by a Hydrophobically Modified Inulin Under Bio-Relevant Conditions of the Human Gastro-Intestine, *Food Biophys.* 9, 2014, 416-423.

(2836)D. Exerowa, D. Platikanov, B. Levecke, T. Tadros, Emulsion and wetting films stabilized by hydrophobically modified inulin polymeric surfactant, Journal of Dispersion Science and Technology 30(2009)789-794.

1323. D. Mandracchia, G. Tripodo, A. Latrofa, R. Dorati, Amphiphilic inulin-d- α -tocopherol succinate(INVITE)bioconjugates for biomedical applications, *Carbohydr Polym* 103, 2014, 46-54.

(2838)J. Fisak, V. Stoyanova, P. Chaloupecky, D. Rezacova, T. Tsacheva, T. Kuppenova, M. Marinov, Soluble and insoluble pollutants in fog and rime water samples. Soil and Water Research 4,(2009)S123-S130.

1324. P. Voldrichova, V. Chrastny, A. Sipkova, J. Farkas, M. Novak, M. Stepanova, M. Krachler, F. Veselovsky, V. Blaha, E. Prechova, A. Komarek, L. Bohdalkova, J. Curika, J. Mikova, L. Erbanova, P. Pacherova, Zinc isotope systematics in snow and ice accretions in Central European mountains, *Chemical Geology* 388, 2014, 130-141.

(2839)J. Georgieva, S. Arnyanov, I. Poulios, S. Sotiropoulos, An all-solid photoelectrochemical cell for the photooxidation of organic vapours under ultraviolet and visible light illumination, Electrochemistry Communications, 11(8)(2009)1643-1646.

1325. O. Iwu, A. Galeckas, S. Diplas, F. Seland, A. Yu. Kuznetsov, T. Norby, Effects of temperature, triazole and hot-pressing on the performance of TiO₂ photoanode in a solid-state photoelectrochemical cell, *Electrochim. Acta*, 115, 2014, 66-74.

(2840)I. Gutzow, J.W.P. Schmelzer, The Third Principle of thermodynamics and the zero-point entropy of glasses: History and new developments, J. Non-Cryst. Solids 355, 10-12, 2009, 581-594.

1326. G.P. Johari, R.M. Shanker, On the solubility advantage of a pharmaceutical's glassy state over the crystal state, and of its crystal polymorphs, *Thermochim. Acta* 598, 2014, 16-27.

(2843)Haug, H Kruth, M Dubiel, H Hofmeister, S Haas, D Tatchev, A Hoell, SAXS study on the formation of core-shell Ag/Au nanoparticles in glass, Nanotechnology, 20(2009)Article number 505705

1327. D.-W. Yin, Z. Liu, X.-Y. Yang, X.-Y. Zhang, W.-D. Xiang, Preparation and Optical Properties of AgIn Alloy Quantum Dots Doped Glass, *Journal of Inorganic Materials*, 29, 2014, 1034-1038.
1328. V. J. Pinfield, D. J. Scott. "Anomalous Small Angle X-Ray Scattering Simulations: Proof of Concept for Distance Measurements for Nanoparticle-Labelled Biomacromolecules in Solution." *PloS one* 9, 2014, e95664.
1329. K. Høydalsvik, J. B. Fløystad, A. Voronov, G. J. Voss, M. Esmaeili, J. Kehres, H. Granlund, U. Vainio, J. W. Andreasen, M. Rønning, D. W. Breiby, Morphology Changes of Co Catalyst Nanoparticles at the Onset of Fischer-Tropsch Synthesis. *The Journal of Physical Chemistry C*, 118, 2014, 2399-2407.

- (2848)A. Hrussanova, I. Krastev, Electrodeposition of silver-tin alloys from pyrophosphate-cyanide electrolytes, J. Appl. Electrochem. 39,(2009), 989-994.**
1330. F. Chen, X. Zhao, H. Liu, J. Qu, Enhanced destruction of $\text{Cu}(\text{CN})_3^{2-}$ by H_2O_2 under alkaline conditions in the presence of EDTA/pyrophosphate, Chem. Eng. J. 253 (2014) 478-485.
- (2851)A. Jordanova, G.A. Georgiev, S. Alexandrov, R. Todorov, Z. Lalchev, Influence of surfactant protein C on the interfacial behavior of phosphatidylethanolamine monolayers, European Biophysics Journal 38(2009)369-379.**
1331. Ася Цанова, „Свойства и механизми на действие на невропептиди с моделни мембрани с оглед приложението им във фармацията” Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.
- (2852)B.M. Jović, Ts. Dobrovolska, U. Lačnejac, I. Krastev, and V.D. Jović, Characterization of electrodeposited Co-Cd alloy coatings by anodic linear sweep voltammetry, Electrochimica Acta, 54,(2009), 7565-7572.**
1332. A.H. Sulaymon, S. A.M. Mohammed, A.H. Abbar, Characterization and Electrochemical Preparation of Thin Films of Binary Heavy Metals (Cu-Pb, Cu-Cd, Cu-Zn) from Simulated Chloride Wastewaters, Int. J. Electrochem. Sci., 9,(2014), 6328-6351.
- (2853)- Karamanov A., “Granite-like materials from hazardous wastes obtained by sinter-crystallization of glass frits”, Advances in Applied Ceramics, 108, 1, 2009, 14-21, ISSN: 1743-6753**
1333. Marangoni, M., Ponsot, I., Kuusik, R., & Bernardo, E.(2014). Strong and chemically inert sinter crystallised glass ceramics based on Estonian oil shale ash. Advances in Applied Ceramics, 113(2), 120-128.
1334. Yao, S. Y., Wang, P., Shao, D., Cao, H. X., & Zhang, W. W.(2014). Effect of ZnO on preparation and properties of CaSiO_3 glass-ceramics. Materials Research Innovations, 18(S4), S4-661.
1335. Yao, R., Liao, S., Dai, C., Yang, Y., & Zheng, F.(2014). Dual functions of novel glass-ceramic floor tile design and preparation. Ceramics International, 40(6), 8667-8675.
- (2854)Karamanov A., Arrizza L. , Ergul S., “Sintered Material From Alkaline Basaltic Tuffs”, J. European Cer. Soc., 29, 2009, 595-601, ISSN: 0955-2219**
1336. Teixeira, S. R., Magalhães, R. S., Arenales, A., Souza, A. E., Romero, M., & Rincón, J. M.(2014). Valorization of sugarcane bagasse ash: Producing glass-ceramic materials. Journal of environmental management, 134, 15-19.
1337. Левицкий, И. А., Баранцева, С. Е., & Позняк, А. И. Использование базальтов и туфов в керамических массах для плиток внутренней облицовки стен. Химия и технология неорганических материалов и веществ 37-43, 2014
- (2856)D.Kashchiev, D.Exerowa, “Effect of surfactant adsorption time on the observation of Newton black film in foam film”, J.Colloid Interface Sci. 330(2009)404**
1338. H. Ohshima, K. Makino, “Colloid and Interface Science in Pharmaceutical Research and Development”, Elsevier, Amsterdam, 2014.
- (2857)Kasyutich, D. Tatchev, A. Hoell, F. Ogrin, C. Dewhurst, W. Schwarzacher, Small angle x-ray and neutron scattering study of disordered and three dimensional-ordered magnetic protein arrays, Journal of Applied Physics 105(2009)07B528.**
1339. L.Melnikova, K.Pospiskova, Z. Mitroova, P. Kopcansky, I. Safarik, Peroxidase-like activity of magnetoferritin. Microchimica Acta, 181, 2014, 295-301.
1340. L. Melnikova, V. I. Petrenko, M. V. Avdeev, O. I. Ivankov, L. A. Bulavin, V. M. Garamus, L. Almásy, Z. Mitroova, P. Kopcansky. "SANS contrast variation study of magnetoferritin

- structure at various iron loading." *Journal of Magnetism and Magnetic Materials* 377, 2014, 77–80
1341. Ville, L. *Pyrococcus furiosus*-magnetoferritiinin ja PAMAM-dendrimeerin agglomeroituminen: liuosparametrien epäsuorat vaikutukset magneettisuuteen ja katalyyttiseen aktiivisuuteen. 2014, PhD Thesis, University of Helsinki.
- (2858)Cs. Kotsmar, D. Arabadzhieva, K. Khristov, E. Mileva, D.O. Grigoriev, R. Miller, D.Exerowa, Adsorption layer and foam film properties of mixed solutions containing β -casein and C12 DMPO, *Food Hydrocolloids* 23(2009)1169-1176.**
1342. K. Engelhardt, U. Weichsel, E. Kraft, D. Segets, W. Peukert, B. Braunschweig, Mixed layers of β -lactoglobulin and SDS at air-water interfaces with tunable intermolecular interactions, *J Phys Chem B*, 118, 2014, 4098-4105.
- (2861)F.Kurniawan, V. Tsakova, V.M. Mirsky, Analytical applications of electrodes modified by gold nanoparticles: Dopamine detection" *J. Nanosci. Nanotechnol.*, 9, 2009, 2407-2412.**
1343. B. Luo, X. Lia, J. Yang, J. Gua, M. Wang, Lu Jiang, Copper Nanocubes Modified Glass Carbon Electrode for the Detection of Dopamine, *ECS Electrochem. Lett.* 3, 2014, B5-B7.
1344. K. Khun, Z. H. Ibupoto, X. Liu, N.A. Mansor, A.P.F. Turner, V. beni, M. Willander, An Electrochemical Dopamine Sensor Based on the ZnO/CuO Nanohybrid Structures, *J. Nanosci. Nanotechnol.* 14, 2014, 6646-6652.
- (2862)V. Lyutov, G. Georgiev, V. Tsakova, Comparative study on the electrochemical synthesis of polyaniline in the presence of mono- and poly(2-acrylamido-2-methyl-1-propanesulfonic)acid, *Thin Solid Films*, 517(24), 2009, 6681-6688**
1345. O.L. Gribkova, A.A. Nekrasov, V.F. Ivanov, V.I. Zolotarevsky, A.V. Vannikov, Templating effect of polymeric sulfonic acids on electropolymerization of aniline, *Electrochimica Acta*, 122, 2014, 150-158.
1346. A.A. Nekrasov, O.L. Gribkova, V.I. Zolotarevskii, A.A. Isakova, V.F. Ivanov, A.V. Vannikov, Effect of polymer sulfoacids with varying chain rigidity on the nucleation of their interpolymer complexes with polyaniline during electropolymerization on highly orientated pyrolytic graphite, *Russian J. Electrochem.* 50, 2014, 1105-1117.
- (2867)Milev D.R., Atanasov P.A., Dikovska A.Og., Dimitrov I.G., Petrov K.P., Avdeev G.V., Pulsed laser deposited Er³⁺, Yb³⁺:YVO₄ waveguiding films on MgO/Si substrates, *Applied Surface Science*, 255(10), (2009), 5284-5287. ISSN: 0169-4332**
1347. Alcaraz, L., Isasi, J., Fernández, M., Díaz-Guerra, C., Effect of synthesis conditions on the structural characteristics and luminescence properties of Y_{0.9}Eu_{0.1}V_{1-x}Cr_xO₄ (0 ≤ x ≤ 0.5) nanopowders, *Materials Chemistry and Physics*, Volume 145, Issue 1-2, (2014), 18-26. ISSN: 0254-0584
- (2869)M. Mitov, G. Hristov, E. Hristova, R. Rashkov, M. Arnaudova, A. Zielonka, Complex performance of novel CoNiMnB electrodeposits in alkaline borohydride solutions, *Environmental Chemistry Letters*(2)(2009)167-173.**
1348. Y. Hwang, K. H. Yun, Y. C. Chung, Carbon-free and two-dimensional cathode structure based on silicene for lithium-oxygen batteries: A first-principles calculation, *Journal of Power Sources* 275, 2014, 32-37.
- (2878)R. Rashkov, M. Arnaudova, G. Avdeev, A. Zielonka, P. Jannakoudakis, A. Jannakoudakis and E. Theodoridou, 'NiW/TiO_x composite layers as cathode material for hydrogen evolution reaction', *International Journal of Hydrogen Energy* 34/5(2009): 2095-2100. ISSN: 0360-3199**
1349. Manolova, M., Schöberl, C., Freudenberger, R., Katzfuß, A., Kerres, J., Stypka, S., Oberschachtsiek, B., Multi-component alloys as new materials for electrolysis, *Galvanotechnik*, Volume 105, Issue 7, (2014), 1389-1397. ISSN: 0016-4232

(2882)A. Tegou; S. Armyanov; E. Valova; O. Steenhaut, A. Hubin; G. Kokkinidis; S. Sotiropoulos, Mixed platinum-gold electrocatalysts for borohydride oxidation prepared by the galvanic replacement of nickel deposits, Journal of Electroanalytical Chemistry, 634(2009)104-110.

1350. G. Behmenyar, A. N. Akin, J. Power Sources, Investigation of carbon supported Pd-Cu nanoparticles as anode catalysts for direct borohydride fuel cell, 249, 2014, 239-246.
1351. M. Liao, Y. Wang, G. Chen, H. Zhou, Y. Li, C.-J. Zhong, B. H. Chen, Reducing Pt use in the catalysts for formic acid electrooxidation via nanoengineered surface structure, J. Power Sources, 257, 2014, 45-51.
1352. Wouter Maijenburg, "Templated electrodeposition of functional nanostructures: nanowires, nanotubes and nanocubes", PhD Thesis, University of Twente, Enschede, The Netherlands(2014)ISBN: 978-90-365-3603-5
1353. Ensafi, M. Jafari-Asl, B. Rezaei, J. Electroanal. Chem., Graphene nanosheets functionalized with 4-aminothiophenol as a stable support for the oxidation of formic acid based on self-supported Pd-nanoclusters via galvanic replacement from Cu₂O nanocubes, 731, 2014, 20-27.
1354. L. Tamasauskaitė-Tamasiunaite, S. Lichusina, A. Balciunaite, A. Zabielaite, D. Simkunaite, J. Vaiciuniene, A. Selskis, E. Norkus, ECS Trans., Zinc-Cobalt Alloy Deposited on the Titanium Surface as Electrocatalysts for Borohydride Oxidation, 61, 2014, 49-58.
1355. Z. Sukackiene, A. Balciunaite, L. Tamasauskaitė-Tamasiunaite, V. Pakstas, A. Selskis, E. Norkus, Development of New Nanostructured Au/Co/Cu and Au/CoB/Cu Catalysts and Studies of Their Catalytic Activity., ECS Trans. 59, 2014, 295-306.
1356. S. Kalcheva, I. Kanazirski, J. Chem. Technol. & Metall., Kinetics of borohydride electrooxidation: revisited, 49(6)2014, 551-558.

(2888)S. Yaneva, K. Petrov, R. Petrov, N. Stoichev, G. Avdeev and R. Kuziak, 'Influence of silicon content on phase development in Al-Fe-V-Si alloys', Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing 515/1-2(2009): 59-65. ISSN: 0921-5093

1357. Ashrafi, H., Enayati, M.H., Emadi, R., Nanocrystalline Al/Al₁₂(Fe,V)₃Si alloy prepared by mechanical alloying: Synthesis and thermodynamic analysis, Advanced Powder Technology, Volume 25, Issue 5,(2014), 1483-1491, ISSN: 0921-8831
1358. Wu, Y., Liao, H. , Zhou, K., Effect of minor addition of vanadium on mechanical properties and microstructures of as-extruded near eutectic Al-Si-Mg alloy, Materials Science and Engineering A, Volume 602,(2014), 41-48, ISSN: 0921-5093
1359. Wu, Y., Liao, H. , Liu, Y., Zhou, K., Dynamic precipitation of Mg₂Si induced by temperature and strain during hot extrusion and its impact on microstructure and mechanical properties of near eutectic Al-Si-Mg-V alloy, Materials Science and Engineering A, Volume 614,(2014), 162-170, ISSN: 0921-5093

(2909)S.Auer, D.Kashchiev, "Insight into the correlation between lag time and aggregation rate in the kinetics of protein aggregation", Proteins 78(2010)2412

1360. Y.Lin, Y.H.Lee, Y.Yoshimura, H.Yagi, Y.Goto, "Solubility and supersaturation-dependent protein misfolding revealed by ultrasonication", Langmuir 30(2014)1845.
1361. V.A.Borzova, K.A.Markossian, B.I.Kurganov, "Relationship between the initial rate of protein aggregation and the lag period for amorphous aggregation", Intern.J.Biol.Macromol. 68(2014)144.

(2910)S.Auer, D.Kashchiev, "Phase Diagram of α -Helical and β -Sheet Forming Peptides", Phys.Rev.Lett. 104(2010)168105

1362. V.A.Wagoner, M.Cheon, I.Chang, C.K.Hall, "Impact of sequence on the molecular assembly of short amyloid peptides", Proteins 82(2014)1469.

1363. Y.Zou, W.Hao, H.Li, Y.Gao, Y.Sun, G.Ma, "New Insight into Amyloid Fibril Formation of Hen Egg White Lysozyme Using a Two-Step Temperature-Dependent FTIR Approach", *J.Phys.Chem. B* 118(2014)9834.

(2911)I.Avramov, K. Avramova, C. Russel, Journal of Non-Crystalline Solids 356(2010)1201–1203 Useful method to analyze data on overall transformation kinetics

1364. Donfeu Tchana, R., Pfeiffer, T., Rüdinger, B., Deubener, J., Spectroscopy study on the nucleation kinetics of ZrTiO₄ in a lithium aluminosilicate glass., 2014 *Journal of Non-Crystalline Solids* 384, pp. 25-31

(2914)Bhattacharyya, S., Höche, T., Jinschek, J.R., Avramov, I., Wurth, R., Müller, M., Rüssel C., "direct Evidence Of Al-Rich Layers Around Nanosized Zrtio4 In Glass: Putting The Role Of Nucleation Agents In Perspective"Crystal Growth And Design, 10 (2010) Pp. 379-385. ISSN 1528-7483

1365. Chavoutier, M; Caurant, D; Majerus, O; Boulesteix, R; Loiseau, P;Jousseau, C; Brunet, E; Lecomte, E,Effect of TiO₂ content on the crystallization and the color of(ZrO₂,TiO₂)-doped Li₂O-Al₂O₃-SiO₂ glasses, *Journal of non-crystalline solids*, 384 15-24; SI 10.1016/j.jnoncrysol.2013.03.034 JAN 15 2014 ISSN 0022-3093

1366. Liu, SJ; Fu, GZ; Shan, ZT; Ren, XR; Zhang, YF; Zhu, CF; He, W; Yue, YZ,Nanocrystal formation and photoluminescence in the Yb³⁺/Er³⁺ codoped phosphosilicate glasses*Journal of non-crystalline solids*, 383 141-145; SI 10.1016/ j.jnoncrysol. 2013.05.018 JAN 1 2014

1367. Beall, GH., Milestones in Glass-Ceramics: A Personal Perspective, *International journal of applied glass science*, 5(2):93-103; SI 10.1111/ijag.12063 JUN 2014

1368. Shao, G.N., Imran, S.M., Jeon, S.J, Kang, S.J., Kim, H.T,Sol-gel synthesis of photoactive zirconia-titania from metal salts and investigation of their photocatalytic properties in the photodegradation of methylene blue. *Powder Technology* (2014)258, pp. 99-109

1369. Donfeu Tchana, R., Pfeiffer, T., Rüdinger, B., Deubener, J., Spectroscopy study on the nucleation kinetics of ZrTiO₄ in a lithium aluminosilicate glass., *Journal of Non-Crystalline Solids* 384, pp. 25-31(2014)

1370. Dressler, M., Rüdinger, B., Deubener, J., , Crystallization kinetics in a lithium aluminosilicate glass using SnO₂ and ZrO₂ additives, *Journal of Non-Crystalline Solids* 389, pp. 60-65(2014)

1371. Chenu, S., Véron, E., Genevois, C., Matzena, G., Allix, M., Long-lasting luminescent ZnGa₂O₄:Cr³⁺ transparent glass-ceramics *Journal of Materials Chemistry C* (2014)2(46), pp. 10002-10010

1372. Thieme, Katrin, and Christian Rüssel. "Nucleation and growth kinetics and phase analysis in zirconia-containing lithium disilicate glass." *Journal of Materials Science*:(2014)1-12.

(2916)C.Bocker, I.Avramov, C. Russel, Viscosity And Diffusion Of Barium And Fluoride In Na₂O/K₂O/Al₂O₃/SiO₂/BaF₂ Glasses Chemical Physics 369(2010)96–100 ISSN 0021-9606.

1373. Hoell, A., Varga, Z., Raghuwanshi, V. S., Krumrey, M., Bocker, C., & Russel, C.(2014). ASAXS study of CaF₂ nanoparticles embedded in a silicate glass matrix. *Journal of Applied Crystallography*, 47(1), 60-66.

(2917)Tz. Boiadjieva, M. Monev, H. Kronberger, A. Tomandl, K. Petrov, P. Angerer, Effect of PEG 400 on Zn-Cr alloy electrodeposition, JES, 157(3)(2010)D159-D167.

1374. Y. Tian, M. Liu, X. Zhou,(.), Z. Liu, B. Ana, Inhibition of hydrogen evolution reaction on polypyrrole-modified electrode in acid media, *JES*,(161)(3)(2014)E23-E27.

(2920)R.Cabriolu, D.Kashchiev, S.Auer, "Atomistic theory of amyloid fibril nucleation", J.Chem.Phys. 133(2010)225101.

1375. V.Agarwal, B.Peters, "Nucleation near the eutectic point in a Potts-lattice gas model", *J.Chem.Phys.* 140(2014)084111.

1376. T.Ikenoue, Y.H.Lee, J.Kardos, H.Yagi, T.Ikegami, H.Naiki, Y.Goto, "Heat of supersaturation-limited amyloid burst directly monitored by isothermal titration calorimetry", *Proc.Natl.Acad.Sci.USA* 111(2014)6654.

(2923)R. Cohen, R. Todorov, G. Vladimirov, D. Exerowa, Effect of rhamnolipids on pulmonary surfactant foam films, *Langmuir* 26(2010)9423-9428.

1377. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, *Adv Colloid Interface Sci* 209, 2014, 109-126.

(2924)J. Georgieva, S. Armyanov, I. Poulis, A. D. Jannakoudakis, S. Sotiropoulos, Gas Phase Photoelectrochemistry in a Polymer Electrolyte Cell with a Titanium Dioxide/Carbon/Nafion Photoanode, *Electrochemical & Solid-State Letters*, 13(2010)P11-P13.

1378. K. O. Iwu, A. Galeckas, S. Diplas, F. Seland, A. Yu. Kuznetsov, T. Norby, Effects of temperature, triazole and hot-pressing on the performance of TiO₂ photoanode in a solid-state photoelectrochemical cell, *Electrochim. Acta*, 115, 2014, 66-74.

(2926)G. Gotchev, D. Exerowa, K. Khristov, B. Leveck, T. Tadros, Stability of O/W emulsion films from mixed aqueous solutions of inulin-based polymeric and polyethylene glycol surfactants, *Journal of Dispersion Science and Technology* 31(2010)31-37.

1379. D. Mandracchia, G. Tripodo, A. Latrofa, R. Dorati, Amphiphilic inulin-d- α -tocopherol succinate bioconjugates for biomedical applications, *Carbohydr Polym* 103 2014, 46-54.

(2928)I. Gutzow, S. Todorova, Glasses as systems with increased solubility, high chemical reactivity and as sources of accumulated energy, *Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. Part B* 51, 2, 2010, 83-99.

1380. G.P. Johari, R.M. Shanker, On the solubility advantage of a pharmaceutical's glassy state over the crystal state, and of its crystal polymorphs, *Thermochim. Acta* 598, 2014, 16-27.

(2932)K. Hoydalsvik, T. Barnardo, R. Winter, S. Haas, D. Tatchev, A. Hoell, Yttria-zirconia coatings studied by grazing-incidence small-angle X-ray scattering during in situ heating, *Physical Chemistry and Chemical Physics* 12(2010)14492-14500.

1381. E.Heredia, C. Bojorge, J. Casanova, H. Cánepa, A. Craievich, G. Kellermann. Nanostructured ZnO thin films prepared by sol-gel spin-coating, *Applied Surface Science* 317, 2014, 19-25.

1382. Høydalsvik, J. B. Fløystad, A. Voronov, G. J. Voss, M. Esmaili, J. Kehres, H. Granlund, U. Vainio, J. W. Andreasen, M. Rønning, D. W. Breiby, Morphology Changes of Co Catalyst Nanoparticles at the Onset of Fischer-Tropsch Synthesis. *The Journal of Physical Chemistry C*, 118, 2014, 2399-2407.

(2933)Svetlozar Ivanov, Ulrich Lange, Vessela Tsakova, Vladimir M. Mirsky, Electrocatalytically active nanocomposite from palladium nanoparticles and polyaniline: oxidation of hydrazine, *Sensors and Actuators B*, 150, 2010, 271-278.

1383. S. Shukla, S. Chaudhary, A. Umar, G.R. Chaudhary, S.K. Mehta, Tungsten oxide (WO₃) nanoparticles as scaffold for the fabrication of hydrazine chemical sensor, *Sensors and Actuators, B: Chemical*, 196, 2014, 231-237.

1384. P.K. Rastogi, V.Ganesan, S. Krishnamoorthi, Palladium nanoparticles decorated gaur gum based hybrid material for electrocatalytic hydrazine determination, *Electrochimica Acta*, 125, 2014, 593-600.

1385. F. Xu, L. Zhao, F. Zhao, L. Deng, L.Hu, B. Zeng, Electrodeposition of AuPdCu alloy nanoparticles on a multi-walled carbon nanotube coated glassy carbon electrode for the electrocatalytic oxidation and determination of hydrazine, *International Journal of Electrochemical Science*, 9, 2014, 2832-2847.

1386. S. Babanova, U. Martinez, K. Artyushkova, K. Asazawa, H. Tanaka, P. Atanassova, Hydrazine sensor for quantitative determination of high hydrazine concentrations for direct hydrazine fuel cell vehicle applications, *J. Electrochem. Soc.*, 161, 2014, H79-H85.
1387. A. Maringa, T. Nyokong, Behavior of palladium nanoparticles in the absence or presence of cobalt tetraaminophthalocyanine for the electrooxidation of hydrazine, *Electroanalysis*, 26, 2014, 1068-1077.
1388. S. Koçak, B. Aslışen, Hydrazine oxidation at gold nanoparticles and poly(bromocresol purple)carbon nanotube modified glassy carbon electrode, *Sensors and Actuators, B: Chemical*, 196, 2014, 610-618.
1389. K. Ghanbari, Fabrication of silver nanoparticles-polypyrrole composite modified electrode for electrocatalytic oxidation of hydrazine, *Synthetic Metals*, 195, 2014, 234-240.
1390. M. Ferreira, A. De Barros, M. Ferreira, C.J.L Constantino, Nanocomposites based on LbL films of polyaniline and sodium montmorillonite clay, *Synthetic Metals*, 197, 2014, 119-125.
1391. M. Xin, H. Lin, J. Yang, M. Chen, X. Ma, J. Liu, Preparation of Polyaniline/Au0 Nanocomposites Modified Electrode and Application for Hydrazine Detection, *Electroanalysis*, 26, 2014, 2216–2223.
1392. A. de Barros, M. Ferreira, Mariselma; C.J.L. Constantino, Nanocomposites based on LbL films of polyaniline and sodium montmorillonite clay, *Synthetic Metals* 197, 2014, 119-125.
1393. T. Amaya, T. Isaji, M. Abe, T. Hirao, Synthesis of Polyaniline and Transition Metal Nanoparticles Hybrids, *J. Inorg. and Organomet. Polym. Mater.* 2014, DOI:10.1007/s10904-014-0123-z

(2936)- Karamanov A., Georgieva I., Pascova R., I. Avramov, "Pore Formation in Glass Ceramics: Influence of the Stress Energy Distribution", *J. Non-Crystalline Solids*, 356, 117-119, 2010. ISSN: 0022-3093

1394. Xu, W., Sun, X., Koepfel, B. J., & Zbib, H. M.(2014). A continuum thermo-inelastic model for damage and healing in self-healing glass materials. *Int. Journal of Plasticity*, 62, 1-16.

(2937)D.Kashchiev, A.Borissova, R.B.Hammond, K.J.Roberts, "Dependence of the critical undercooling for crystallization on the cooling rate",*J.Phys.Chem. B* 114(2010)5441

1395. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.
1396. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the measured metastable zone width by the polythermal method", *J.Cryst.Growth* 402(2014)267.
1397. B.Li, Q.Wang, F.Wang, M.Chen, "A Coupled Cellular Automaton-Finite-Element Mathematical Model for the Multiscale Phenomena of Electrosag Remelting H13 Die Steel Ingot", *JOM* 66(2014)1153.
1398. C.J.Brown, Y.C.Lee, Z.K.Nagy, X.Ni, "Evaluation of crystallization kinetics of adipic acid in an oscillatory baffled crystallizer", *Cryst.Eng.Comm.* 16(2014)8008.
1399. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the induction time or metastable zone width data based on turbidity measurements", *Cryst.Eng.Comm.* 16(2014)9743.

(2938)D.Kashchiev, S.Auer, "Nucleation of Amyloid Fibrils", *J.Chem.Phys.* 132(2010)215101

1400. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.
1401. A.Morriss-Andrews, J.E.Shea, "Simulations of Protein Aggregation: Insights from Atomistic and Coarse-Grained Models", *J.Phys.Chem.Lett.* 5(2014)1899.
1402. P.Lopes, M.Xu, M.Zhang, T.Zhou, Y.Yang, C.Wang, E.E.Ferapontova, "Direct Electrochemical and AFM Detection of Amyloid-OI Peptide Aggregation on Basal Plane HOPG", *Nanoscale* 6(2014)7853.

1403. A.K.Buell, C.Galvagnion, R.Gaspar, E.Sparr, M.Vendruscolo, T.P.J.Knowles, S.Linse, C.M.Dobson, "Solution conditions determine the relative importance of nucleation and growth processes in α -synuclein aggregation", *Proc.Natl.Acad.Sci.USA* 111(2014)7671.
1404. A.K.Buell, C.M.Dobson, T.P.J.Knowles, "The physical chemistry of the amyloid phenomenon: thermodynamics and kinetics of filamentous protein aggregation", *Essays Biochem.* 56(2014)11.
1405. W.-F.Xue, "Amyloid Fibril Length Quantification by Atomic Force Microscopy", in: "Bio-nanoimaging: Protein Misfolding and Aggregation", Eds. V.N.Uversky, Y.L.Lyubchenko, Elsevier, Amsterdam, 2014, p.17.

(2939)D.Kashchiev, A.Borissova, R.B.Hammond, K.J.Roberts, "Effect of cooling rate on the critical undercooling for crystallization", *J.Cryst.Growth* 312(2010)698

1406. R.J.Herbert, B.J.Murray, T.F.Whale, S.J.Dobbie, J.D.Atkinson, "Representing time-dependent freezing behaviour in immersion mode ice nucleation", *Atmos.Chem.Phys.* 14(2014)8501.
1407. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the induction time or metastable zone width data based on turbidity measurements", *Cryst.Eng.Comm.* 16(2014)9743.
1408. W.Bogacz, J.Wojcik, "The Metastable Zone of aqueous solutions", *Chemik* 68(2014)200.
1409. V.I.Khvorostyanov, J.A.Curry, "Thermodynamics, Kinetics, and Microphysics of Clouds", Cambridge Univ. Press, New York, 2014.
1410. M.J.W.Povey, "Crystal nucleation in food colloids", *Food Hydrocolloids* 42(Part1)(2014)118.
1411. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the measured metastable zone width by the polythermal method", *J.Cryst.Growth* 402(2014)267.
1412. V.Agarwal, B.Peters, "Solute precipitate nucleation: a review of theory and simulation advances", *Adv.Chem.Phys.* 155(2014)97.
1413. R.J.Herbert, B.J.Murray, T.F.Whale, S.J.Dobbie, "Representing time-dependent freezing behaviour in immersion mode ice nucleation", *Atmos.Chem.Phys.Discuss.* 14(2014)1399.
1414. E.Mielniczek-Brzoska, "Effect of sample volume on the metastable zone width of potassium nitrate aqueous solutions", *J.Cryst.Growth* 401(2014)271.

(2940)O.Kasyutich, A.Ilari, A.Fiohlo, D.Tatchev, A. Hoell, P.Ceci, Silver Ion Incorporation and Nanoparticle Formation inside the Cavity of *Pyrococcus furiosus* Ferritin: Structural and Size-Distribution Analyses, *Journal of the American Chemical Society* 132(2010)3621-3627.

1415. B. Bhushan, Kumar, S. Uday; Matai, Ishita; Sachdev, Abhay; Dubey, Poornima; Gopinath, P, Ferritin Nanocages: A Novel Platform for Biomedical Applications, *Journal of Biomedical Nanotechnology*, 10, 2014, 2950-2976.
1416. S. Deshayes, R. Gref, Synthetic and bioinspired cage nanoparticles for drug delivery, *Nanomedicine*, 9, 2014, 1545-1564.
1417. R. Laghaei, W. Kowallis, D. G. Evans, R. D. Coalson, Calculation of Iron Transport through Human H-chain Ferritin. *The Journal of Physical Chemistry A*, 118, 2014, 7442-7453.
1418. Hsiao-Nung Chen, Deconstruction and reconstruction of a protein capsid, Ph D Thesis, Department of Chemistry, The University of Utah, August 2014
1419. M. Ardini, F. Giansanti, L. D. Leandro, G. Pitari, A. Cimini, L. Ottaviano, M. Donarelli, S. Santucci, F. Angelucci, R. Ippoliti, Metal-induced self-assembly of peroxiredoxin as a tool for sorting ultrasmall gold nanoparticles into one-dimensional clusters, *Nanoscale*, 6, 2014, 8052-8061
1420. D. Passeri, C.Dong, M. Reggente, L. Angeloni, M. Barteri, F. A. Scaramuzza, F. De Angelis, F. Marinellig, F. Antonellid, F. Rinaldih, C. Marianecchih, M. Carafah, A. Sorboi, D. Sordij, I. WCE Arendsj, M. Rossiak, Magnetic force microscopy: Quantitative issues in biomaterials. *Biomatter* 4, no. 1, 2014, e29507, DOI: 10.4161/biom.29507

1421. C. Brito, C. Matias, F. D. González-Nilo, R. K. Watt, A. Yévenes, The C-Terminal Regions Have an Important Role in the Activity of the Ferroxidase, Center and the Stability of Chlorobium tepidum Ferritin. *The protein journal*, 33, 2014, 211-220.
1422. K. Honarmand Ebrahimi, P. L. Hagedoorn, W. R. Hagen, Unity in the Biochemistry of the Iron-Storage Proteins Ferritin and Bacterioferritin. *Chemical reviews*.(2014). DOI: 10.1021/cr5004908

(2941)K. Khristov, J. Czarnecki, Emulsion films stabilized by natural and polymeric surfactants, *Current Opinion in Colloid and Interface Science* 15(2010)324-329.

1423. P. Zhang, H. Wang, X. Liu, X. Shi, J. Zhang, G. Yang, K. Sun, J. Wang, The dynamic interfacial adsorption and demulsification behaviors of novel amphiphilic dendrimers, *Colloids Surf.A Physicochem.Eng.Asp.* 443, 2014, 473-480.
1424. Y.J. Liu, X.R. Liu, H. Li, Y.S. Li, Q. Li, Y. Liu. Effects of Copper Extraction-Stripping Loops on Entrainment in Aqueous Raffinate *Advanced Materials Research* 908, 2014, 18-21
1425. V.Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, *Adv Colloid Interface Sci* 209, 2014, 109-126.

(2942)D. Koleva, N. Boshkov, V. Bachvarov, H. Zhan, J.H.W.de Wit, K.van Breugel, “Application of PEO113-b-PS218 nano-aggregates for improved protective characteristics of composite zinc coatings in chloride containing environment”, *Surface and Coatings Technology*, 204(2010)3760 – 3772.

1426. X. Tai, Z. Du, W. Wang, M. Hou, Y. Zhao, “The one step method preparation of thermal responsive SiO₂/poly-ether composites”, *Powder Technology*, 264, 2014, 273 – 277.
1427. E.M. Fayyad, M.A. Almaadeed, A. Jones, A.M. Abdullah, “Evaluation techniques for the corrosion resistance of self-healing coatings”, *International Journal of Electrochemical Science*, 9, 9, 2014, 4989-5011.

(2943)I.Krastev, Ts.Dobrovolska, Self-organized structure formation and phase identification in electrodeposited silver-cadmium, silver-indium and cobalt-indium alloys, *Journal of Engineering & Processing Management*, 2, 2 (2011), 99-105.

1428. Lacitignola, Deborah, Benedetto Bozzini, and Ivonne Sgura. "Spatio-temporal organization in a morphochemical electrodeposition model: Hopf and Turing instabilities and their interplay." *European Journal of Applied Mathematics*: 1-31, 2014 (DOI: <http://dx.doi.org/10.1017/S0956792514000370>).

(2944)U. Lange, S. Ivanov, V. Lyutov, V.Tsakova, V.M. Mirsky, Voltammetric and conductometric behavior of nanocomposites of polyaniline and gold nanoparticles prepared by layer-by-layer technique. *J. Solid State Electrochem.* 14(2010)1261-1268

1429. A. Fedorczyk, J. Ratajczak, A. Czerwiński, M. Skompska, Selective deposition of gold nanoparticles on the top or inside a thin conducting polymer film, by combination of electroless deposition and electrochemical reduction, *Electrochim. Acta*, 122, 2014, 267-274.
1430. X. Yan, Q. He, X. Zhang, H. Gu, H. Chen, Q. Wang, L. Sun, S. Wei, Z. Guo, Magnetic polystyrene nanocomposites reinforced with magnetite nanoparticles, *Macromolecular Materials and Engineering*, 299, 2014, 485-494.

(2947)E. Mileva, Impact of adsorption layers on thin liquid films, *Current Opinion in Colloid and Interface Science* 15(2010)315-323.

1431. Стефан Стоянов, “Взаимодействие на липополизахариди и четириантенни олигоглицини във водна среда”, Дипломна работа за ОС “магистър”, СУ „Св. Климент Охридски” 2014.

1432. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, *Advances in Colloid and Interface Science*, 209, 2014, 109–126.
1433. J Zawala, K. Malysa D. Kosior, Formation and influence of the dynamic adsorption layer on kinetics of the rising bubble collisions with solution/gas and solution/solid interfaces, - *Advances in colloid and interface science*, 2014 doi:10.1016/j.cis.2014.07.013

(2948)V. Milkova, K. Kamburova, Ts. Radeva, M. Stoimenova, Electrical properties of polyelectrolyte layers adsorbed on colloidal particles at different ionic strength *Langmuir* 26(2010)14488-14493.

1434. V.Dutschk,T.Karapantsios,L.Liggieri,N.McMillan,R.Miller,V.M.Starov,Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, *Adv. Colloid Interface Sci.* 209, 2014, 109-126

(2949)V. Milkova, Ts. Radeva, The effect of ionic strength on electrical properties of polyelectrolyte multilayers on colloidal particles, *J. Phys.: Condens. Matt.* 22(2010)article № 494107(6pp.)

1435. /V.Dutschk,T.Karapantsios,L.Liggieri,N.McMillan,R.Miller,V.M.Starov,Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, *Adv. Colloid Interface Sci.* 209, 2014, 109-126.

E. Mileva, Solid particle in the boundary layer of a rising bubble. *Colloid Polym Sci.* 1990; 268(4):375-383.

1436. Dongyan SHI; Zhikai WANG; Aman ZHANG, Application of lattice Boltzmann method to research bubble interacting with spherical particle, *Inter-noise 2014*, Melbourne, Australia, 16-19 November, 2014, p. 1-9.

E. Mileva, Static structure of polydisperse micellar solutions. *J. Colloid and Interface Science*, 2000; 232(2): 211–218.

1437. Sylvia S. Tzocheva, Krassimir D. Danov, Peter A. Kralchevsky, Gergana S. Georgieva, Albert J. Post, Kavssery P. Ananthapadmanabhan, Solubility limits and phase diagrams for fatty alcohols in anionic(SLES)and zwitterionic(CAPB)micellar surfactant solutions, *Journal of colloid and interface science*, 2014, doi:10.1016/j.jcis.2014.09.042
1438. Силвия Цочева, “Фазово поведение на мастни киселинии алкохоли в смесени мицеларни разтвори на повърхностно-активни вещества”, Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.

V. Tsakova, “Metal-based composites of conducting polymers” in “Nanostructured Conductive Polymers”, ed. by A. Eftekhari, John Wiley & Sons, 2010, ISBN 978-0-470-74585-4, p. 289-340.

1439. A. Fedorczyk, J. Ratajczak, A. Czerwiński, M. Skompska, Selective deposition of gold nanoparticles on the top or inside a thin conducting polymer film, by combination of electroless deposition and electrochemical reduction, *Electrochim. Acta*, 122, 2014, 267-274.
1440. R. Holze, Y.P. Wu, Intrinsically conducting polymers in electrochemical energy technology: Trends and progress, *Intrinsically conducting polymers in electrochemical energy technology: Trends and progress*, *Electrochim. Acta*, 122, 2014, 93-107.

(2952)S. Papadimitriou, S. Armyanov, E. Valova, A. Hubin, O. Steenhaut, E. Pavlidou, G. Kokkinidis, S. Sotiropoulos, Methanol oxidation at Pt-Cu, Pt-Ni, and Pt-Co electrode coatings prepared by a galvanic replacement process, *J. Phys. Chem. C*, 114(2010)5217-5223.

1441. Y.-X. Wang, H.-J. Zhou, P.-C. Sun, T.-H. Chen, Exceptional Methanol Electro-Oxidation Activity by Bimetallic Concave and Dendritic Pt-Cu Nanocrystals Catalysts, *J. Power Sources*, 245, 2014, 663-670.

1442. Y. Huang, Y. Guo, Y. Wang, Ethylene glycol electrooxidation on core-shell PdCuBi nanoparticles fabricated via substitution and self-adsorption processes, *J. Power Sources*, 249, 2014, 9-12.
1443. Y.-Y. Feng, W.-Q. Kong, Q.-Y. Yin, L.-X. Du, Y.-T. Zheng, D.-S. Kong, Platinum catalysts promoted by In doped SnO₂ support for methanol electrooxidation in alkaline electrolyte, *J. Power Sources*, 252, 2014, 156-163.
1444. M. Cao, D Wu, R. Cao, Recent Advances in the Stabilization of Platinum Electrocatalysts for Fuel-Cell Reactions, *ChemCatChem*, 6(1)2014, 26–45.
1445. M. Liao, Y. Wang, G. Chen, H. Zhou, Y. Li, C.-J. Zhong, B. H. Chen, Reducing Pt use in the catalysts for formic acid electrooxidation via nanoengineered surface structure, *J. Power Sources*, 257, 45-51(2014).
1446. B.I. Podlovchenko, Yu. M. Maksimov, K.I. Maslakov, Electrocatalytic properties of Au electrodes decorated with Pt submonolayers by galvanic displacement of copper adatoms, *Electrochim. Acta*, 130, 2014, 351-360.
1447. F. Ren, H. Wang, M. Zhu, W. Lu, P. Yang, Y. Du, Facile fabrication of poly(o-methoxyaniline)-modified graphene hybrid material as a highly active catalyst support for methanol oxidation, *RSC Adv.*, 4,(46), 2014, 24156-24162.
1448. H. Zhao, J. Li, Y. Zhang, H. Jia, L. Mi, Z. Zheng, *Asian J. Chem.*, Copper nanoparticles: Substituted catalysts of expensive platinum for methanol oxidation, 26,2014, 2954-2956.
1449. L. Qiao, M. Liao, S. Chen, Z. Wei, S. Zhang, Synthesis of Pt₃Ni-based functionalized MWCNTs to enhance electrocatalysis for PEM fuel cells, *J. Solid State Electrochem.*, 18,2014, 1893-1898.
1450. J.-N. Zheng, L.-L. He, C. Chen, A.-J. Wang, K.-F. Ma, J.-J. Feng, One-pot synthesis of platinum-cobalt nanoflowers with enhanced oxygen reduction and methanol oxidation, *J. Power Sourc.*, 268,2014, 744–751.
1451. Wouter Maijenburg, “Templated electrodeposition of functional nanostructures: nanowires, nanotubes and nanocubes”, PhD Thesis, University of Twente, Enschede, The Netherlands(2014). ISBN: 978-90-365-3603-5.
1452. H.-J. Yu, Y.-L. Zhang, H. Zhang, Rapid Preparation of PtCu₃ Hollow Structure via One-pot Synthesis., *Chinese J. Inorg. Chem.*, 30, 2014, 1834-1838.
1453. Abu Bakr Ahmed Amine Nassr, “Development of Nanostructured Materials for PEM Fuel Cells Application” Martin Luther University Halle-Wittenberg, Halle (Saale), 2014.
1454. S. Wang, D. Zhang, Y. Ma, H. Zhang, J. Ga, Y. Nie, X.-H. Sun, Aqueous Solution Synthesis of Pt-M(M=Fe, Co, Ni) Bimetallic nanoparticles and their catalysis for the hydrolytic dehydrogenation of ammonia borane, *ACS Appl. Mater. Interfaces*, 6, 2014, 12429-12435.
1455. L. Tamasauskaitė-Tamasiunaite, A. Balciunaite, A. Zabielaite, J. Vaiciuniene, R. Juskenas, A. Selskis, E. Norkus, Ethanol Electro-Oxidation in an Alkaline Medium Using the Nanostructured Platinum-Nickel Electrocatalysts, *ECS Trans.* 59, 2014, 247-257.
1456. J. Kim, J. Lee, S. Kim, Y.-R. Kim, C. K. Rhee, Contrasting Electrochemical Behavior of CO, Hydrogen and Ethanol on Single-Layered and Multiple-Layered Pt Islands on Au Surfaces, *J. Phys. Chem. C*, 118, 2014, 24425–24436.
1457. J. D. Lović, S. I. Stevanović, D. V. Tripkovic, V. M. Jovanović, R. M. Stevanović, A. V. Tripkovic, K. Dj. Popović, Catalytic activities of Pt thin films electrodeposited onto Bi coated glassy carbon substrate toward formic acid electrooxidation, *J. Electroanal. Chem.*, 735, 2014, 1-9.

(2959) A. Stoyanova and V. Tsakova, 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” *J. Solid State Electrochem.*, 14 ,2010, 1947-1955.

1458. B. N. Reddy, A. Pathaniab, S. Ranac, A.K. Srivastavad, M. Deepa, Plasmonic and conductive Cu fibers in poly(3,4-ethylenedioxythiophene)/Cu hybrid films: Enhanced electroactivity and electrochromism, *Solar Energy Materials and Solar Cells*, 121 , 2014, 69-79.

(2960)A.Stoyanova and V. Tsakova Copper-modified poly(3,4ethylenedioxythiophene)layers for selective determination of dopamine in the presence of ascorbic acid II. Role of the characteristics of the metal deposit J. Solid State Electrochem., 14 ,2010, 1957-1965.

1459. K. He, X. Wang, X. Meng, H. Zheng, S.-I. Suye, Amperometric determination of hydroquinone and catechol on gold electrode modified by direct electrodeposition of poly(3,4-ethylenedioxythiophene), *Sensors and Actuators, B*, 193 , 2014, 212-219.

(2961)E Stoyanova, D Guergova, D Stoychev, I Avramova, P Stefanov, Passivity of OC404 steel modified electrochemically with CeO₂-Ce₂O₃ layers in sulfuric acid media, Electrochimica Acta, Volume 55, Issue 5, 1 February 2010, Pages 1725-1732, ISSN: 0013-4686

1460. Aljana Petek, Sebastijan Kovačič, The influence of Ce³⁺ ions on the corrosion rate of stainless steel in acidic solutions of different pH-values, **Green Chemistry Letters and Reviews**, Volume 7, Issue 4, 2014, pp. 337-341, ISSN 1751-8253(Print).

(2966)N. Tsakiris, P. Argyrakis, I. Avramov, Physical Review E 81, 022101(4)(2010)Effect of the transition of networks from floppy to rigid on the diffusion coefficient

1461. Stoica, M; de Macedo, GNBM; Russel, C, *Optical Materials Express*, 4(8):1574-1585; 10.1364/OME.4.001574 AUG 1 2014

(2967)E. Valova, J. Georgieva, S. Armyanov, S. Sotiropoulos, A. Hubin, K. Baert, M. Raes, Morphology, structure and photoelectrocatalytic activity of TiO₂/WO₃ coatings obtained by pulsed electrodeposition onto metal substrates, Journal of the Electrochemical Society, 157(5)(2010)D309-D315.

1462. W. Wei, C. Yu, Q. Zhao, X. Qian, G. Li, Y. Wan, Synergy effect in photodegradation of contaminants from water using ordered mesoporous carbon-based titania catalyst, *Appl. Catalysis B: Environm.*,146, 2014, 151-161.

1463. David Craig Wiggernhorn "Nanostructured Tungsten Trioxide Photoanodesfor Solar Energy Conversion", Thesis for the Degree of Doctor of Philosophy, California Institute of Technology, Pasadena, California, 2014.

1464. 3H. Ali, N. Ismail, A. Hegazy, M. Mekewi, A novel photoelectrode from TiO₂-WO₃ nanoarrays grown on FTO for solar water splitting, *Electrochim. Acta*,150, 2014, 314-319.

(2968)E. Valova, J. Georgieva, S. Armyanov, I. Avramova, J. Dille, O. Kubova, M.-P. Delplancke-Ogletree, Corrosion Behavior of Hybrid Coatings: Electroless Ni-Cu-P and Sputtered TiN, Surface and Coatings Technology, 204(16-17)(2010)2775-2781.

1465. S. Roy, P. Sahoo, *Internat.J. Mechan. & Materials*, Parametric optimization of corrosion and wear of electroless Ni-P-Cu coating using grey relational coefficient coupled with weighted principal component analysis, 1, 2014, 1-15.

1466. Y. Xu, X. Zheng, X. Hu, Y. Yin, T. Lei, Preparation of the electroless Ni-P and Ni-Cu-P coatings on engine cylinder and their tribological behaviors under bio-oil lubricated conditions, *Surf. Coat. Tech.*,58, 2014, 790-796.

1467. S. Roy, P. Sahoo, *Internat. Scholarly Research Notices*, An experimental approach for optimizing coating parameters of electroless Ni-P-Cu coating using artificial bee colony algorithm, 2014, Article ID 976869, 12 pages.

1468. H. El Grini, A. Machrouhi, S. Cherrouf and M. Cherkaoui, Elaboration by electroless and characterization of Ni-Sn-P alloy, *Der Pharma Chemica*, 6, 2014, 294-299.

(2969)J. Zawala, R. Todorov, A. Olszewska, D. Exerowa, K. Malysa, Influence of pH of theBSA solutions on velocity of the rising bubbles and stability of the thin liquid films andfoams, Adsorption 16(2010)423-435.

1469. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, *Adv Colloid Interface Sci* 209, 2014, 109-126.

(2971)V. Bachvarov, M. Peshova, St. Vitkova, N. Boshkov, “Electrochemical obtaining of alloy coatings Zn-Fe-P from sulfate electrolytes”, International Scientific Publications: Materials, Methods & Technologies, 4 1(2010)481 – 497.

1470. S. Fashu, C.D. Gu, X.L. Wang, J.P. Tu, “Structure, composition and corrosion resistance of Zn-Ni-P alloys electrodeposited from an ionic liquid based on choline chloride”, Journal of the Electrochemical Society, 161, 7, 2014, D3011-D3017.

(2973)Ts. Dobrovolska, I. Krastev and A. Zielonka, Pattern formation in Electrodeposited Silver-Cadmium Alloys, ECS Transactions, 25(20)1-9(2010), ISBN 978-1-60768-137-3.

1471. D.A. Lopez-Sauri, L. Veleva, G. Pérez, Analysis of nonlinear galvanostatic oscillations in Ag-Cd alloys electrodeposition, Int.J.Electrochem.Sci. 9(2014)1102-1116.

1472. V.D. Jovic, U.C. Lacnjevac and B.M. Jovic, Chapter: Electrodeposition and Characterization of Alloys and Composite Materials, in, Modern Aspects of Electrochemistry 57, Electrodeposition and surface Finishing, Fundamentals and Applications, ed. by Stojan Djokic, Springer, 2014.

(2984)D.A. Koleva, J. Hu, J.H.W. de Wit, N. Boshkov, Ts. Radeva, V. Milkova, K. van Breugel, Electrochemical performance of low-carbon steel in alkaline model solutions containing hybrid aggregates, ECS Transactions, 28(2010)105-112.

1473. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, Adv. Colloid Interface Sci. 209, 2014, 109-126.

(2989)V. Pashova, L. Mirkova, M. Monev, Electrocatalytic materials of NiCoRe electrodeposited alloy for alkaline water electrolysis, ECS Trans., 25(35)(2010)395-401.

1474. E. Salakhova, The Electrochemical Deposition of Rhenium Chalcogenides from Different Electrolytes, J. Chem. Eng. Chem. Res., 1(3)(2014)185-198.

1475. E.A. Salakhova, A.M. Aliyev, K.F. Ibraghimova, The Obtaining of Thin Films Re-S from Thiocarbamide Electrolytes and Influence of Various Factors on the Alloy Composition, American Chemical Science Journal, 4(3)(2014)337-347.

(2993)V. Stoyanova, A. Shoumkova, J. Fisak, T. Tsacheva, SEM-EDX Identification of Particles from Fog in an Industrially Polluted Region of Czech Republic, Proceedings of International Multidisciplinary Scientific Geo-Conference SGEM 2010, (2010)269–276.

1476. Y. Watanabe, T. Yamaguchi, G. Katata, Aerosol Deposition and the Behavior of Aerosol Particles Deposited on the Foliar Surfaces of Trees in Cool-Temperate Forests in Hokkaido, Earozoru Kenkyu 29(S1), 2014, s176-s182.

(2998)J.W.P. Schmelzer, I.S. Gutzow, O.V. Mazurin, A.I. Priven, S.V. Todorova, B.P. Petroff, Glasses and the Glass Transition, 2011, 408 p. ISBN: 9783527409686

1477. C. B. Nelson, A frustration based model of the structural glass transition in As₂Se₃, J. Non-Cryst. Solids 398-399, 2014, 48-56.

1478. M. Enache, L. Maggini, A. Llanes-Pallas, T.A. Jung, D. Bonifazi, M. Stöhr, Coverage-dependent disorder-to-order phase transformation of a uracil derivative on Ag(111), J. Phys. Chem. C 118, 28, 2014, 15286-15291.

1479. K. Binder, Simulations clarify when supercooled water freezes into glassy structures, Proc. Nat. Acad. Sci. USA 111, 26, 2014, 9374-9375.

1480. J.C. Mauro, C.S. Philip, D.J. Vaughn, M.S. Pambianchi, Glass science in the United States: Current status and future directions, Int. J. Appl. Glass Sci. 5, 1, 2014, 2-15.

1481. N. Bock, M.A. Woodruff, R. Steck, D.W. Hutmacher, B.L. Farrugia, T.R. Dargaville, Composites for delivery of therapeutics: Combining melt electrospun scaffolds with loaded electrospayed microparticles, Macromol. Biosci. 14, 2, 2014, 202-214.

1482. J. O. Valderrama, Myths and realities about existing methods for calculating the melting temperatures of ionic liquids, *Indust. Eng. Chem. Res.* 53, 2, 2014, 1004-1014.
1483. G. Curtzwiler, M. Early, D. Gottschalk, C. Konecki, R. Peterson, S. Wand, J.W. Rawlins, The world of surface coatings is centered around the glass transition temperature, but which one? Part 2, *JCT CoatingsTech* 11, 9, 2014, 40-51.
1484. F. Fleischhaker, A.P. Haehnel, A.M. Misske, M. Blanchot, S. Haremza, C. Barner-Kowollik, Glass-transition-, melting-, and decomposition temperatures of tailored polyacrylates and polymethacrylates: General trends and structure-property relationships, *Macromol. Chem. Phys.* 215, 12, 2014, 1192-1200.
1485. L.S. Everton, A.A. Cabral, Determining the kinetic parameters for isothermal crystallization in a lithium disilicate (Ls₂)glass by OM and DSC, *J. Amer. Ceram. Soc.* 97, 1, 2014, 157-162.
1486. R. Tao, G. Tamas, L. Xue, S.L. Simon, E.L. Quitevis, Thermophysical properties of imidazolium-based ionic liquids: The effect of aliphatic versus aromatic functionality, *J. Chem. Eng. Data* 59, 9, 2014, 2717-2724.

(3015)Mirjana Anić, Nenad Radić, Boško Grbić, Vera Dondur, Ljiljana Damjanović, Dimitar Stoychev, Plamen Stefanov, Catalytic activity of Pt catalysts promoted by MnO_x for n-hexane oxidation, Applied Catalysis B: Environmental, Volume 107, Issues 3–4, 21 September 2011, Pages 327–332

1487. Laura Usón, María Gracia Colmenares, José L. Hueso, Víctor Sebastián, Francisco Balas, Manuel Arruebo, Jesús Santamaría, VOCs abatement using thick eggshell Pt/SBA-15 pellets with hierarchical porosity, **Catalysis Today**, Volume 227, 15 May 2014, Pages 179–186, *Molecular Sieves and Catalysis: Selected papers from CIS-5 Conference*

(3018)S.A. Armyanov, E. Valova, J. Georgieva, New Features in Electroless Deposition of Ternary Coatings on the Base of Ni-P and Co-P, Zeitschrift für Physikalische Chemie, 225(3)(2011)283-295.

1488. J. N. Balaraju, Namrata. Raman; N. T. Manikandanath, Nanocrystalline electroless nickel poly-alloy deposition: incorporation of W and Mo, *Transact. IMF*, 92,2014, 169-176.

(3020) I.Avramov, Interrelation Between The Parameters Of Equations Of Viscous Flow And Chemical Composition Of Glassforming Melts J. Non Cryst, Sol. 357(2011)391–396. ISSN 0022-3093

1489. Kozmidis-Petrovic, AF, *International Journal of Applied Glass Science*, 5(2):193-205; SI 10.1111/ijag.12062 JUN 2014
1490. J. Chovanec, M. Chromčíková, M. Liška, J. Šánělová, J. Málek, Thermodynamic model and viscosity of Ge-S glasses. *Journal of Thermal Analysis and Calorimetry* May 2014, Volume 116, Issue 2, pp 581-588
1491. Chattopadhyay, C., Sangal, S., Mondal, K., *Bulletin of Materials Science* 37(1), pp. 83-93(2014)

(3021)I.Avramov, “dependence Of The Parameters Of Equations Of Viscous Flow On Chemical Composition Of Silicate Melts” J. Non-Cryst. Sol. 357(2011)Pp. 3841-3846, ISSN 0022-3093

1492. Chovanec, J; Chromcikova, M; Liska, M; Shanelova, J; Malek, J, *Journal of Thermal Analysis and Calorimetry*, 116(2):581-588; 10.1007/s10973-013-3318-6 MAY 2014
1493. A.F. Kozmidis-Petrovi-3, Modified angell plot of viscous flow with application to silicate and metallic glass-forming liquids. *International Journal of Applied Glass Science* 5(2014)193-205.

(3023)Polymer brushes under flow and in other out-of-equilibrium conditions, Binder, Kurt; Kreer, Torsten; Milchev, Andrey, Soft Matter Volume: 7 Issue: 16 Pages: 7159-7172 Published: 2011

1494. Interfacial slip on rough, patterned and soft surfaces: A review of experiments and simulations, Lee, Thomas; Charraut, Eric; Neto, Chiara, *Advances in Colloid and Interface Science* Volume: 210 Pages: 21-38 Published: AUG 2014
1495. Switchable Friction Using Contacts of Stimulus-Responsive and Nonresponding Swollen Polymer Brushes, de Beer, Sissi, *Langmuir* Volume: 30 Issue: 27 Pages: 8085-8090 Published: JUL 15 2014
1496. Solvent-induced immiscibility of polymer brushes eliminates dissipation channels de Beer, Sissi; Kutnyanszky, Edit; Schoen, Peter M.; G.J. Vancso, M.H. *Nature Communications* Volume: 5 Article Number: 3781 Published: MAY 2014
1497. Nanoparticle Organization in Sandwiched Polymer Brushes, T. Curk, F.J. Martinez-Veracoechea, D. Frenkel, J. Dobnikar, *Nano Letters* Volume: 14 Issue: 5 Pages: 2617-2622 Published: MAY 2014
1498. Doubly self-consistent field theory of grafted polymers under simple shear in steady state, Suo, Tongchuan; Whitmore, Mark D., *Journal of Chemical Physics* Volume: 140 Issue: 11 Article Number: 114901 Published: MAR 21 2014
1499. Self-Assembly of Nanorod/Nanoparticle Mixtures in Polymer Brushes, D. Zhang, Y. Jin, J. Cheng, Y. Jiang, L. He, L. Zhang, *Journal of Polymer Science Part B-Polymer Physics* Volume: 52 Issue: 4 Pages: 299-309 Published: FEB 15 2014
1500. Mixed brush of chemically and physically adsorbed polymers under shear: Inverse transport of the physisorbed species, Pastorino, C.; Mueller, M., *Journal of Chemical Physics* Volume: 140 Issue: 1 Article Number: 014901 Published: JAN 7 2014
Structure and Response to Flow of the Glycocalyx Layer, E.R. Cruz-Chu, A. Malafeev, T. Pajarskas, I.V. Pivkin, P. Koumoutsakos, *Biophysical Journal* Volume: 106 Issue: 1 Pages: 232-243 Published: JAN 7 2014
1501. Description of interfaces of fluid-tethered chains: advances in density functional theories and off-lattice computer simulations, Sokolowski, S.; Ilnytskyi, J.; Pizio, O., *Condensed Matter Physics* Volume: 17 Issue: 1 Article Number: 12601 Published: 2014
1502. Red blood cell dynamics in polymer brush-coated microcapillaries: A model of endothelial glycocalyx in vitro, Lanotte, Luca; Tomaiuolo, Giovanna; Misbah, Chaouqi; .., *Biomicrofluidics* Volume: 8 Issue: 1 Article Number: 014104 Published: JAN 2014

(3030) Maria Datcheva, Sabina Cherneva, Maria Stoycheva, Roumen Iankov, Dimitar Stoychev, Determination of Anodized Aluminum Material Characteristics by Means of Nano-Indentation Measurements, *Materials Sciences and Applications*, 2(10)(2011)1452-1464, ISSN: 2153-1188(online).

1503. Dey, R. Umarani, H. K. Thota, A. Rajendra, A. K. Sharma, P. Bandyopadhyay, A. K. Mukhopadhyay, Nanoindentation study of MAO coatings developed by dual electrolytes, *Surface Engineering*, 30(12)(2014), pp. 905-912 Print ISSN: 0267-0844 Online ISSN: 1743-2944
1504. Dey, R. Umarani, H. K. Thota, P. Bandyopadhyay, A. Rajendra, A. K. Sharma, A. K. Mukhopadhyay, Corrosion and nanoindentation studies of MAO coatings, *Surface Engineering*, 30(12)(2014), pp. 913-919, Print ISSN: 0267-0844 Online ISSN: 1743-2944
1505. Dey A., R. Uma Rani, H. K. Thota, A. Rajendra, A. K. Sharma, P. Bandyopadhyay, A. K. Mukhopadhyay. Nanomechanical Behaviour of Ceramic Coatings Developed by Micro Arc Oxidation, *Nanoindentation of Brittle Solids*, July 14, 2014 by CRC Press, Chapter 37, page 279, ISBN: 9781466596900
1506. Mindaugas GEDVILAS, Bogdan VOISIA, and Gediminas RAČIUKAITIS, Grayscale Marking of Anodized Aluminium Plate by Using Picosecond Laser and Galvanometer Scanner, *JLMN-Journal of Laser Micro/Nanoengineering*, 9,(3)(2014)267-270, ISSN 1880-0688
1507. Arjun Dey, Anoop Kumar Mukhopadhyay, *Nanoindentation of Brittle Solids*, July 14, 2014 by CRC Press, page 279, ISBN 9781466596900
1508. Медведев И.М., Старцев О.В., “Исследование сезонной неэквивалентности коррозионной агрессивности атмосферы с использованием микромеханических

(3031) Oscillations and self-organization phenomenon during electrodeposition of silver-indium alloy. Experimental study, T. Dobrovolska, P. Zabinski, R. Kowalik, I. Krastev, A. Zielonka, Archives of Metallurgy and Materials, 56(2011)645-659.

1509. Deborah Lacitignola, Benedetto Bozzini, Ivonne Sgura, Spatio-Temporal Organization in a Morphochemical Electrodeposition Model: Analysis and Numerical Simulation of Spiral Waves, *Acta Applicandae Mathematicae*, August 2014, Volume 132, Issue 1, pp 377-389.

1510. Lacitignola, Deborah, Benedetto Bozzini, and Ivonne Sgura. "Spatio-temporal organization in a morphochemical electrodeposition model: Hopf and Turing instabilities and their interplay." *European Journal of Applied Mathematics*: 1-31, 2014 (DOI: <http://dx.doi.org/10.1017/S0956792514000370>).

(3032) Ts. Dobrovolska, I. Krastev, V.D. Jovic, B.M. Jovic, G. Beck, J. Lacnjevac, A. Zielonka, Phase identification in electrodeposited Ag-Cd alloys by ALSV and X-ray diffraction techniques, Electrochimica Acta, 56, 11, 4344-4350(2011).

1511. D.A. Lopez-Sauri, L. Veleza, G. Pérez, Analysis of nonlinear galvanostatic oscillations in Ag-Cd alloys electrodeposition, *Int. J. Electrochem. Sci.* 9(2014)1102-1116.

1512. V.D. Jovic, U.C. Lacnjevac and B.M. Jovic, Chapter: Electrodeposition and Characterization of Alloys and Composite Materials, in *Modern Aspects of Electrochemistry 57, Electrodeposition and surface Finishing, Fundamentals and Applications*, ed. By Stojan Djokic, Springer, 2014.

(3034) Fractional Brownian motion approach to polymer translocation: The governing equation of motion, J.L.A. Dubbeldam, V.G. Rostishvili, A. Milchev, T.A. Vilgis, Physical Review E Volume: 83 Issue: 1 Article Number: 011802 Part: 1 Published: JAN 12 2011

1513. Diffusing Diffusivity: A Model for Anomalous, yet Brownian, Diffusion
Chubynsky, Mykyta V.; Slater, Gary W., *Physical Review Letters* Volume: 113 Issue: 9
Article Number: 098302 Published: AUG 27 2014
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=18&SID=Q1ZWJh7IyfmocKtJepr&page=1&doc=2

1514. Fractional entropy decay and the third law of thermodynamics Wang, Chun-Yang; Zong, Xue-Mei; Zhang, Hong; *Physical Review E* Volume: 90 Issue: 2 Article Number: 022126
Published: AUG 21 2014
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=18&SID=Q1ZWJh7IyfmocKtJepr&page=1&doc=3

1515. Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study, Polson, James M.; Dunn, Taylor R., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 18 Article Number: 184904 Published: MAY 14 2014

(3035) Structural properties of concave cylindrical brushes interacting with free chains, Egorov, S. A.; Milchev, A.; L. Klushin, K. Binde, Soft Matter Volume: 7 Issue: 12 Pages: 5669-5676 Published: 2011

1516. Controlling microtube permeability via grafted polymers and solvent quality, Suo, Tongchuan; Whitmore, Mark D., *Journal of Chemical Physics* Volume: 140 Issue: 11
Article Number: 114902 Published: MAR 21 2014

(3036) J. Georgieva, S. Sotiropoulos, S. Arnyanov, N. Philippidis, I. Poullos, Photoelectrocatalytic activity of bi-layer TiO₂/WO₃ coatings for the degradation of 4-chlorophenol: effect of morphology and catalyst loading, Journal of Applied Electrochemistry, 41(2)(2011)173-181

1517. M. Zhang, C. Yang, W. Pu, Y. Tan, K. Yang, J. Zhang, Liquid phase deposition of WO₃/TiO₂ heterojunction films with high photoelectrocatalytic activity under visible light irradiation, *Electrochim. Acta*, 148, 2014, 180-186.

(3038) Mihaela Georgieva, Maria Petrova, Dimitar Dobrev, Elena Velkova, Dimitar Stoychev, Chemical Deposition of Composite Copper-Diamond Coatings on Non-metallic Substrate, Materiale Plastice, 48, 2011 pp. 269-272, ISSN 0025-5289

1518. J. Georgieva, E. Valova, I. Mintsouli, S. Sotiropoulos, S. Armyanov, A. Kakaroglou, A. Hubin, O. Steenhaut, J. Dille, Carbon-supported Pt(Cu) electrocatalysts for methanol oxidation prepared by Cu electroless deposition and its galvanic replacement by Pt, *Journal of Applied Electrochemistry*, February 2014, Volume 44, Issue 2, pp 215-224

(3038) Georgieva, M., Petrova, M., Dobrev, D., Velkova, E., Stoychev, D., Chemical deposition of composite copper - Diamond coatings on non-metallic substrate: I. Influence of the composition of trilonic electrolyte and of the regime of the deposition on the rate formation of copper matrix, Materiale Plastice, 48(4)(2011)269-272

1519. 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)215-224

S. Nineva, Ts. Dobrovolska, I. Krastev, Electrodeposition of Sb-In, Sb-Co and In-Co alloys, Zastita Materiala (Materials Protection), Beograd, UDC: 620.197(06.22)497.1=861; ISSN 0351-9465, LII, 2, (2011), 80-84.

1520. F. Golgovici, M.L. Mares, A. Cojocar, Electro-deposition of cobalt and cobalt-antimony from non-aqueous media containing ethylene glycol, *Rev Chim* 65(2014)98-104.

1521. В.И. Баканов, Н.В. Нестерова, Н.С. Меленюк, Электрохимическое формирование наноструктур, тонкие пленки In Sb, *Вестн. Ом. Ун-та*, 2014, 3, 33-36.

(3042) T. Hoche, M. Mader, S. Bhattacharyya, G. S. Henderson, T. Gemming, R. Wurth, Christian Russel And Isak Avramov, Crys Teng Comm. (The Royal Soc. Chem.), 2011, 13(7), 2550 - 2556 ISSN 1466-803

1522. Chavoutier, M; Caurant, D; Majerus, O; Boulesteix, R; Loiseau, P; Jousseume, C; Brunet, E; Lecomte, E, *JOURNAL OF NON-CRYSTALLINE SOLIDS*, 384 15-24; SI 10.1016/j.jnoncrysol.2013.03.034 JAN 15 2014 ISSN 0022-3093

1523. Masahiro Ikeda, Masaru Aniya, *Journal of Non-Crystalline Solids* (Impact Factor: 1.6). 07/2013; s 371-372:53-57. DOI:10.1016/j.jnoncrysol.2013.04.034

1524. Dressler, M., Rüdinger, B., Deubener, J., *Journal of Non-Crystalline Solids* 389, pp. 60-65(2014)

1525. Donfeu Tchana, R., Pfeiffer, T., Rüdinger, B., Deubener, J. *Journal of Non-Crystalline Solids* 384, pp. 25-31(2014)

1526. Cormier, L., Cochain, B., Dugué, A., Dargaud, O. *International Journal of Applied Glass Science* 5(2), pp. 126-135(2014)

1527. Beall, G.H., *International Journal of Applied Glass Science* 5(2), pp. 93-103(2014)
Henderson, G. S., de Groot, F. M., & Moulton, B. J. (2014). X-ray absorption near-edge structure (XANES) spectroscopy. *Reviews in Mineralogy and Geochemistry*, 78(1), 75-138.

(3043) R. Harizanova, I. Gugov, C. Russel, D. Tatchev, V.S. Raghuvanshi, A. Hoell, Crystallization of (Fe, Mn)-based nanoparticles in sodium-silicate glasses, Journal of Materials Science 46(2011)7169-7176.

1528. S. Edelman, O. S. Ivanova, E. A. Petrakovskaja, D. A. Velikanov, I. A. Tarasov, Y. V. Zubavichus, N. N. Trofimova, V. I. Zaikovskii. "Formation, characterization and magnetic properties of maghemite γ -Fe₂O₃ nanoparticles in borate glasses." *Journal of Alloys and Compounds*, 624, 2015, 60-67.

(3049)- Karamanova E., Avdeev G., Karamanov A., “New Building Ceramics based on Blast Furnace Slag”, J. European Ceramic Society, 31, 989–998, 2011, ISSN: 0955-2219

1529. Quijorna, N., de Pedro, M., Romero, M., & Andrés, A. Characterisation of the sintering behaviour of Waelz slag from electric arc furnace(EAF)dust recycling for use in the clay ceramics industry. *Journal of environmental management*,(2014). 132, 278-286.
1530. Zhao, L., Li, Y., Zhou, Y., & Cang, D.(2014). Preparation of novel ceramics with high CaO content from steel slag. *Materials & Design*, 64, 608-613.
1531. Choi, I. S., Lee, J. H., Heo, Y. W., & Kim, J. J.(2014). Effect of sintering temperature and P22O5 concentration on the grain shape and grain growth behavior in the ZnO–P< sub> 2</sub>O< sub> 5</sub> system. *Ceramics International*, 40(7), 10143-10147.
1532. Sadik, C., El Amrani, I. E., & Albizane, A.(2014). Recent advances in silica-alumina refractory: A review. *Journal of Asian Ceramic Societies*, 2(2), 83-96.
1533. Teo, P. T., Anasyida, A. S., Basu, P., & Nurulakmal, M. S.(2014). Recycling of Malaysia’s electric arc furnace(EAF)slag waste into heavy-duty green ceramic tile. *Waste Management*, 34(12), 2697-2708.
1534. Mihajlova, I., Radoykova, T., Ivanov, G., Stoyanova, D., Mehandjiev, D., Slag-based materials as catalysts in oxidation reactions, *Journal of Chemical Technology and Metallurgy*, Volume 49, Issue 4, 2014, Pages 391-401, 2014
1535. Hasmaliza, M., Anasyida, A.S., Gan, W.L, Effect of feldspar content on electric arc furnace slag(eafs)added tiles, *Advanced Materials Research*, Volume 1024, 2014, Pages 235-238
1536. Zhou, Y.Y., Yu, L., Cang, D.Q., Li, H., Investigation of the sintering mechanism of steel slag-based ceramics, *Applied Mechanics and Materials*, Volume 584-586, 2014, Pages 1202-1207

(3051)D.Kashchiev, “Note: On the critical supersaturation for nucleation”, J.Chem.Phys. 134 (2011) 196102

1537. M.U.Anby, T.H.Nguyen, Y.Y.Yeap, O.M.Feeney, H.D.Williams, H.Benameur, C.W.Pouton, C.J.H.Porter, “An in vitro digestion test that reflects rat intestinal conditions to probe the importance of formulation digestion vs first pass metabolism in danazol bioavailability”, *Molec.Pharmaceut.*11(2014)4069.
1538. E.Mielniczek-Brzoska, “Effect of sample volume on the metastable zone width of potassium nitrate aqueous solutions”, *J.Cryst.Growth* 401(2014)271.

(3054)D.A. Koleva, N. Boshkov, K.van Breugel, J. H. W. de Wit, “Steel corrosion resistance in model solutions, containing waste materials”, Electrochimica Acta, 58 1(2011)628-646.

1539. S.A. Aspita, M. Ismail, M.Z. Abd Majid, Z.A. Majid, C. Abdullah, J.Mirza, “Green Bambusa Arundinacea leaves extract as a sustainable corrosion inhibitor in steel reinforced concrete”, *Journal of Cleaner Production*, 67, 2014, 139-146.

(3063)A.Milchev, Electrochemical phase formation:some fundamental concepts, J. Solid State, Electrochemistry 15 (2011) 1401-1415; ISSN:14328488

1540. Vladimir A. Isaev, Olga V. Grishenkova Galvanostatic phase formation
JSolidStateElectrochemistry,18(9)(2014)2383-2386,PrintISSN 1432-8488
1541. Bao, D., Gao, P., Shen, X., Chang, C., Wang, L., Wang, Y., Chen, Y., Zhou, X., Sun, S., Li, G., Yang, P. Mechanical ball-milling preparation of fullerene/cobalt core/shell nanocomposites with high electrochemical hydrogen storage ability, *ACS Applied Materials and Interfaces* 6(4)(2014)2902-2909, ISSN: 19448244
1542. C.Santoro, M.Guilizzoni, J.P. Correña Baea, U. Pasaogulari, A.Casalegno, B.Li, S.Babanova, K.Artyushkova,P.Atanassov, The effect of carbón electrode surface properties on bacteria attachment and startup time of microbial fuel cells, *Carbon* 67 (2014) 128, ISSN:00086223

(3068)C. N. Nanev, F. V. Hodzhaoglu, I. L. Dimitrov, Kinetics of insulin crystal nucleation, energy barrier and nucleus size, Crystal Growth and Design, 11 (2011) 196-202

1543. Iwamatsu, Nucleation and growth by diffusion under Ostwald-Freundlich boundary condition, J. Chem. Phys 140(6),2014, 064702

(3076)Thermal degradation of unstrained single polymer chain: Non-linear effects at work, J. Paturej, A. Milchev, V.G. Rostiashvili, T.A. Vilgis , JOURNAL OF CHEMICAL PHYSICS Volume: 134 Issue: 22 Article Number: 224901 Published: JUN 14 2011

1544. Inherent Variability in the Kinetics of Autocatalytic Protein Self-Assembly. J. Szavits-Nossan, K. Eden, R.J. Morris, C.E. Macphee, M.R. Evans, R.J. Allen , PHYSICAL REVIEW LETTERS Volume: 113 Issue: 9 Article Number: 098101 Published: AUG 26 2014

1545. Bifurcations of phase portraits of a Singular Nonlinear Equation of the Second Class, Nguetcho, A. S. Tchakoutio; Li, Jibin; Bilbault, J. M.,COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION Volume: 19 Issue: 8 Pages: 2590-2601 Published: AUG 2014

(3078)Petrova, M., Noncheva, Z., Dobрева, Ek., Electroless deposition of diamond powder dispersed nickel-phosphorus coatings on steel substrate, Transactions of the Institute of Metal Finishing89(2)(2011)89-94

1546. Walsh, F.C., Ponce De Leon, C., A review of the electrodeposition of metal matrix composite coatings by inclusion of particles in a metal layer: An established and diversifying technology, Transactions of the Institute of Metal Finishing, 92(2)(2014)83-98

1547. Balaraju, J.N., Raman, N., Manikandanath, N.T., Nanocrystalline electroless nickel poly-Alloy deposition: Incorporation of w and mo, Transactions of the Institute of Metal Finishing, 92(3)(2014)169-176

(3080)Nenad Radić, Boško Grbić, Ljiljana Rožić, Tatjana Novaković, Srđan Petrović, Dimitar Stoychev, Plamen Stefanov, Effects of organic additives on alumina coatings on stainless steel obtained by spray pyrolysis, Journal of Non-Crystalline Solids, 357,(21)(2011)3592-3597, ISSN: 0022-3093

1548. Elena Ienei, Andreea C. Milea, Anca Duta, Influence of Spray Pyrolysis Deposition Parameters on the Optical Properties of Porous Alumina Films, **Energy Procedia**, 48(2014), 97–104, Proceedings of the 2nd International Conference on Solar Heating and Cooling for Buildings and Industry(SHC 2013)

1549. Г.Б.Атанасова, Дисертация “Доктор”, “Характеризиране на тънки оксидни филми, приложими за каталитични носители”, ИОНХ-БАН(2014)

(3085)A.S. Shoumkova, Magnetic separation of coal fly ash from Bulgarian power plants, Waste Management and Research 10(2011)1078-1089.

1550. Yang, J., Zhao, Y., Zyryanov, V., Zhang, J., Zheng, C., Physical-chemical characteristics and elements enrichment of magnetospheres from coal fly ashes, Fuel 135, 2014, 15-26.

1551. Yao, Z.T., Xia, M.S., Sarker, P.K., Chen, T., A review of the alumina recovery from coal fly ash, with a focus in China, Fuel 120, 2014, 74-85.

1552. Vassileva, P., Detcheva, A., Voykova, D., Removal of Cu(II)from aqueous solutions using fly ashes from Bulgarian power plants, Comptes Rendus de L'Academie Bulgare des Sciences 67(4), 2014, 497-504.

(3090)D. Tatchev, A. Hoell, M. Eichelbaum, K. Rademann, X-ray-assisted formation of gold nanoparticles in soda lime silicate glass: Suppressed Ostwald ripening, Physical Review Letters, 106,(2011), Article number 085702

1553. H. B. Stanley, D. Banerjee, L. van Breemen, J. Ciston, C. H. Liebscher, V. Martis, D. Hermida Merino, A. Longo, P. Pattison, G. W. M. Peters, G. Portale, S. Sen, W. Bras, X-ray irradiation induced reduction and nanoclustering of lead in borosilicate glass, *CrystEngComm*, 16, 2014, 9331-9339.
1554. N. Marquestaut, Y. Petit, A. Royon, P. Mounaix, T. Cardinal, L. Canioni, Three-Dimensional Silver Nanoparticle Formation Using Femtosecond Laser Irradiation in Phosphate Glasses: Analogy with Photography, *Advanced Functional Materials*, 24(37)2014, 5824–5832.
1555. D. Hermida-Merino, G. Portale, P. Fields, R. Wilson, S. P. Bassett, J. Jennings, M. Dellar, C. Gommès, S. M. Howdle, B. C. M. Vrolijk, W. Bras, A high pressure cell for supercritical CO₂ on-line chemical reactions studied with x-ray techniques, *Rev. Sci. Instrum.* 85, 2014, 093905.
1556. H. Watanabe, M. Suzuki, H. Inaoka, N. Ito, Ostwald Ripening in Multiple-Bubble Nuclei, Cornell University Library, arXiv:1407.0102 [physics.flu-dyn], 2014, <http://arxiv.org/pdf/1407.0102v3.pdf>
1557. W. Bras, S. Koizumib, N. J. Terrillc, Beyond simple small-angle X-ray scattering: developments in online complementary techniques and sample environments, *IUCrJ*, 1(6)2014, 478-491.

(3092)A. Tegou, S. Papadimitriou, I. Mintsouli, S. Armyanov, E. Valova, G. Kokkinidis, S. Sotiropoulos, Rotating disc electrode studies of borohydride oxidation at Pt and bimetallic Pt-Ni and Pt-Co electrodes, *Catalysis Today*, 170(2011)126-133.

1558. G. Behmenyar, A. N. Akin, Investigation of carbon supported Pd-Cu nanoparticles as anode catalysts for direct borohydride fuel cell, *J. Power Sources*, 249, 2014, 239-246.
1559. Y. Wang, Y. Zhao, J. Yin, M. Liu, Q. Dong, Y. Su, Synthesis and electrocatalytic alcohol oxidation performance of Pd-Co bimetallic nanoparticles supported on graphene, *Internat. J. Hydr. Ener.*, 39, 2014, 1325-1335.
1560. Y.-Y. Feng, W.-Q. Kong, Q.-Y. Yin, L.-X. Du, Y.-T. Zheng, D.-S. Kong, Platinum catalysts promoted by In doped SnO₂ support for methanol electrooxidation in alkaline electrolyte, *J. Power Sources*, 252, 2014, 156-163.
1561. L. Tamašauskaitė-Tamašiūnaitė, A. Radomskis, K. Antanavičiūtė, J. Jablonskienė, A. Balčiūnaitė, A. Žielienė, L. Naruškevičius, R. Kondrotas, E. Norkus, Graphene supported platinum-cobalt nanocomposites as electrocatalysts for borohydride oxidation, *Intern. J. of Hydr. Ener.*, 39, 2014, 4282-4290.
1562. M. Liao, Y. Wang, G. Chen, H. Zhou, Y. Li, C.-J. Zhong, B. H. Chen, Reducing Pt use in the catalysts for formic acid electrooxidation via nanoengineered surface structure, *J. Power Sources*, 257, 2014, 45-51.
1563. . Wu, S. Mei, X. Cao, J. Zheng, M. Lin, J. Tang, F. Ren, Y. Du, Y. Pan, H. Gu, Facile synthesis of Pt/Pd nanodendrites for the direct oxidation of methanol, *Nanotechnology*, 25, 2014, 195702.
1564. M. M. Rahman, T. L. Church, M. F. Variava, A. T. Harrisa, A. I. Minett, Bimetallic Pt-Ni composites on ceria-doped alumina supports as catalysts in the aqueous-phase reforming of glycerol, *RSC Advances*, 4, 2014, 18951-18960.
1565. L. Tamašauskaitė-Tamašiūnaitė, J. Rakauskas, A. Balčiūnaitė, A. Zabielaite, J. Vaičiūnienė, A. Selskis, R. Juškėnas, V. Pakštas, E. Norkus, Gold-Nickel/Titania Nanotubes as Electrocatalysts for Hydrazine Oxidation, *J. Power Sources*, 272, 2014, 362-370.
1566. V. Kepeniene, L. Tamasauskaite-Tamasiunaite, J. Jablonskiene, J. Vaiciuniene, R. Kondrotas, R. Juskenas, E. Norkus, Investigation of Graphene Supported Platinum-Cobalt Nanocomposites as Electrocatalysts for Ethanol Oxidation, *J. Electrochem. Soc.*, 161, 2014, F1354-F1359.

1567. Balčiūnaitė, S. Lichušina, D. Šimkūnaitė, A. Zabelaitė, A. Selskis, L. Tamašauskaitė-Tamašiūnaitė, E. Norkus, Gold-Zinc-Cobalt Deposited on Titanium as Electrocatalysts for Borohydride Oxidation, *ECSTrans.*, 64, 2014, 1103-1112.
1568. Z. Sukackiene, A. Balciunaite, L. Tamasauskaite-Tamasiunaite, V. Pakstas, A. Selskis, E. Norkus, Development of New Nanostructured Au/Co/Cu and Au/CoB/Cu Catalysts and Studies of Their Catalytic Activity, *ECSTrans.* 59, 2014, 295-306.
1569. V. Kepeniene, J. Jablonskiene, J. Vaiciuniene, R. Kondrotas, R. Juskenas, L. Tamasauskaite-Tamasiunaite, Investigation of Graphene Supported Platinum-Cobalt Nanocomposites as Electrocatalysts for Ethanol Oxidation, *ECSTrans.*, 59, 2014, 217-228.
1570. L. Tamasauskaite-Tamasiunaite, A. Balciunaite, A. Zabelaitė, J. Vaiciuniene, R. Juskenas, A. Selskis, E. Norkus, Ethanol Electro-Oxidation in an Alkaline Medium Using the Nanostructured Platinum-Nickel Electrocatalysts, *ECSTrans.* 59, 2014, 247-257.
1571. Šljukić, J. Milikić, D. M.F. Santos, C.A.C. Sequeira, D. Macciò, A. Saccone, Electrocatalytic performance of Pt-Dy alloys for direct borohydride fuel cells, *J. Power Sourc.*, 72, 2014, 335-343.

(3094) Vessela Tsakova, Svetlozar Ivanov, Ulrich Lange, Aneliya Stoyanova, Vladimir Lyutov, and Vladimir M. Mirsky, Electroanalytical applications of nanocomposites from conducting polymers and metallic nanoparticles prepared by layer-by-layer deposition, Pure Appl. Chem., 83, 2011, 345–358.

1572. B. Endrodi, D. Hursán, L. Petrilla, G. Bencsik, Cs. Visy, A. Chams, N. Maslah, C. Perruchot, M. Jouini, Incorporation of Cobalt-ferrite Nanoparticles Into a Conducting Polymer in Aqueous Micellar Medium: Strategy to Get Photocatalytic Composites, *Acta Chim. Slov.* 61, 2014, 376-381.

(3086) A. Stoyanova, S. Ivanov, V. Tsakova, A. Bund, Au nanoparticle-polyaniline nanocomposite layers obtained through Layer-by-Layer adsorption for the simultaneous determination of dopamine and uric acid Electrochim. Acta, 56, 2011, 3693-3699.

1573. Q. Huang, H. Zhang, S. Hu, F. Li, W. Weng, J. Chen, Q. Wang, Y. He, W. Zhang, X. Bao, A sensitive and reliable dopamine biosensor was developed based on the Au@carbon dots-chitosan composite film, *Biosensors and Bioelectronics*, 52, 2014, 277-280.
1574. C. Wang, J. Du, H. Wang, C. Zou, F. Jiang, P. Yang, Y. Du, A facile electrochemical sensor based on reduced graphene oxide and Au nanoplates modified glassy carbon electrode for simultaneous detection of ascorbic acid, dopamine and uric acid, *Sensors and Actuators, B: Chemical*, 204, 2014, 302-309.
1575. C.S. Santos, R.T. Ferreira, C.M.F. Calixto, J.L. Rufino, J.R. Garcia, S.T. Fujiwara, K. Wohnrath, C.A. Pessoa, The influence of organization of LbL films containing a silsesquioxane polymer on the electrochemical response of dopamine, *J. Appl. Electrochem.* 44, 2014, 1047-1058.
1576. M. Xin, H.L. Lin, J.M. Yang, M.N. Chen, X.Y. Ma, J.Y. Liu, Preparation of Polyaniline/Au-0 Nanocomposites Modified Electrode and Application for Hydrazine Detection *Electroanalysis*, 26, 2014, 2216-2223.

(3060) V. Lyutov, V. Tsakova, A. Bund, Microgravimetric study on the formation and redox behavior of PAMPSA-doped thin polyaniline layers, Electrochim. Acta, 56, 2011, 4803–4811.

1577. O.L. Gribkova, A.A. Nekrasov, V.F. Ivanov, V.I. Zolotarevsky, A.V. Vannikov, Templating effect of polymeric sulfonic acids on electropolymerization of aniline, *Electrochimica Acta*, 122, 2014, 150-158.

(3061) V. Lyutov, V. Tsakova, Palladium-modified polysulfonic acid-doped polyaniline layers for hydrazine oxidation in neutral solutions” *J. Electroanal. Chem.*, 661, 2011, 186-191.

1578. M. Shamsipur, Z. Karimi, M.A. Tabrizi, A. Shamsipur, Electrocatalytic determination of traces of hydrazine by a glassy carbon electrode modified with palladium-gold nanoparticles, *Macromol. Chem. Phys.* 26 , 2014, 1994-2001.
1579. H. Rostami, A. Omrani, A.A. Rostami, A. Emamgholizadeh, Electrooxidation of hydrazine in alkaline medium at carbon paste electrode decorated with poly(P-phenylenediamine/ZnO)nanocomposite , *Ionics*, 2014, DOI:10.1007/s11581-014-1279-9.
1580. A. Krittayavathananon, P. Srimuk, S. Luanwuthi, M. Sawangphruk, alladium Nanoparticles Decorated on Reduced Graphene Oxide Rotating Disk Electrodes toward Ultrasensitive Hydrazine Detection: Effects of Particle Size and Hydrodynamic Diffusion, *Anal. Chem.*, *Anal. Chem.*, 86(2014)12272-12278.

(3059)Vladimir Lyutov, Vessela Tsakova, Silver particles-modified polysulfonic acid-doped polyaniline layers: electroless deposition of silver in slightly acidic and neutral solutions”J. Solid State Electrochem., 15, 2011, 2553-2562.

1581. P. Bober, J. Stejskal, M. Trchová, J. Prokeš, In-situ prepared polyaniline-silver composites: Single- and two-step strategies, *Electrochimica Acta*, 122 , 2014, 259-266.

(3065)Thermal Degradation of Adsorbed Bottle-Brush Macromolecules: A Molecular Dynamics Simulation, Milchev, Andrey; Paturej, Jaroslaw; Rostiashvili, Vakhtang G.; T.A. Vilgis, MACROMOLECULES Volume: 44 Issue: 10 Pages: 3981-3987 Published: MAY 24 2011

1582. Atomistic Structure of Bottlebrush Polymers: Simulations and Neutron Scattering Studies, Z. Zhang, J.M.Y. Carrillo, S.K. Ahn, B. Wu, K. Hong, G.S. Smith, C. Do., *MACROMOLECULES* Volume: 47 Issue: 16 Pages: 5808-5814 Published: AUG 26 2014

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=15&SID=U143CMh04EgSwuvVNpt&page=1&doc=2

1583. Anomalous Dynamics of DNA Hairpin Folding, Frederickx, R.; in't Veld, T.; Carlon, E., *PHYSICAL REVIEW LETTERS* Volume: 112 Issue: 19 Article Number: 198102 Published: MAY 15 2014

(3066)Single-polymer dynamics under constraints: scaling theory and computer experiment, Milchev, Andrey, JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 23 Issue: 10 Article Number: 103101 Published: MAR 16 2011

1584. Self-Entanglement of a Single Polymer Chain Confined in a Cubic Box, Uzcategui, Arturo Valery; Shanbhag, Sachin, *JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS* Volume: 52 Issue: 19 Pages: 1283-1290 Published: OCT 1 2014
1585. Structure and dynamics of confined flexible and unentangled polymer melts in highly adsorbing cylindrical pores, Carrillo, Jan-Michael Y.; Sumpter, Bobby G., *JOURNAL OF CHEMICAL PHYSICS* Volume: 141 Issue: 7 Article Number: 074904 Published: AUG 21 2014
1586. Driven polymer transport through a periodically patterned channel, Ikonen, Timo, *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 23 Article Number: 234906 Published: JUN 21 2014
1587. Driven polymer transport through a periodically patterned channel, Patra, Tarak K.; Singh, Jayant K., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 20 Article Number: 204909 Published: MAY 28 2014
1588. Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study, Polson, James M.; Dunn, Taylor R., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 18 Article Number: 184904 Published: MAY 14 2014
1589. Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study, Makarov, Dmitrii E., *PROTEIN AND PEPTIDE LETTERS* Volume: 21 Issue: 3 Pages: 217-226 Published: MAR 2014

(3083)Schabbach L.M., Andreola F., Karamanova E., Lancellotti I., Karamanov A., Barbieri L., Integrated approach to establish the sinter-crystallization ability of glasses from secondary raw material, 2011, Journal of Non-Crystalline Solids,(1)10-17, ISSN: 0022-3093

1590. Binhussain, M.A., Marangoni, M., Bernardo, E., Colombo, P., Sintered and glazed glass-ceramics from natural and waste raw materials, *Ceramics International*, 2014, 40(2), pp. 3543-3551

1591. Lu, J., Lu, Z., Peng, C., Li, X., & Jiang, H. , 2014. Influence of particle size on sinterability, crystallisation kinetics and flexural strength of wollastonite glass-ceramics from waste glass and fly ash. *Materials Chemistry and Physics*, 148(1), 449-456.

Höche, T., Patzig, C., Gemming, T., Wurth, R., Rüssel, C., Avramov, I., Crystal Growth and Design, (2012)12(3)pp. 1556-1563. “Temporal evolution of diffusion barriers surrounding ZrTiO₄ nuclei in lithia aluminosilicate glass-ceramics”

1592. Chavoutier, M., Caurant, D., Majérus, O., Brunet, E., Lecomte, E., *Journal of Non-Crystalline Solids* 384, pp. 15-24 , 2014

1593. Bocker C, Russel C., Avramov I *Intern. J. of Applied Glass Science* 4 174-181(2013)DOI: 10.1111 /ijag.12033 “Transparent NanoCrystalline Glass-Ceramics by Interface Controlled Crystallization“

1594. Chenu, S., Véron, E., Genevois, C., Matzena, G., Allix, M., *Journal of Materials Chemistry C* (2014)2(46), pp. 10002-10010

1595. Almeida, R.M., Gonçalves, M.C. *Journal of Applied Glass Science* 5(2), pp. 114-125, 2014
M.Ilieva, A. Nakova, V. Tsakova, TiO₂/WO₃ hybrid structures produced through a sacrificial polymer layer technique for pollutant photo- and photoelectrooxidation under ultraviolet and visible light illumination, J. Applied Electrochem., 42 ,2012, 121-129.

1596. R. Dagherir, P. Drogui, N. Delegan, M.A. El Khakani, Removal of chlortetracycline from spiked municipal wastewater using a photoelectrocatalytic process operated under sunlight irradiations, *Science of the Total Environment*, 466-467, 2014, 300-305.

1597. T. Wang, J. Tang, S. Wu, X. Fan, J. He, Preparation of ordered mesoporous WO₃-TiO₂ films and their performance as functional Pt supports for synergistic photo- electrocatalytic methanol oxidation, *J. Power Sources*, 248, 2014, 510 – 516.

1598. T. Linda, S.Muthupoongodi, X.S. Shajan, S. Balakumar, Effect of Chitosan on Photocatalytic Degradation of Congo Red Dye using PVC /TiO₂ Nano Composites under UV Light Irradiation, *Int. J. ChemTech Research*, 6 , 2014, 5378-5381.

(XX)Svetlozar Ivanov, Vessela Tsakova, Andreas Bund,Formation and electroanalytical performance of polyaniline – palladiumnanocomposites obtained via Layer-by-Layer adsorption and electroless metal deposition,Electrochimica Acta, 90 , 2013, 157-165.

1599. X. Chen, X.,B. Guo, P. Hu, Y. Wang, A Non-Enzymatic Hydrogen Peroxide Sensor Based on Gold Nanoparticles/Carbon Nanotube/Self-Doped Polyaniline Hollow Spheres, *Electroanalysis*, 26 , 2014, 1513-1521.

1600. A. Manzoli, F.M. Shimizu, L.A. Mercante, E.C. Paris, O.N. Oliveira, D.S. Correa, L.H.C.Mattoso, Layer-by-layer fabrication of AgCl-PANI hybrid nanocomposite films for electronic tongues, *Phys. Chem. Chem. Phys.*, 16 , 2014, 24275-24281.

V.V. Lyutov, S.D. Ivanov, V.M. Mirsky, V.T. Tsakova, Polyaniline doped with poly(acrylamidomethylpropanesulphonic acid): Electrochemical behaviour and conductive properties in neutral solutions, Chem. Papers 67, 2013, 1002–1011.

1601. M. Trchova, I. Sedenkova, Z. Moravkova, Conducting polymer and ionic liquid: Improved thermal stability of the material - A spectroscopic study, *Polymer Degradation and Stability*, 109 , 2014 27-32

V. Lyutov, I. Efimov, A. Bund, V. Tsakova, Electrochemical polymerization of 3,4-ethylenedioxythiophene in the presence of dodecylsulfate and polysulfonic anions – an acoustic impedance study, *Electrochim. Acta*, 122, 2014, 21– 27.

1602. E. Ngaboyamahina, C. Debiemme-Chouvy, A. Pailleret, Electrodeposition of Polypyrrole in TiO₂ Nanotube Arrays by Pulsed-Light and Pulsed-Potential Methods, *J. Phys. Chem. C*, 118, 2014 26341-26350.

J. Georgieva, TiO₂/WO₃ photoanodes with enhanced photocatalytic activity for air treatment in a polymer electrolyte cell, *Journal of Solid State Electrochemistry*, 16(3)(2012), 1111-1119.

1603. H. F. Liu, B. J. Zheng, A. Q. Dao, S. T. Yi, D. S. Jiang, C. Y. Fu, F. Xiao, One-pot synthesis and photocatalytic activity of SnO₂/TiO₂ nanocomposite thin film, *Materials Research Innovations*, 18(S2)2014, S2-707–S2-710.

J. Georgieva, E. Valova, S. Arnyanov, N. Philippidis, I. Poullos, S. Sotiropoulos, Bi-component semiconductor oxide photoanodes for the photoelectrocatalytic oxidation of organic solutes and vapours: a short review with emphasis to TiO₂-WO₃ photoanodes, *Journal of Hazardous Materials*, 211-212(2012)30–46.

1604. I. A. Castro, W. Avansi Jr. C. Ribeiro, WO₃/TiO₂ Heterostructures Tailored by the Oriented Attachment Mechanism: Insights from their Photocatalytic Properties, *CrystEngComm*, 16, 2014, 1514-1524.

1605. M. Wang, Q. Zeng, B. Zhao, C. Chen, G. Liu, D. He, Controlled Synthesis of Anatase/Tungstite Heterogeneous Nanomaterials Induced by Oxalic Acid, *Catalysis Communicat.*, 48, 2014, 60-64.

1606. G. Kim, E. T. Igunnu, G. Z. Chen, A sunlight assisted dual purpose photoelectrochemical cell for low voltage removal of heavy metals and organic pollutants in wastewater, *Chemical Engineering J.*, 244, 2014, 411-421.

1607. J. L. Roper-Vega, A. M. Meléndez, J. A. Pedraza-Avella, Roberto J. Candal, M. E. Niño-Gómez, *J. Solid State Electrochem.*, Mixed oxide semiconductors based on bismuth for photoelectrochemical applications, 18, 2014, 1963-1971.

1608. I. Sirés, E. Brillas, M. A. Oturan, M. A. Rodrigo, M. Panizza, *Environm. Sci. & Pollution Res.*, Electrochemical advanced oxidation processes: today and tomorrow. A review, 21, 2014, 8336-8367.

1609. Sheng-Lin Yu, Reduction of Cr(VI) in Aqueous Solution by Photoelectrocatalytic Processes, Thesis, Depart. Chem. Engin., Nat. Taiwan Univ. of Sci. & Techn., Taiwan, 2014-06-28.

1610. C. Zhai, M. Zhu, Y. Lu, F. Ren, C. Wang, Y. Du, P. Yang, Reduced graphene oxide modified highly ordered TiO₂ nanotube arrays photoelectrode with enhanced photoelectrocatalytic performance under visible-light irradiation, *Phys. Chem. Chem. Phys.*, 16, 14800-14807, 2014.

1611. J. L. Roper-Vega, A. M. Meléndez, J. A. Pedraza-Avella, Roberto J. Candal, M. E. Niño-Gómez, Mixed oxide semiconductors based on bismuth for photoelectrochemical applications, *J. Solid State Electrochem.*, 18, 2014, 1963-1971.

1612. G. G. Bessegato, T. T. Guaraldo, M. V. Boldrin Zanoni, in Chapter 10 “Enhancement of Photoelectrocatalysis Efficiency by Using Nanostructured Electrodes” in “Modern Electrochemical Methods in Nano, Surface and Corrosion Science” Edited by: Mahmood Aliofkhaezai, INTECH, 2014. ISBN 978-953-51-1586-1.

1613. M. V. B. Zanoni, T. T. Guaraldo, Application of TiO₂/WO₃ bicomponent photoanode under visible light on dye degradation and hydrogen generation, Presentation at 65 ISE Annual Meeting, Lausanne, Switzerland, 31.08-05.09.2014, ise141515.

1614. L. J. Minggu, K. H. Ng, H. A. Kadir, M. Bin Kassim, Bilayer n-WO₃/p-Cu₂O photoelectrode with photocurrent enhancement in aqueous electrolyte photoelectrochemical reaction, *Ceramics International*, 40(10)Part A, 2014, 16015-16021.

1615. A. Leelavathi, G. Madras, N. Ravishankar, New Insights into Electronic and Geometric Effects in the Enhanced Photoelectrooxidation of Ethanol using ZnO nanorod/Ultrathin Au Nanowire Hybrids, *J. Am. Chem. Soc.*, 136,2014, 14445–14455.
1616. S. Ostachavičiute, E.Valatka, Preparation and characterization of WO₃/TiO₂ composite catalysts for the photoreduction of chromium(VI)in aqueous solutions, *Chemija*, 25,2014, 145-153.
1617. M. R. Hasan, Abd S. B. Hamid, C. W. Lai, W. J. Basirun, Z. Z. Chowdhury, Preparation and investigation of photoelectrochemical behaviour of Ce and W co-doped TiO₂ composite film, *Materials Research Innovations*, 18, 2014, S6-241-S6-244.

I. Mintsouli, J. Georgieva, S. Armyanov, E. Valova, G. Adveev, A. Hubin, O. Steenhaut, J. Dille, D. Tsiplakides, S. Balomenou, S. Sotiropoulos, Pt-Cu electrocatalysts for methanol oxidation prepared by partial galvanic replacement of Cu/carbon powder precursors, *Applied Catalysis B: Environmental*, 136–137(2013)160-167.

1618. M. Liao, Y. Wang, G. Chen, H. Zhou, Y. Li, C.-J. Zhong, B. H. Chen, Reducing Pt use in the catalysts for formic acid electrooxidation via nanoengineered surface structure, *J. Power Sources*, 257, 2014, 45-51.
1619. X. Zhao, J. Zhu, L. Liang, C. Li, C. Liu, J. Liao, W. Xing, Biomass-derived N-doped carbon and its application in electrocatalysis, *Applied Catalysis B: Environmental*, 154–155, 2014, 177-182.
1620. I.-C. Chang, T.-T.Chen, M.-H.Yang, H.-T.Chiu, C.-Y. Lee, Self-powered electrochemical deposition of Cu@Ni(OH)₂ nanobelts for high performance pseudocapacitors, *J. Mater. Chem. A*, 2, 2014, 10370-10374.
1621. X. Peng, Y. Zhao, D. Chen, Y. Fan, X. Wang, W. Wang, J. Tian, One-pot synthesis of reduced graphene oxide supported PtCu catalysts with enhanced electro-catalytic activity for the methanol oxidation reaction, *Electrochim. Acta*, 136, 2014, 292-300.
1622. M. Gong, G. Fu, Y. Tang, Y. Chen, T. Lu, Autocatalysis and Selective Oxidative Etching Induced Synthesis of Platinum-Copper Bimetallic Alloy Nanodendrites Electrocatalysts, *ACS Appl. Mater. Interfaces*, 6,2014, 7301–7308.
1623. Q. Lv, J. Chang, W. Xing, C. Liu, *RSC Adv.*, Dispersion-controlled PtCu clusters synthesized with citric acid using galvanic displacement with high electrocatalytic activity toward methanol oxidation, 4, 2014, 32997-33000.
1624. Chi-Young Lee, “Facile Synthesis of Copper and Copper Oxide Nanomaterials for the Applications in Energy Storage Devices”, Doctoral Thesis, Department of Materials Science and Engineering, National Tsinghua University, Taiwan, 2014.
1625. C. Wang, F. Ren, C. Zhai, K. Zhang, B. Yang, D. Bin, H. Wang, P. Yang, Y. Du, Au-Cu-Pt ternary catalyst fabricated by electrodeposition and galvanic replacement with superior methanol electrooxidation activity, *RSC Adv.*, 4, 2014, 57600-57607.
1626. E. Sutter, K. Jungjohann, S. Bliznakov, A. Courty, E. Maisonhaute, S. Tenney, P. Sutter, In situ liquid-cell electron microscopy of silver–palladium galvanic replacement reactions on silver nanoparticles, *Nature Communications*, 5, 2014, Article number: 4946.

I. Mintsouli, J. Georgieva, E. Valova, S. Armyanov, A. Kakaroglou, A. Hubin, O. Steenhaut, J. Dille, A. Papaderakis, G. Kokkinidis, S. Sotiropoulos, 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)435-443.

1627. C. Hu, L. Wang, Y. Zhao, M. Ye, Q. Chen, Z. Feng, L. Qu, Designing Nitrogen-Enriched Echinus-like Carbon Capsules for Highly Efficient Oxygen Reduction Reaction and Lithium Ion Storage, *Nanoscale*, Supporting Information 6,2014, 8002-8009.
1628. Q. Lv, J. Chang, W. Xing, C. Liu, Dispersion-controlled PtCu clusters synthesized with citric acid using galvanic displacement with high electrocatalytic activity toward methanol oxidation, *RSC Adv.*, 4, 2014, 32997-33000.
1629. E. Sutter, K. Jungjohann, S. Bliznakov, A. Courty, E. Maisonhaute, S. Tenney, P. Sutter, In situ liquid-cell electron microscopy of silver–palladium galvanic replacement reactions on silver nanoparticles, *Nature Communications*, 5, 2014, Article number: 4946

B. Geboes, I. Mintsouli, B. Wouters, J. Georgieva, A. Kakaroglou, S. Sotiropoulos, E. Valova, S. Armyanov, T. Breugelmans, A. Hubin, Surface and Electrochemical Characterisation of a Pt-Cu/C Core-Shell Electrocatalyst Prepared by Galvanic Displacement, Applied Catalysis B: Environmental, 150–151, 2014 249–256.

1630. Q. Lv, J. Chang, W. Xing, C. Liu, Dispersion-controlled PtCu clusters synthesized with citric acid using galvanic displacement with high electrocatalytic activity toward methanol oxidation, *RSC Adv.*, 4, 2014, 32997-33000.
1631. C. Wang, F. Ren, C. Zhai, K. Zhang, B. Yang, D. Bin, H. Wang, P. Yang, Y. Du, Au-Cu-Pt ternary catalyst fabricated by electrodeposition and galvanic replacement with superior methanol electrooxidation activity, *RSC Adv.*, 4, 2014, 57600-57607.
1632. E. Westsson, G. J.M. Koper, How to Determine the Core-Shell Nature in Bimetallic Catalyst Particles? *Catalysts*, 4, 2014, 375-396.
1633. J.-J. Du, C. Chen, Y.-L. Gan, R.-H. Zhang, C.-Y. Yang, X.-W. Zhou, Facile one-pot hydrothermal synthesis of Pt nanoparticles and their electrocatalytic performance, *Internat. J. of Hydrogen Energy*, 39, 2014, 17634-17637.

Ivalina Avramova, Sefik Suzer, Desislava Guergova, Dimitar Stoychev, Plamen Stefanov, CeO_x/Al₂O₃ thin films on stainless steel substrate — Dynamical X-ray photoelectron spectroscopy investigations, Thin Solid Films, 536,(1)(2013)63–67, ISSN: 0040-6090

1634. R. Suresh, V. Ponnuswamy, R. Mariappan, Incorporation of Al³⁺ on the rectification properties of ADC thin films, *Ceramics International*, 41,(2), Part B,(2015), 3081–3093, ISSN: 0272-8842
1635. ()Stoychev, D., Corrosion protective ability of electrodeposited ceria layers, *Journal of Solid State Electrochemistry*, 17(2)(2013)497-509, ISSN: 1432-8488.
1636. Min Zuo, Tingting Wu, Kegeng Xu, Shiquan Liu, Degang Zhao, Haoran Geng, Sol–gel route to ceria coatings on AA2024-T3 aluminum alloy, *Journal of Coatings Technology and Research.*, 2014, ISSN: 1547-0091(print version)

Dimitar Stoychev, Nadezhda Koteva, Maria Stoycheva, Elena Velkova, Dimitar Dobrev, Chemical Cobalt Coating of Polyethyleneterephthalate, Materiale Plastice, 49, (1), (2012), pp. 20-29, ISSN 0025-5289

1637. Guoqing Shi, Wenlong Li, Yinxiang Lu, Fe-based surface activator for electroless nickel deposition on polyester: Application to electromagnetic shielding, *Surface and Coatings Technology*, 253(25), 2014 221–226, ISSN: 0257-8972

M.Georgieva, M.Petrova, D.Dobrev, E.Velkova, D.Stoychev“Chemical Deposition of Composite Copper-Diamond Coatings on Non-Metallic Substrate. I. Influence of the hydrodynamic regime on the number of co-deposited diamond layers ”, Materiale Plastice, 49(1)(2012)41-47, ISSN 0025-5289

1638. R. Novac, A.i Sandu, E. Vasilescu, Ion Sandu, Composite Coatings in Copper Matrix with Graphite as Dispersed Phase obtained by Electrodeposition, *REV. CHIM.(Bucharest)*, 65, No. 11, 2014
1639. J. Georgieva, E. Valova, I. Mintsouli, S. Sotiropoulos, S. Armyanov, A. Kakaroglou, A. Hubin, O. Steenhaut, J. Dille, 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, , pp 215-224 ISSN: 0021-891X(Print)1572-8838(Online)

A. Karamanov, A. , Dzhantov, B., Paganelli, M., Sighinolfi, D., Glass transition temperature and activation energy of sintering by optical dilatometry, *Thermochimica Acta*, 10 February(2013), 553 pp. 1-7

1640. Luckabauer, M., Kühn, U., Eckert, J., & Sprengel, W. , 2014. Specific volume study of a bulk metallic glass far below its calorimetrically determined glass transition temperature. *Physical Review B*, 89(17), 174113.

Schabbach L.M., Andreola F., Barbieri L., Lancellotti I., Karamanova E., Rangelov B., Karamanov A., Post-treated incinerator bottom ash as alternative raw material for ceramic manufacturing, 2012, *Journal of the European Ceramic Society*,(11)2843-2852

1641. Agrawal, Parvesh, and Satyendra Nath Misra. "Irreversible Dilatometry as a Tool for Body Composition and Firing Schedule Design in Traditional Ceramics." *Transactions of the Indian Ceramic Society* 73.1 , 2014: 14-21.

1642. Teixeira, S. R., Magalhães, R. S., Arenales, A., Souza, A. E., Romero, M., & Rincón, J. M. , 2014. Valorization of sugarcane bagasse ash: Producing glass-ceramic materials. *Journal of environmental management*, 134, 15-19.

1643. Yuan, B., Song, Y., Sheng, Y., Zheng, K., Huo, Q., Xu, X., & Zou, H. , 2014. Luminescence properties and energy transfer of Ca₂Mg_{0.5}AlSi_{1.5}O₇: Ce³⁺, Eu²⁺ phosphors for UV-excited white LEDs. *Powder Technology*, 253, 803-808.

1644. Teixeira, S. R., Souza, A. E., Carvalho, C. L., Reynoso, V. C., Romero, M., & Rincón, J. M. , 2014. Characterization of a wollastonite glass-ceramic material prepared using sugar cane bagasse ash(SCBA)as one of the raw materials. *Materials Characterization*, 98, 209-214.

1645. Matthew, G. O., and Fatile BO. "GROUNDNUT SHELL ASH AS ALTERNATIVE RAW MATERIAL FOR WHITEWARE BODY FORMULATIONS." *International Journal of Research in Mechanical and Materials Engineering* / 2014; 1(1): 1-5.

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“, *J. Non-Crystalline Solids*, 358, 1486–1490, 2012, ISSN: 0022-3093

1646. Z. B. Liu, Y. B. Zong, H. Y. Ma, W. B. Dai, S. H. Li, Effect of (CaO+MgO)/SiO₂ ratio on crystallization and properties of slag glass-ceramics, *Adv. Appl. Ceram.* 113, 2014, 411-418.

1647. R. C. Breneman and J. W. Halloran, Kinetics of cristobalite formation in sintered silica, *J. Am. Ceram. Soc.* 97, 2014, 2272-2278.

1648. A.G. Sabato, M. Salvo, A. De Miranda, F. Smeacetto, Crystallization behaviour of glass-ceramic sealant for solid oxide fuel cells, *Materials Letters*, In Press, Uncorrected Proof, 2014, doi:10.1016/j.matlet.2014.11.128.

1649. J. Lu, Zh. Lu, Ch. Peng, X. Li, H. Jiang, Influence of particle size on sinterability, crystallisation kinetics and flexural strength of wollastonite glass-ceramics from waste glass and fly ash, *Mater. Chem. Phys.* 148, 2014, 449–456.

1650. C.-B. Shi, M.-D. Seo, H. Wang, J.-W. Cho, S.-H. Kim, Crystallization kinetics and mechanism of CaO–Al₂O₃-based mold flux for casting high-aluminum TRIP steels, *Metall. Mater. Trans. B*, published on line 13 September 2014, doi:10.1007/s11663-014-0180-2.

1651. R. C. Breneman, Phase changes in silica and their impact on mechanical properties in 3-D printed investment casting molds, PhD Thesis, University of Michigan, 2014.

Emilia Stoyanova, Dimitar Stoychev, Corrosion behavior of stainless steels modified by cerium oxides layers, in *Corrosion Resistance*, H. Shih, Ed, 2012, pp. 239-270

1652. Luiz Gustavo Ecco, Waterborne Paint System Based on CeO₂ and Polyaniline Nanoparticles for Anticorrosion Protection of Steel, Doctoral School in Materials Science and Engineering

1653. N. G. Krishna, C. Thinaharan, R. P. George, N. Parvathavarthini and U. Kamachi Mudali. "Surface modification of type 304 stainless steel with duplex coatings for corrosion resistance in sea water environments." **Surface Engineering**. 2014, DOI: <http://dx.doi.org/10.1179/1743294414Y.00000000354>

Polymer Detachment Kinetics from Adsorbing Surface: Theory, Simulation and Similarity to Infiltration into Porous Medium, Paturej, Jaroslaw; Milchev, Andrey; Rostiashvili, Vakhtang G.; Vilgis T.A., MACROMOLECULES Volume: 45 Issue: 10 Pages: 4371-4380 Published: MAY 22 2012

1654. Pulling Single Adsorbed Bottle-Brush Polymers off a Flat Surface: A Monte Carlo Simulation, Hsu, Hsiao-Ping; Paul, Wolfgang; Binder, Kurt, **MACROMOLECULES** Volume: 47 Issue: 1 Pages: 427-437 Published: JAN 14 2014
1655. . Description of interfaces of fluid-tethered chains: advances in density functional theories and off-lattice computer simulations
Sokolowski, S.; Ilnytskyi, J.; Pizio, O. **CONDENSED MATTER PHYSICS** Volume: 17 Issue: 1 Article Number: 12601 Published: 2014

Driven translocation of a polymer: Fluctuations at work, Dubbeldam J.L.A., Rostiashvili V.G., Milchev A., Vilgis T.A., PHYSICAL REVIEW E Volume: 87 Issue: 3 Article Number: 032147 Published: MAR 20 2013

1656. Langevin dynamics simulation on the translocation of polymer through alpha-hemolysin poreSun, Li-Zhen; Luo, Meng-Bo, **JOURNAL OF PHYSICS-CONDENSED MATTER** Volume: 26 Issue: 41 Article Number: 415101 Published: OCT 15 2014
1657. Criteria for minimal model of driven polymer translocation Suhonen, P. M.; Kaski, K.; Linna, R. P. **PHYSICAL REVIEW E** Volume: 90 Issue: 4 Article Number: 042702 Published: OCT 6 2014
1658. Dynamics of polymer ejection from capsid, Linna, R.P., Moisiu, J.E., Suhonen, P.M., Kaski, K., **PHYSICAL REVIEW E** Volume: 89 Issue: 5 Article Number: 052702 Published: MAY 6 2014

Surface Microdynamics Phase Transition and Internal Structure of High-Density, Ultrathin PHEMA-b-PNIPAM Diblock Copolymer Brushes on Silicone Rubber, Jalili, K.; Abbasi, F.; Milchev, A., MACROMOLECULES Volume: 46 Issue: 13 Pages: 5260-5278 Published: JUL 9 2013

1659. Grafting of HEMA onto dopamine coated stainless steel by Co-60-gamma irradiation method, Jin, W., Yang, L., Yang, W., Chen, B., Chen, J., **RADIATION PHYSICS AND CHEMISTRY** Volume: 105 Pages: 57-62 Published: DEC 2014
1660. The effect of heat treatment on the surface structure of polyaniline nanostructured film: An experimental and molecular dynamics approach, Bahramian, Alireza, **APPLIED SURFACE SCIENCE** Volume: 311 Pages: 508-520 Published: AUG 30 2014
1661. Hairy Polymeric Nanocapsules with pH-Responsive Shell and Thermoresponsive Brushes: Tunable Permeability for Controlled Release of Water-Soluble Drugs, Chen, Lei; Peng, Zhiping; Zeng, Zhipeng; Wei, J., Chen, Y., **JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY** Volume: 52 Issue: 15 Pages: 2202-2216 Published: AUG 1 2014

Controlling the Interactions between Soft Colloids via Surface Adsorption Egorov, Sergei A.; Paturej, Jaroslaw; Likos, Christos N.; Milchev A. MACROMOLECULES Volume: 46 Issue: 9 Pages: 3648-3653 Published: MAY 14 2013

1662. Wetting of Macromolecules: From Linear Chain to Soft Colloid-Like Behavior, Glynos, Emmanouil; Chremos, Alexandros; Frieberg, Bradley; Sakellariou, G., Green, P.F., **MACROMOLECULES** Volume: 47 Issue: 3 Pages: 1137-1143 Published: FEB 11 2014

Structure and dynamics of a polymer melt at an attractive surface, De Virgiliis, A.; Milchev, A.; Rostiashvili, V. G.; Vilgis T.A., EUROPEAN PHYSICAL JOURNAL E Volume: 35 Issue: 9 Article Number: 97 Published: SEP 2012

1663. Dynamics of Unentangled cis-1,4-Polyisoprene Confined to Nanoporous Alumina, S. Alexandris, G. Sakellariou, M. Steinhart, G. Floudas, MACROMOLECULES Volume: 47 Issue: 12 Pages: 3895-3900 Published: JUN 24 2014, Y.N. Pandey, A. Brayton, C. Burkhart, G.J. Papakonstantopoulos, M. Doxastakis, Multiscale modeling of polyisoprene on graphite. J Chem Phys 140, 2014

Tension enhancement in branched macromolecules upon adhesion on a solid substrate, Paturej, J.; Kuban, L.; Milchev, A.; Vilgis, T. A., EPL Volume: 97 Issue: 5 Article Number: 58003 Published: MAR 2012

1664. Grafted Polyrotaxanes: Scaling Theory and Molecular Dynamics Simulations Merlitz, Holger; Cui, Wei; Su, Chan-Fei; Wu, Chen-Xu; Sommer, Jens-Uwe MACROMOLECULES Volume: 47 Issue: 12 Pages: 4110-4117 Published: JUN 24 2014

Ejection of a Polymer Chain from a Nanopore: Theory and Computer Experiment Milchev, A.; Klushin, L.; Skvortsov, A.; Binder, K., MACROMOLECULES Volume: 43 Issue: 16 Pages: 6877-6885 Published: AUG 24 2010

1665. Trans location of Diblock Copolymer through Compound Channels: A Monte Carlo Simulation Study Wang, Chao; Chen, Ying-Cai; Zhang, Shuang; Luo, Meng-Bo MACROMOLECULES Volume: 47 Issue: 20 Pages: 7215-7220 Published: OCT 28 2014

1666. Dynamics of polymer ejection from capsid, Linna, R. P.; Moio, J. E.; Suhonen, P. M.; Suhonen, P. M.; Kaski, K., PHYSICAL REVIEW E Volume: 89 Issue: 5 Article Number: 052702 Published: MAY 6 2014

1667. Entropic force on granular chains self-extracting from one-dimensional confinement, Jeng, Pei-Ren; Chen, KuanHua; Hwang, Gwo-jen, JOURNAL OF CHEMICAL PHYSICS Volume: 140 Issue: 2 Article Number: 024912 Published: JAN 14 2014

Computer Simulation Studies of Chain Dynamics in Polymer Brushes, Reith, Daniel; Milchev, Andrey; Virnau, Peter; Binder K., MACROMOLECULES Volume: 45 Issue: 10 Pages: 4381-4393 Published: MAY 22 2012

1668. Macromolecular Diffusion through a Polymer Matrix with Polymer-Grafted Chained Nanoparticles, C.C. Lin, K. Ohno, N. Clarke, K.I. Winey, R.J. Composto, MACROMOLECULES Volume: 47 Issue: 15 Pages: 5357-5364 Published: AUG 12 2014

1669. Ligand Engineering of Polymer Nanocomposites: From the Simple to the Complex, Y. Li, T.M. Krentz, L. Wang, B.C. Benicewicz, L.S. Schadler, ACS APPLIED MATERIALS & INTERFACES Volume: 6 Issue: 9 Pages: 6005-6021 Published: MAY 14 2014

1670. Studying Twin Samples Provides Evidence for a Unique Structure-Determining Parameter in Simplified Industrial Nanocomposites, G.P. Baeza, A.C. Genix, C. Degrandcourt, J. Gummel, A. Mujtaba, K. Saalwächter, T. Thurn-Albrecht, M. Couty, J, ACS MACRO LETTERS Volume: 3 Issue: 5 Pages: 448-452 Published: MAY 2014

Comment on 'Anomalous dynamics of unbiased polymer translocation through a narrow pore' and other recent papers by D Panja, G Barkema and R Ball, Dubbeldam, J. L. A.; Milchev, A.; Rostiashvili, V. G.; Vilgis, T. A., JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 21 Issue: 9 Article Number: 098001 Published: MAR 4 2009

1671. Polymer translocation into a confined space: Influence of the chain stiffness and the shape of the confinement, Zhang, Kehong; Luo, Kaifu, JOURNAL OF CHEMICAL PHYSICS Volume: 140 Issue: 9 Article Number: 094902 Published: MAR 7 2014

L. Ilieva, T. Tabakova, G. Pantaleo, I. Ivanov, R. Zanella, D. Paneva, N. Velinov, J.W. Sobczak, W. Lisowski, G. Avdeev, A.M. Venezia, 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), 76-90, ISSN: 0926860X

1672. Lakshmanan, P., Park, J.E., Park, E.D., Recent Advances in Preferential Oxidation of CO in H₂ Over Gold Catalysts, , 2014 Catalysis Surveys from Asia, 18(2-3), pp. 75-88. ISSN: 1571-1013
1673. Niu, T., Zhao, W.W., Liu, G.L., Cao, A., Zhang, L.H., Liu, Y., The graphene-meso-macroporous SiO₂ supported Pt-Ni alloy nanocatalyst for preferential oxidation of CO in H₂-rich gases, , 2014 International Journal of Hydrogen Energy, 39(33), pp. 18929-18939. ISSN: 0360-3199
1674. Niu, T., Liu, G.L., Liu, Y., Preparation of Ru/graphene-meso-macroporous SiO₂ composite and their application to the preferential oxidation of CO in H₂-rich gases, , 2014 Applied Catalysis B: Environmental, 154-155, pp. 82-92. ISSN: 0926-3373

Desislava Goranova, Georgi Avdeev, Rashko Rashkov, Electrodeposition and characterization of Ni–Cu alloys, Surface & Coatings Technology, 240, , 2014, 204–210, ISSN: 0257-8972

1675. Rao, V.R., Hegde, A.C., Magnetically induced codeposition of Ni-Cd alloy coatings for better corrosion protection, Industrial and Engineering Chemistry Research, 53(13), , 2014 5490-5497

Yankova, L., Milenov, T.I., Rafailov, P.M., Avdeev, G.V., Veleva, M.N., Gosopodinov, M.M., Magnetic and electric field characterization of La₂CoMnO₆ crystals doped with Pb, Crystal Research and Technology, 48(7),(2013), 439-445. ISSN: 0232-1300

1676. Katari, V., Achary, S.N., Deshpande, S.K., Babu, P.D., Sinha, A.K., Salunke, H.G., Gupta, N., Tyagi, A.K., Effect of annealing environment on low-temperature magnetic and dielectric properties of EuCo_{0.5}Mn_{0.5}O₃, Journal of Physical Chemistry C, 118(31), , 2014, 17900-17913. ISSN: 1932-7447

Georgieva, M., Razkazov, N., Petrova, M., Avdeev, G., Dobrev, D., Preparation of chemical dispersion coatings with included boron nitride, Transactions of the Institute of Metal Finishing, Volume 91, Issue 2,(2013), 96-100, ISSN: 0020-2967

1677. Jelinek, T.W., Advances in surface finishing - A review of the international literature in 2012/2013, Galvanotechnik, Volume 105, Issue 1, , 2014, 18-37, ISSN:0016-4232
1678. Walsh, F.C., Ponce De Leon, C., A review of the electrodeposition of metal matrix composite coatings by inclusion of particles in a metal layer: An established and diversifying technology, Transactions of the Institute of Metal Finishing, Volume 92, Issue 2, , 2014, 83-98, ISSN: 0020-2967

A. Shoumkova, Zeolites for waste water and wastewater treatment: An overview., Research Bulletin of the Australian Institute of High Energetic Materials. Special Issue on Global Fresh Water Shortage 2(2011)10-70.

1679. T.C.R. Bertolini, Estudo comparativo sobre a adsorcao de diferentes classes de corantes em zeolitas de cinzas de carvao: modelagem cinetica e de equilibrio(Comparative study on the adsorption of different classes of dyes in zeolites of coal fly ashes: kinetic and equilibrium modelling), PhD Thesis, Autarquia associada a univervidade de Sao Paolo, Sao Paolo, 2014.
1680. K. Kędziora, J. Piasek, J. Szerement, A. Ambrożewicz-Nita, Use of modified zeolite in environmental engineering. A review., Proc. Int. Sci. Conf. Modern technologies of zeolite

tuff usage in industry, 20-22 May 2014, Lviv, Ukraine, Ed. З.Я. Бліхарський, Національний університет “Львівська політехніка”, 2014, 61-67.

1681. D. A. Fungaro, T. V. da Silva Reis, Use of sugarcane straw ash for zeolite synthesis, *International Journal of Energy and Environment* 5(5), 2014, 559-566.
1682. D. A. Fungaro, S.I. Borrely, M. Higa, Removal of color from industrial effluents by adsorption using unmodified and surfactant-modified zeolite from cyclone ash, *Periodico Tche Quimica* 11(22), 2014, 7-14.
1683. Y.W. Chiang, R.M. Santos, J. Elsen, B. Meesschaert, J.A. Martens, T. Van Gerven, Towards zero-waste mineral carbon sequestration via two-way valorization of ironmaking slag, *Chemical Engineering Journal* 249, 2014, 260-269.

T.Iamboliev, S. Valkanov, S.Atanasova, Microstructure embrittlement of hard metal–steel joint obtained under induction heating diffusion bonding, *Int. Journal of Refractory Metals and Hard Materials* 37(2013)90–97.

1684. T. Maeda, Y. Kobayashi, Y. Yasuda, T. Morita, Metal-metal bonding properties of copper oxide nanoparticles, *e-Journal of Surface Science and Nanotechnology*, 12, 2014, 105-108.
1685. 2. U. Çavdar, E. Yalamac, I. Gülsahin, Effects of surface finishing on the mechanical properties of induction welded iron based sintered compacts, *Materialpruefung/Materials Testing*, 56, 10, 2014, 852-857.

A. Shoumkova, V. Stoyanova, Zeolites formation by hydrothermal alkali activation of coal fly ash from thermal power station "Maritsa 3", Bulgaria, *Fuel* 103(2013)533-541.

1686. T.C.R. Bertolini, Estudo comparativo sobre a adsorcao de diferentes classes de corantes em zeolitas de cinzas de carvao: modelagem cinetica e de equilibrio (Comparative study on the adsorption of different classes of dyes in zeolites of coal fly ashes: kinetic and equilibrium modelling), PhD Thesis, Autarquia Associada a Univeridade de Sao Paolo, Sao Paolo, 2014.
1687. J. Xie, Z. Wang, D. Wu, H. Kong, Synthesis and properties of zeolite/hydrated iron oxide composite from coal fly ash as efficient adsorbent to simultaneously retain cationic and anionic pollutants from water, *Fuel* 116, 2014, 71-76.
1688. S.S. Bukhari, J. Behin, H. Kazemian, S. Rohani, A comparative study using direct hydrothermal and indirect fusion methods to produce zeolites from coal fly ash utilizing single-mode microwave energy, *Journal of Materials Science* 49, 2014, 8261-8271.
1689. G. Buema, S. M. Cimpeanu, D. M. Sutiman, R. Teodorescu, D. Burghila, R. C. Ciocinta, D. Bucur, M. Harja, Copper removal: Kinetic and thermodynamic study, *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering* 3, 2014, 1-4.
1690. R. D. Bucur, C. Cimpeanu, M. Barbuta, G. Ciobanu, G. Paraschiv, M. Harja, A comprehensive characterization of ash from Romania thermal power plant, *Journal of Food, Agriculture and Environment* 12(22), 2014, 943-949.

T.Iamboliev, S. Valkanov, S.Atanasova, Microstructure embrittlement of hard metal–steel joint obtained under induction heating diffusion bonding, *Int. Journal of Refractory Metals and Hard Materials* 37(2013)90–97.

1691. T. Maeda, Y. Kobayashi, Y. Yasuda, T. Morita, Metal-metal bonding properties of copper oxide nanoparticles, *e-Journal of Surface Science and Nanotechnology*, 12, 2014, 105-108.
1692. 2. U. Çavdar, E. Yalamac, I. Gülsahin, Effects of surface finishing on the mechanical properties of induction welded iron based sintered compacts, *Materialpruefung/Materials Testing*, 56, 10, 2014, 852-857.

D.Kashchiev, "Magic Cluster Sizes in Nucleation of Crystals", *Cryst.Growth Des.* 12 (2012) 3257

1693. V. Agarwal, B. Peters, “Solute precipitate nucleation: a review of theory and simulation advances”, *Adv.Chem.Phys.* 155, 201497.

S.Auer, P.Ricchiuto, D.Kashchiev,"Two-step Nucleation of Amyloid Fibrils: Omnipresent or Not?","J.Mol.Biol.422(2012)723

1694. H.R.Patel, A.S.Pithadia, J.R.Brender, C.A.Fierke, A.Ramamoorthy, "In Search of Aggregation Pathways of IAPP and other Amyloidogenic Proteins: Finding Answers Through NMR Spectroscopy", *J.Phys.Chem.Lett.* 5, 20141864.
1695. M.Mulaj, J.Foley, M.Muschol, "AMYLOID OLIGOMERS AND PROTOFIBRILS, BUT NOT FILAMENTS, SELF-REPLICATE FROM NATIVE LYSOZYME", *J.Amer.Chem.Soc.* 136, 20148947.
1696. Y.Zou, W.Hao, H.Li, Y.Gao, Y.Sun, G.Ma, "New Insight into Amyloid Fibril Formation of Hen Egg White Lysozyme Using a Two-Step Temperature-Dependent FTIR Approach", *J.Phys.Chem. B* 118, 20149834.
1697. A.Saric, Y.C.Chebaro, T.P.J.Knowles, D.Frenkel, "Crucial role of nonspecific interactions in amyloid nucleation", *Proc.Natl.Acad.Sci.USA* 111, 201417869.

M.Michailov, D.Kashchiev, "Thermal rupture of monatomic metal nanowires", J. Phys. Conf. Ser. 398(2012)012010

1698. Y.I.Shilyaeva, V.V.Bardushkin, S.A.Gavrilov, M.V.Silibin, "Melting temperature of metal polycrystalline nanowires electrochemically deposited into the pores of anodic aluminum oxide", *Phys.Chem.Chem.Phys.* 16, 201419394.

R.Cabriolu, D.Kashchiev, S.Auer,"Breakdown of nucleation theory for crystals with stronglanisotropic interactions between molecules",J.Chem.Phys.137(2012)204903

1699. T.O.Mason, D.Y.Chirgadze, A.Levin, L.Adler-Abramovich, E.Gazit, T.P.J.Knowles, A.K.Buell, "Expanding the Solvent Chemical Space for Self-Assembly of Dipeptide Nanostructures", *ACS Nano* 8, 20141243.
1700. M.J.W.Povey, "Crystal nucleation in food colloids", *Food Hydrocolloids* 42(Part1), 2014118.

D.Kashchiev, R.Cabriolu, S.Auer,"Confounding the paradigm: peculiarities of amyloid fibril nucleation",J.Am.Chem.Soc.135(2013)1531

1701. V.A.Borzova, K.A.Markossian, B.I.Kurganov, "Relationship between the initial rate of protein aggregation and the lag period for amorphous aggregation", *Intern.J.Biol.Macromol.* 68, 2014144.
1702. B.C.Barnes, B.C.Knott, G.T.Beckham, D.T.Wu, A.K.Sum, "Reaction Coordinate of Incipient Methane Clathrate Hydrate Nucleation.", *J.Phys.Chem. B* 118, 201413236.

D.Kashchiev, "Protein fibrillation due to elongation and fragmentation of initially appeared fibrils: a simple kinetic model", J.Chem.Phys. 139(2013)105103

1703. V.A.Borzova, K.A.Markossian, B.I.Kurganov, "Relationship between the initial rate of protein aggregation and the lag period for amorphous aggregation", *Intern.J.Biol.Macromol.* 68, 2014144.
1704. S.Bancelin, E.Decenciere, V.Machairas, C.Albert, T.Coradin, M.-C.Schanne-Klein, C.Aime, "Fibrillogenesis from Nanosurfaces: Multiphoton Imaging and Stereological Analysis of Collagen 3D Self-assembly Dynamics", *Soft Matter* 10, 20146651.

D.M.Camacho-Corzo, A.Borissova, R.B.Hammond, D.Kashchiev, K.J.Roberts, K.Lewtas, I.More, "Nucleation mechanism and kinetics from the analysis of polythermal crystallisation data: methyl stearate from kerosene solutions", Cryst.Eng.Comm. 16, 2014974

1705. L.D.Shiau, T.S.Lu, "A model for determination of the interfacial energy from the induction time or metastable zone width data based on turbidity measurements", *Cryst.Eng.Comm.* 16, 20149743.
1706. Y.Ma, Z.Wang, J.Zhou, "Effects of Impurity Ions on the Metastable Zone Width of Phosphoric Acid in Tributyl Phosphate", *J.Chem.Eng.Data* 59, 20142909.

1707. S.J.Coles, T.L.Threlfall, "A perspective on a century of inert seeds in crystallisation", Cryst.Eng.Comm. 16, 20144355.

Critical adsorption of a single macromolecule in polymer brushes, Milchev, Andrey; Egorov, Sergei A.; Binder, Kurt, SOFT MATTER Volume: 10 Issue: 32 Pages: 5974-5990 Published: 2014

1708. Surface-Initiated Polymer Brushes in the Biomedical Field: Applications in Membrane Science, Biosensing, Cell Culture, Regenerative Medicine and Antibacterial Coatings, Krishnamoorthy, Mahentha; Hakobyan, Shoghik; Ramstedt, Madeleine, CHEMICAL REVIEWS Volume: 114 Issue: 21 Pages: 10976-11026 Published: NOV 12 2014

Force spectroscopy of polymer desorption: theory and molecular dynamics simulations, Paturej, Jaroslaw; Dubbeldam, Johan L. A.; Rostiashvili, Vakhtang G.; Milchev, Andrey; Vilgis, Thomas A., SOFT MATTER Volume: 10 Issue: 16 Pages: 2785-2799 Published: 2014

1709. Interaction of Single-Stranded DNA with Curved Carbon Nanotube Is Much Stronger Than with Flat Graphite, Iliafar, Sara; Mittal, Jeetain; Vezenov, Dmitri; Jagota, Anand, JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 136 Issue: 37 Pages: 12947-12957 Published: SEP 17 2014

Arm Retraction Dynamics and Bistability of a Three-Arm Star Polymer in a Nanopore Milchev, A.; Mueller, M.; Klushin, L., MACROMOLECULES Volume: 47 Issue: 6 Pages: 2156-2168 Published: MAR 25 2014

1710. Polymer segregation under confinement: Free energy calculations and segregation dynamics simulations Polson, James M.; Montgomery, Logan G., JOURNAL OF CHEMICAL PHYSICS Volume: 141 Issue: 16 Article Number: 164902 Published: OCT 28 2014

Adsorption of Oligomers and Polymers into a Polymer Brush Formed from Grafted Ring Polymers, Milchev, Andrey; Binder, Kurt, MACROMOLECULES Volume: 46 Issue: 21 Pages: 8724-8731 Published: NOV 12 2013

1711. Double-helical polymer brushes consisting of helical polyacetylene main chain and helical poly(n-hexyl isocyanate) side chains, X. Liu, H. Zhang, R. Cheng, J. Deng, Y. Wu, SYNTHETIC METALS Volume: 195 Pages: 167-176 Published: SEP 2014

Efficient Separation of Long Polymer Chains by Contour Length and Architecture Klushin, L.; Milchev, A.; Skvortsov, A., ACS MACRO LETTERS Volume: 2 Issue: 10 Pages: 879-881 Published: OCT 2013

1712. Supramolecular assemblies of azobenzene-beta-cyclodextrin dimers and azobenzene modified polycaprolactones, a, Hengchang; Wang, Feng; Li, Wenfeng; Ma, Yuan; Yao, Xiaoqiang; Lu, Dedai; (Yang, Yaoxia; Zhang, Zhe; Lei, Ziqiang, JOURNAL OF PHYSICAL ORGANIC CHEMISTRY Volume: 27 Issue: 9 Pages: 722-728 Published: SEP 2014

Polymer brushes on flat and curved surfaces: How computer simulations can help to test theories and to interpret experiments, Binder, K.; Milchev, A., JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS Volume: 50 Issue: 22 Pages: 1515-1555 Published: NOV 15 2012

1713. Adsorption-induced changes of the structure of the tethered chain layers in a simple fluid, Borowko, M.; Sokolowski, S.; Staszewski, T., JOURNAL OF CHEMICAL PHYSICS Volume: 140 Issue: 23 Article Number: 234904 Published: JUN 21 2014

1714. Jamming Rheology of Model Cementitious Suspensions Composed of Comb-Polymer Stabilized Magnesium Oxide Particles, Murray, Lisa R.; Erk, Kendra A., JOURNAL OF APPLIED POLYMER SCIENCE Volume: 131 Issue: 12 Published: JUN 15 2014

1715. Exponential time differencing methods with Chebyshev collocation for polymers confined by interacting surfaces, Liu, Yi-Xin; Zhang, Hong-Dong, JOURNAL OF CHEMICAL PHYSICS Volume: 140 Issue: 22 Article Number: 224101 Published: JUN 14 2014

1716. Controlling microtube permeability via grafted polymers and solvent quality, Suo, Tongchuan; Whitmore, Mark D., JOURNAL OF CHEMICAL PHYSICS Volume: 140 Issue: 11 Article Number: 114902 Published: MAR 21 2014
1717. Computer simulation of heterogeneous nucleation of colloidal crystals at planar walls Block, B. J.; Deb, D.; Schmitz, F.; EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS Volume: 223 Issue: 3 Pages: 347-361 Published: FEB 2014
1718. Surface-Initiated Polymerization as an Enabling Tool for Multifunctional(Nano-) Engineered Hybrid Materials, Hui, Chin Ming; Pietrasik, Joanna; Schmitt, Michael; CHEMISTRY OF MATERIALS Volume: 26 Issue: 1 Special Issue: SI Pages: 745-762 Published: JAN 14 2014 Ripple structures of mixed homopolymer brushes grafted on cylindrical surfaces: controlling the orientation of the pattern by attuning the substrate curvatures, Ma, Xin; Chen, Cangyi; Yang, Yingzi; ,SOFT MATTER Volume: 10 Issue: 32 Pages: 6005-6013 Published: 2014
1719. Fluorescent Nanodiamonds with Bioorthogonally Reactive Protein-Resistant Polymeric Coatings, Rehor, Ivan; Mackova, Hana; Filippov, Sergey K.; . CHEMPLUSCHEM Volume: 79 Issue: 1 Pages: 21-24 Published: JAN 2014
1720. Exploiting end group functionalization for the design of antifouling bioactive brushes Kuzmyn, A. R.; Pereira, A. de los Santos; Pop-Georgievski, O.; ,POLYMER CHEMISTRY Volume: 5 Issue: 13 Pages: 4124-4131 Published: 2014
1721. Description of interfaces of fluid-tethered chains: advances in density functional theories and off-lattice computer simulations, Sokolowski, S.; Ilnytskyi, J.; Pizio, O. CONDENSED MATTER PHYSICS Volume: 17 Issue: 1 Article Number: 12601 Published: 2014
1722. Nanotribology of biopolymer brushes in aqueous solution using dissipative particle dynamics simulations: an application to PEG covered liposomes in a theta solvent Gama Goicochea, A.; Mayoral, E.; Klapp, J.; . SOFT MATTER Volume: 10 Issue: 1 Pages: 166-174 Published: 2014
1723. Observing the Mushroom-to-Brush Transition for Kinesin Proteins, Dumont, Emmanuel L. P.; Belmas, Herve; Hess, Henry, LANGMUIR Volume: 29 Issue: 49 Pages: 15142-15145 Published: DEC 10 2013
1724. Adhesion and Friction Properties of Polymer Brushes on Rough Surfaces: A Gradient Approach, Ramakrishna, Shivaprakash N.; Espinosa-Marzal, Rosa M.; Naik, Vikrant V., LANGMUIR Volume: 29 Issue: 49 Pages: 15251-15259 Published: DEC 10 2013
1725. Binary mixed homopolymer brushes grafted on nanorod particles: A self-consistent field theory study, Ma, Xin; Yang, Yingzi; Zhu, Lei JOURNAL OF CHEMICAL PHYSICS Volume: 139 Issue: 21 Article Number: 214902 Published: DEC 7 2013

Capillary Filling in Microchannels with Wall Corrugations: A Comparative Study of the Concus-Finn Criterion by Continuum, Kinetic, and Atomistic Approaches, Chibbaro, S.; Costa, E.; Dimitrov, D. IDiotallevi, F; Milchev, A; Palmieri, D; Pontrelli, G; Succi, SLANGMUIR Volume: 25 Issue: 21 Pages: 12653-12660 Published: NOV 3 2009

1726. Switchable imbibition in nanoporous gold, Xue, Yahui; Markmann, Juergen; Duan, Huiling; Weissmueller, Joerg; Huber, Patrick, COMMUNICATIONS Volume: 5 Article Number: 4237 Published: JUL 2014
1727. Phaseguides as tunable passive microvalves for liquid routing in complex microfluidic networks, Yildirim, Ender; Trietsch, Sebastiaan J.; Joore, Jos, LAB ON A CHIP Volume: 14 Issue: 17 Pages: 3334-3340 Published: 2014

Pulling an adsorbed polymer chain off a solid surface Bhattacharya, S.; Milchev, A.; Rostiashvili, V. G.; Vilgis, TA, EUROPEAN PHYSICAL JOURNAL E Volume: 29 Issue: 3 Pages: 285-297 Published: JUL 2009

1728. Adsorption-induced changes of the structure of the tethered chain layers in a simple fluid, Borowko, M.; Sokolowski, S.; Staszewski, T., JOURNAL OF CHEMICAL PHYSICS Volume: 140 Issue: 23 Article Number: 234904 Published: JUN 21 2014

1729. Coil-bridge transition in a single polymer chain as an unconventional phase transition: Theory and simulation, Klushin, Leonid I.; Skvortsov, Alexander M.; Polotsky, Alexey A.; Hsu, Hsiao-Ping; Binder, Kurt, *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 20 Article Number: 204908 Published: MAY 28 2014

1730. Pulling Single Adsorbed Bottle-Brush Polymers off a Flat Surface: A Monte Carlo Simulation, Hsu, Hsiao-Ping; Paul, Wolfgang; Binder, Kurt *MACROMOLECULES* Volume: 47 Issue: 1 Pages: 427-437 Published: JAN 14 2014

C. Nanev, F. Hodzhaoglu, Temperature control of protein crystal nucleation, *Crystal Research and Technology* 47(2012)1195-1200.

1731. S. Khurshid, Porous nucleating agents for protein crystallization, *Nature protocols* 9, 2014, 1621-1633.

Absorption/expulsion of oligomers and linear macromolecules in a polymer brush, Milchev, A.; Egorov, S. A.; Binder, K., *JOURNAL OF CHEMICAL PHYSICS* Volume: 132 Issue: 18 Article Number: 184905 Published: MAY 14 2010

1732. Description of interfaces of fluid-tethered chains: advances in density functional theories and off-lattice computer simulations, Sokolowski, S.; Ilnytskyi, J.; Pizio, O. *CONDENSED MATTER PHYSICS* Volume: 17 Issue: 1 Article Number: 12601 Published: 2014

The escape transition of a polymer: A unique case of non-equivalence between statistical ensembles, Dimitrov, D. I.; Klushin, L. I.; Skvortsov, A.; Milchev, A.; Binder, K. *EUROPEAN PHYSICAL JOURNAL E* Volume: 29 Issue: 1 Pages: 9-25 Published: MAY 2009

1733. On the equivalence of thermodynamics ensembles for flexible polymer chains, Manca, Fabio; Giordano, Stefano; Palla, Pier Luca; Cleri, Fabrizio, *PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS* Volume: 395 Pages: 154-170 Published: FEB 1 2014

1734. Entropic force on granular chains self-extracting from one-dimensional confinement, Jeng, Pei-Ren; Chen, KuanHua; Hwang, Gwo-jen; Cho, Ethan Y; Lien, Chenhsin; To, Kiwing; Chou, Y. C., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 2 Article Number: 024912 Published: JAN 14 2014

Formation of surface micelles from adsorbed asymmetric block copolymers: A Monte Carlo study, Milchev, A.; Binder, K, *LANGMUIR* Volume: 15 Issue: 9 Pages: 3232-3241 Published: APR 27 1999

1735. Multiblock Copolymer Solutions in Contact with a Surface: Self-Assembly, Adsorption, and Percolation, Hugouvioux, Virginie; Kolb, Max, *LANGMUIR* Volume: 30 Issue: 41 Pages: 12400-12410 Published: OCT 21 2014

Forced translocation of a polymer: Dynamical scaling versus molecular dynamics simulation, Dubbeldam, J. L. A.; Rostiashvili, V. G.; Milchev, A.; Vilgis, TA, *PHYSICAL REVIEW E* Volume: 85 Issue: 4 Article Number: 041801 Part: 1 Published: APR 4 2012

1736. Criteria for minimal model of driven polymer translocation, Suhonen, P. M.; Kaski, K.; Linna, R. P., *PHYSICAL REVIEW E* Volume: 90 Issue: 4 Article Number: 042702 Published: OCT 6 2014

1737. Driven polymer transport through a periodically patterned channel, Ikonen, Timo, *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 23 Article Number: 234906 Published: JUN 21 2014

1738. . Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study, Polson, James M.; Dunn, Taylor R., *JOURNAL OF CHEMICAL PHYSICS* Volume: 140 Issue: 18 Article Number: 184904 Published: MAY 14 2014

1739. Dynamics of polymer ejection from capsid, Linna, R. P.; Moisiu, J. E.; Suhonen, P. M.; PHYSICAL REVIEW E Volume: 89 Issue: 5 Article Number: 052702 Published: MAY 6 2014,

Semiflexible polymers grafted to a solid planar substrate: Changing the structure from polymer brush to "polymer bristle", Milchev, A.; Binder, Kurt, JOURNAL OF CHEMICAL PHYSICS Volume: 136 Issue: 19 Article Number: 194901 Published: MAY 21 2012

1740. Ligand Engineering of Polymer Nanocomposites: From the Simple to the Complex, Li, Ying; Krentz, Timothy M.; Wang, Lei; ACS APPLIED MATERIALS & INTERFACES Volume: 6 Issue: 9 Pages: 6005-6021 Published: MAY 14 2014

D. Kosior, J. Zawala, R. Todorov, D. Exerowa, K. Malysa "Bubble bouncing and stability of liquid films formed under dynamic and static conditions from n-octanol solutions" Colloids Surf. A, 460 , 2014 391–400

1741. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, Adv Colloid Interface Sci 209, 2014, 109-126.

D. Arabadzhieva, B. Soklev, E. Mileva, Amphiphilic nanostructures in aqueous solutions of triethylene glycol monododecyl ether, Colloids and Surfaces A, 419,(2013), 194-200

1742. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, Advances in Colloid and Interface Science, 209, 2014, 109–126.

E. Mileva, B. Soklev, V. Michailova, D. Arabadzhieva, Functionalized core-shell nanoparticles for medical applications, Chapter 8 in "Inhaler devices: Fundamentals, design and drug delivery, (P. Prokopovich, Ed.), Woodhead publishing Ltd., Cambridge, UK,(2013), 146-169.

1743. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, Advances in Colloid and Interface Science, 209, 2014, 109–126.

K. Engelhardt, M. Lexis, G. Gochev, C. Konnerth, R. Miller, N. Willenbacher, W. Peukert, B. Braunschweig, Ph effects on the molecular structure of β -lactoglobulin modified air-water interfaces and its impact on foam rheology , Langmuir, 29(2013)11646-11655.

1744. T. Del Castillo-Santaella, E. Sanmartín, M.A. Cabrerizo-Vílchez, J.C. Arboleya, J. Maldonado-Valderrama, Improved digestibility of β -lactoglobulin by pulsed light processing: A dilatational and shear study, Soft Matter 10, 2014, 9702-9714.

Dan, G. Gochev, J. Krägel, E.V. Aksenenko, V.B. Fainerman, R. Miller, Interfacial rheology of mixed layers of food proteins and surfactants, Curr. Opin. Colloid Interface Sci. 18(2013)302-310.

1745. F.J. Lech, P. Steltenpool, M.B.J. Meinders, S. Sforza, H. Gruppen, P.A. Wierenga, Identifying changes in chemical, interfacial and foam properties of β -lactoglobulin-sodium dodecyl sulphate mixtures, Colloids Surf. A Physicochem. Eng. Asp. 462, 2014, 34-44.

1746. T. Huang, C. Cao, Z.L. Liu, Y. Li, F.P. Du, Interaction of pepsin-[C16mim]Br system: Interfacial dilatational rheology and conformational studies, Soft Matter 10, 2014, 6810-6819.

1747. R.D. Stanimirova, K.G. Marinova, K.D. Danov, P.A. Kralchevsky, E.S. Basheva, S.D. Stoyanov, E.G. Pelan, Competitive adsorption of the protein hydrophobin and an ionic surfactant: Parallel vs sequential adsorption and dilatational rheology, Colloids Surf. A Physicochem. Eng. Asp. 457, 2014, 307-317.

1748. G.M. Radulova, K.D. Danov, P.A. Kralchevsky, J.T. Petkov, S.D. Stoyanov, Shear rheology of hydrophobin adsorption layers at oil/water interfaces and data interpretation in terms of a viscoelastic thixotropic model, Soft Matter 10, 2014, 5777-5786.

1749. Q. Zhao, D. Liu, Z. Long, B. Yang, M. Fang, W. Kuang, M. Zhao, Effect of sucrose ester concentration on the interfacial characteristics and physical properties of sodium caseinate-stabilized oil-in-water emulsions, *Food Chem.* 151, 2014, 506-513.
1750. L. Seta, N. Baldino, D. Gabriele, F.R. Lupi, B.D. Cindio, Rheology and adsorption behaviour of β -casein and β -lactoglobulin mixed layers at the sunflower oil/water interface, *Colloids Surf.A Physicochem.Eng.Asp.* 441, 2014, 669-677.
1751. K. Engelhardt, W. Peukert, B. Braunschweig, Vibrational sum-frequency generation at protein modified air-water interfaces: Effects of molecular structure and surface charging, *Curr.Opin.Colloid Interface Sci.* 19, 2014, 207-215.
1752. D. Langevin, Surface shear rheology of monolayers at the surface of water, *Adv Colloid Interface Sci* 207, 2014, 121-130.
1753. B.A. Noskov, Protein conformational transitions at the liquid-gas interface as studied by dilational surface rheology, *Adv Colloid Interface Sci* 206, 2014, 222-238.

G.Gochev, I.Retzlaff, E.V.Aksenenko, V.B.Fainerman, R. Miller, Adsorption isotherm and equation of state for β -Lactoglobulin layers at the air/water surface, *Colloids Surfaces A* 422(2013)33-38.

1754. R.D. Stanimirova, K.G. Marinova, K.D. Danov, P.A. Kralchevsky, E.S. Basheva, S.D. Stoyanov, E.G. Pelan, Competitive adsorption of the protein hydrophobin and an ionic surfactant: Parallel vs sequential adsorption and dilatational rheology, *Colloids Surf.A Physicochem.Eng.Asp.* 457, 2014, 307-317.
1755. D. Anderl, M. Bauer, C. Rauh, U. Rde, A. Delgado, Numerical simulation of adsorption and bubble interaction in protein foams using a lattice Boltzmann method, *Food.Funct.* 5, 2014, 755-763.

I.Terziyski, L. Alexandrova, I. Stoineva, N. Christova, R. Todorov, R. Cohen, Foam and wetting films from rhamnolipids produced by *Pseudomonas aeruginosa* BN10, *Colloids Surf. A Physicochem.Eng.Asp.* 460, 2014299-305.

1756. M. Irfan-Maqsood, M. Seddiq-Shams, Rhamnolipids: Well-Characterized Glycolipids with Potential Broad Applicability as Biosurfactants, *Ind.Biotechnol.* 10, 2014, 285-291.
1757. L. Jiang, C. Shen, X. Long, G. Zhang, Q. Meng, Rhamnolipids elicit the same cytotoxic sensitivity between cancer cell and normal cell by reducing surface tension of culture medium, *Appl.Microbiol.Biotechnol.* 98, 2014, 10187-10196.

A. Javadi, N. Mucic, M. Karbaschi, J.Y. Won, M. Lotfi, A. Dan, V. Ulaganathan, G. Gochev, A.V. Makievski, V.I. Kovalchuk, N.M. Kovalchuk, J. Krgel, R. Miller, Characterization methods for liquid interfacial layers, *Eur. Phys. J.: Special Topics* 222(2013)7-29.

1758. L.M.C. Sagis, K.N.P. Humblet-Hua, S.E.H.J. Van Kempen, Nonlinear stress deformation behavior of interfaces stabilized by food-based ingredients, *J Phys Condens Matter* 26, 2014, 464105.
1759. L.M.C. Sagis, E. Scholten, Complex interfaces in food: Structure and mechanical properties, *Trends Food Sci.Technol.* 37, 2014, 59-71.

B. Johansson, R. Pugh, L. Alexandrova, Flotation de-inking studies using model hydrophobic particles and non-ionic dispersants, *Colloid and Surfaces*, 170:(2-3),(2000), 217-229.

1760. J. Qu, X. Tao, H. He, X. Zhang, N. Xu, B. Zhang, Synergistic effect of surfactants and a collector on the flotation of a low-rank coal, *Int.J.Coal Preparation Utilization* 35, 2014, 14-24.

M. Kaisheva, L. Alexandrova, I. Spasov and B. Diakova, Investigation of thin films formed from liposome suspension on quartz substrate, *Colloid and Surfaces B*, 20,(2001), 137-143.

1761. R. Ran, Y. Liu, H. Gao, Q. Kuang, Q. Zhang, J. Tang, K. Huang, X. Chen, Z. Zhang, Q. He, Enhanced gene delivery efficiency of cationic liposomes coated with PEGylated hyaluronic

acid for anti P-glycoprotein siRNA: A potential candidate for overcoming multi-drug resistance, *Int.J.Pharm.* 477, 2014, 590-600.

1762. S.I. Karakashev, K.W. Stöckelhuber, R. Tsekov, C.M. Phan, G. Heinrich, Tribology of thin wetting films between bubble and moving solid surface, *Adv Colloid Interface Sci* 210, 2014, 39-46.

D. Lazarov, L. Alexandrova and I. Nishkov, Effect of temperature on the kinetics of the froth flotation, *Min. Engng.* 7(1994) 503-509.

1763. G. K. N. Subasinghe, B. Albijanic, Influence of the propagation of three phase contact line on flotation recovery, *Minerals Eng* 57, 2014, 43-49.

Z.Lalchev, R.Todorov, Y.Christova, P. Wilde, A.Mackie, D.Clark, Molecular mobility in the monolayers of foam films stabilized by porcine lung surfactant. *Biophys. J.* 71(1996)2591-2601.

1764. Ася Цанова, „Свойства и механизми на действие на невропептиди с моделни мембрани с оглед приложението им във фармацията” Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.

Z.Lalchev, Y.Christova, R.Todorov, V.Alexandrov, P.Stoichev, R.Petkov, Alterations of biochemical and physicochemical quantities of pulmonary lavages attending halothane and penthrane treatment in rats, *Appl. Cardiopulmon. Pathophysiol.* 4(1992)315-322.

1765. Ася Цанова, „Свойства и механизми на действие на невропептиди с моделни мембрани с оглед приложението им във фармацията” Дисертация за ОНС „доктор”, СУ „Св. Климент Охридски” 2014.

J. Czarnecki, P. Tchoukov, T. Dabros, Z. Xu, Role of asphaltenes in stabilization of water in crude oil emulsions, *Can. J. Chem. Eng.*, 91,(2013), 1365-1371.

1766. S. Das, T. Thundat, S.K. Mitra, Asphaltene migration and separation in presence of aggregation in electroosmotic-electrophoretic microchannel transport, *Colloids Surf.A Physicochem.Eng.Asp.* 446, 2014, 23-32.

1767. S.Zheng, H. S. Fogler, Fundamental Investigation of Wax Diffusion Characteristics in Water-in-Oil Emulsion. *Ind. Eng. Chem. Res.* 2014, DOI: 10.1021/ie501955e.

J. Czarnecki, P. Tchoukov, T. Dabros, Possible role of asphaltenes in stabilization of water in crude oil emulsions, *Energy & Fuels*, 26(2012)5782-5786,

1768. D. Harbottle, Q. Chen, K. Moorthy, L. Wang, S. Xu, Q. Liu, J. Sjoblom, Z. Xu, Problematic stabilizing films in petroleum emulsions: Shear rheological response of viscoelastic asphaltene films and the effect on drop coalescence, *Langmuir* 30, 2014, 6730-6738.

1769. J.J. Adams, Asphaltene adsorption, a literature review, *Energy Fuels* 28, 2014, 2831-2856.

1770. C. Yan, J. Han, C. Huang, T. Mu, Demulsification of water-in-oil emulsions for the petroleum industry by using alternating copolymers. *Energy Technology* 2014, n/a, DOI: 10.1002/ente.201400012.

1771. Chuan Qin, PhD Thesis, On Organic Liquid Crystal Transfer from Bitumen-Rich to Water-Rich Phases: A Combined Laboratory and SAGD Field Study, University of Alberta, Edmonton, Canada, 2014.

P. Tchoukov, J. Czarnecki, T. Dabros, Study of water-in-oil thin liquid films: Implications for the stability of petroleum emulsions, *Colloids Surf. A*, 372(2010), 15-21.

1772. J.Sjöblom, , and S. Sébastien, Oil films: Some basic concepts, in oil spill remediation: colloid chemistry-based principles and solutions, Edited by P. Somasundaran, P. Patra, R. Farinato, and K. Papadopoulos. John Wiley & Sons, Inc. 2014, 127-159, ISBN:9781118206706.

H. Hoffmann, K. Kamburova, H. Maeda, Ts. Radeva, Investigation of pH dependence of poly(acrylic acid) conformation by means of electric birefringence, Colloids Surf. A 354(2010)61-64.

1773. A.B. Fradj, S.B. Hamouda, H. Ouni, L. Gzara, A. Hafiane, Removal of emthylene blue from aqueous solutions by poly(acrylic acid) and poly(ammonium acrylate) assisted ultrafiltration, Separation and Purification Technology 133, 2014, 76-81.

M. Mitov, E. Chorbadzhiyska, R. Rashkov, Y. Hubenova, Novel nanostructured electrocatalysts for hydrogen evolution reaction in neutral and weak acidic solutions, International Journal of Hydrogen Energy 21(2012)16522-16526.

1774. Pierozynski, T. Mikolajczyk, I. M. Kowalski, Hydrogen evolution at catalytically-modified nickel foam in alkaline solution, Journal of Power Sources 271, 2014, 231-238.

1775. P. Li, Z. Jin, D. Xiao, A one-step synthesis of Co-P-B/rGO at room temperature with synergistically enhanced electrocatalytic activity in neutral solution, Journal of materials Chemistry A 2(43), 2014, 18420-18427.

1776. Y.J. Chai, Y.M. Dong, H.X. Meng, Y.M. Huang, N. Wang, Hydrogen generation by aluminum corrosion in cobalt(II) chloride and nickel(II) chloride aqueous solution, Energy 68, 2014, 204-209.

1777. Y. Jia, J. Shen, H., Meng, Y. Chai, N. Wang, Hydrogen generation using a ball-milled Al/Ni/NaCl mixture, Journal of Alloys and Compounds 588, 2014, 259-264.

1778. H-Y. Dai, X-L. Song, Z-H. Liang, Y. Zhao, Progress of cathode catalysts electrolysis cell, Xiandai Huagong/Modern Chemical Industry 34,(3), 2014, 40-44.

1779. Q. Wang, L. Huang, X. Yu, X. Quan, Y. Li, G. Fan, Assessment of five different cathode materials for Co(II) reduction with simultaneous hydrogen evolution in microbial electrolysis cells, International Journal of Hydrogen Energy 40,(1), 2014, 184-196.

1780. T. Mikolajczyk, M. Turemko, B. Pierozynski, Ethanol oxidation reaction at Pd-modified nickel foam obtained by PVD method in alkaline solution, Journal of Electroanalytical Chemistry 735, 2014, 32-35.

1781. B. Pierozynski, T. Mikolajczyk, M. Turemko, E. Czerwosz, M. Kozłowski, Hydrogen evolution reaction at Pd-modified carbon fibre in 0.1 M NaOH, International Journal of Hydrogen Energy 40,(4), 2014, 1795-179.

I. Krastev I, Dobrovolska T, Lačnjevac U, Nineva S, Pattern formation during electrodeposition of indium-cobalt alloy, J Solid State Electrochem 16:3449-3456,(2012).

1782. Cojocar, A., Mares, M. L., Prioteasa, P., Anicai, L., & Visan, T., Study of electrodeposition and deposition of cobalt thin films from ionic liquid analogues based on choline chloride. Journal of Solid State Electrochemistry, , 2014, 1-14

V. Milkova, K. Kamburova, R. Cameron, Ts. Radeva, Complexation of ferric oxide particles with pectins of ordered and random distribution of charged units, Biomacromolecules 13(2012)138-145.

1783. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, Adv. Colloid Interface Sci. 209, 2014, 109-126.

V. Milkova, Ts. Radeva, Effect of ionic strength and molecular weight on electrical properties and thickness of polyelectrolyte bi-layers, Colloids Surf. A: Physicochem. Eng. Aspects 424(2013)52-58.

1784. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, Adv. Colloid Interface Sci. 209, 2014, 109-126.

1785. L.Y. Ng, A.W. Mohammad, C.Y. Ng, C.P. Leo, R. Rohani, Development of nanofiltration membrane with high salt selectivity and performance stability using polyelectrolyte multilayers, *Desalination* 351, 2014, 19-26.
1786. J. Borges, J.F. Mano, Molecular Interactions Driving the Layer-by-Layer Assembly of Multilayers, *Chem. Rev.* 114, 2014, 8883-8942.

V. Milkova, K. Kamburova, Ts. Radeva, Nanocolloids of indomethacin prepared using sonication and subsequent encapsulation with polysaccharide films, *Colloids Surf. B: Biointerfaces* 108(2013)279-284.

1787. V. Dutschk, T. Karapantsios, L. Liggieri, N. McMillan, R. Miller, V.M. Starov, Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications, *Adv. Colloid Interface Sci.* 209, 2014, 109-126.
1788. A.N. Ilinskaya, M.A. Dobrovolskaia, Immunosuppressive and anti-inflammatory properties of engineered nanomaterials, *British J. Pharmacology* 171, 2014, 3988-4000.

D. Goveia, J. Paulo Pinheiro, V. Milkova, A. H. Rosa, H. P. van Leeuwen, Dynamics and heterogeneity of Pb(II) binding by SiO₂ nanoparticles in aqueous dispersion, *Langmuir* 27(2011)7877-7883.

1789. E. Rotureau, Analysis of metal speciation dynamics in clay minerals dispersion by stripping chronopotentiometry techniques, *Colloid Surface A.* 441, 2014, 291-294.
1790. K. Zielińska, Solid phase microextraction speciation analysis of triclosan in aqueous media containing sorbing nanoparticles, *Environmental Chemistry* 11, 2014, 72-76.
1791. B. Charbonneau, J.K. Kleijn, M.A. Cohen Stuart, Subtle charge balance controls surface-nucleated self-assembly of designed biopolymers, *ACS Nano* 8, 2014, 2328-2335.
1792. H. Pera, T.M. Nolte, F.A.M. Leermakers, J.M. Kleijn, Coverage and disruption of phospholipid membranes by oxide nanoparticles, *Langmuir* 2014, DOI: 10.1021/la503413w.

Sv. Hristova, A. Zhivkov, B. Atanasov, Electrostatics of horse heart Cytochrome C and Montmorillonite monolamellar plate, *Biotechnol. & Biotechnol. Equipment* 23(2009)568-571.

1793. P. Sashi, U. M. Yasin, H. Balasubramanian, M. U. Sree, D. Ramakrishna, A. K. Bhuyan, Preferential Water Exclusion in Protein Unfolding, *The Journal of Physical Chemistry B* 118, 2014, 717-723.

A.M. Zhivkov, Electric properties of carboxymethyl cellulose, in: Theo G.M. van de Ven, (Ed.) *Cellulose - Fundamental Aspects, InTech, Rijeka, 2013, 1-31.*

1794. S. Tuurala, O.V. Kaukonen, L. von Hertzen, J. Uotila, A. Vaari, M. Bergelin, M. Smolander, Scale-up of manufacturing of printed enzyme electrodes for enzymatic power source applications, *Journal of Applied Electrochemistry*, 44, 2014, 881-892.

M. Stubbe, A. Gyurova, J. Gimsa, 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(2013)562-574.

1795. W. Liu, Y. Ren, J. Shao, H. Jiang, Y. Ding, A theoretical and numerical investigation of travelling wave induction microfluidic pumping in a temperature gradient, *Journal of Physics D: Applied Physics* 47, 2014, 075501-075516.

M. Zhivkov, S. P. Stoylov, V. Goltzev, Electro-optical study of some electrical and geometrical characteristics of chloroplasts from peas, *Physiology of plants (Bulgaria)*, 6 (1982) 543-546.

1796. V. Doltchinkova, P.R. Angelova, Phytohemagglutinin and light-induced charge density effects on plasma membrane of *Plectonema boryanum*, *Journal of New Developments in Chemistry* 1 2014, 11-19.

A.M. Zhivkov, Changes in purple membrane curvature caused by lectin adsorption, *Compt. Rend. Acad Bulg Sci.* 50(1997)19-22.

1797. V. Doltchinkova, P.R. Angelova, Phytohemagglutinin and light-induced charge density effects on plasma membrane of *Plectonema boryanum*, *Journal of New Developments in Chemistry* 1 2014, 11-19.

Georgieva, M., Razkazov, N., Petrova, M., Avdeev, G., Dobrev, D., Preparation of chemical dispersion coatings with included boron nitride, *Transactions of the Institute of Metal Finishing*, 91(2)(2013)96-100

1798. Walsh, F.C., Ponce De Leon, C., A review of the electrodeposition of metal matrix composite coatings by inclusion of particles in a metal layer: An established and diversifying technology, *Transactions of the Institute of Metal Finishing*, 92(2), 2014 83-98

1799. Jelinek, T.W., Advances in surface finishing - A review of the international literature in 2012/2013 [Fortschritte in der Galvanotechnik: Eine Auswertung der internationalen Fachliteratur 2012/2013], *Galvanotechnik*, 105(1), 2014 18-37

V. Bachvarov, M. Peshova, S. Vitkova, N. Boshkov, "Electrodeposition, structure and composition of ternary Zn-Ni-P alloys", *Material Chemistry and Physics*, 136 2-3 (2012)999 - 1007.

1800. S. Fashu, C.D. Gu, X.L. Wang, J.P. Tu, "Structure, composition and corrosion resistance of Zn-Ni-P alloys electrodeposited from an ionic liquid based on choline chloride", *Journal of the Electrochemical Society*, 161, 7, 2014, D3011-D3017.

M. Monev, A. Pfund, G. Beck, K. Petrov, R. Bretzler, U. Heuberger, A. Zielonka, Effect of current density on composition and structure of electrodeposited Au-Co alloy coatings, *Trans. IMF*, 90(6) (2012)305-310.

1801. T.W. Jelinek, Fortschritte in der Galvanotechnik: Eine Auswertung der internationalen Fachliteratur 2012/2013 | [Advances in surface finishing - A review of the international literature in 2012/2013], *Galvanotechnik*, 105(1), 2014 18-37.