Всички цитати (първа част - на научни публикации)

- **Звено: (ИФХ) Институт по физикохимия „Академик Ростислав Каишев”**
- **Година**: 2021 ÷ 2021
- **Тип записи**: Записи, които влизат в отчета на звеното

Брой цитирани публикации: 488	Брой цитиращи източници: 1385	Коригиран брой: 1385.000

1978

1. Rashkov S., **Stoychev D.**. "Uber die Elektrolytische Abscheidung, das Wachstum und die Struktur von Kupferuberzugen aus saueren Elektrolyt". Surface Technology, 7, 6, Elsevier, 1978, 155-177

Цитира се в:

1. Moffat, T. , Wheeler, D. and Josell, D. (2002), Superconformal Film Growth, Electrochemical Society, Meeting | 202nd | | Electrochemical Society Conference Volume 2002-2, Issue No. 1, Conference Dates October 1, 2002 (Accessed July 30, 2021), **@2021** — **1.000**

1982

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

Цитира се в:

2. Jiang, L., Verkhoturov, S., Schweikert, E., Demkowicz, M.J., "Formation of Ni-OHS surface phases on cathodically charged Ni", Corrosion Science, 185, 109424, 2021, **@2021** Линк — **1.000**

3. Kariuki, N.N., Myers, D.J., "Impact of Nickel Ions on the Oxygen Reduction Reaction Kinetics of Pt and on Oxygen Diffusion through Ionomer Thin Films", J. Electrochem. Soc. 168, 064505, 2021, **@2021** — **1.000**

3. Rashkov, St., **Monev, M.**, Atanassov, N.. Stressed electrolytically deposited bright nickel coatings obtained during the cathodic formation and decomposition of nickel hydride in acidic media. Surface Technology, 17, 4, 1982, ISSN:3764583, DOI:10.1016/0376-4583(82)90069-3, 309-314

Цитира се в:

4. Chen, J., Packard, C.E., "Controlled spalling-based mechanical substrate exfoliation for III-V solar cells: A review", Solar Energy Materials and Solar Cells, 225, 111018, 2021, **@2021** Линк — **1.000**

1983

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

Цитира се в:

5. Dahake, R., Bansiwal, A., Jadhav, A., "Occurrence and Sources of Selenium Contamination in Soil and Water and its Impacts on Environment", Selenium Contamination in Water, 2021, **@2021** Линк — **1.000**

1984

5. **Stoychev, D.S.**, **Stoyanova, E.A.**, Rashkov, St.. Deposition of thin tin coatings on aluminium alloys. Surface Technology, 23, 2, 1984, ISSN:3764583, DOI:10.1016/0376-4583(84)90119-5, 127-141. SJR:0.872, ISI IF:2.139

Цитира се в:

6. Aliofkhazraei, M., Walsh, F.C., Zangari, G., (...), Assareh, S., Allahyarzadeh, M.H. Development of electrodeposited multilayer coatings: A review of fabrication, microstructure, properties and applications, Applied Surface Science Advances, Volume 6, 2021, 100141, ISSN 2666-5239, https://doi.org/10.1016/j.apsadv.2021.100141., **@2021** — **1.000**

1986

6. **Milchev, A**. Finite-size scaling analysis of the ϕ4 field theory on the square lattice. 1986

Цитира се в:

7. Bachtis, D., Aarts, G., Lucini, B. "Quantum field-theoretic machine learning".Physical Review D 103(7), 074510, 2021, **@2021** Линк **1.000**

1987

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

Цитира се в:

8. Luo, Zh. , Su, Y., Yue, Sh., "Electrodeposition of copper nanopowder with controllable morphology: influence of pH on the nucleation/growth mechanism". J. Solid State Electrochem. 25, 1611-1621, 2021, **@2021** **1.000**

8. Exerowa, D., Kolarov, T., **Khristov, Khr.**. Direct measurement of disjoining pressure in black foam films. I. Films from an ionic surfactant. Colloids and Surfaces, 22, 2, 1987, ISSN:1666622, DOI:10.1016/0166-6622(87)80218-4, 161-169. JCR-IF (Web of Science):4.539

Цитира се в:

9. Li W., Wang K., Zheng W., Static and flow behaviors of supercritical CO2 foam stabilized with betaine surfactant for mobility control application, Oil & Gas Science and Technology 76, 58 (2021), **@2021** **1.000**
10. Lu M., Wang Z., Gutierrez M., Chen K., Zheng B., Sheng G., Su Y., Apparent porosity and permeability model of inorganic matter with water film in shale gas reservoirs, Journal of Porous Media, Vol 24, Iss 1 pp. 1-14, 2021, **@2021** **1.000**
11. Ochoa Ch., Xu Ch., Martínez Narváez C. D. V., Yang W., Zhang Y., Sharma V., Drainage via stratification and nanoscopic thickness transitions of aqueous sodium naphthenate foam films, Soft Matter, 17, 8915-8924, 2021, **@2021** **1.000**

1988

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

Цитира се в:

12. Scarpa, L. "Analysis and Optimal Velocity Control of a Stochastic Convective Cahn–Hilliard Equation". Journal of Nonlinear Science, 31 (2), art. no. 45, 2021, **@2021** Линк **1.000**
13. Scarpa, L. "The stochastic Cahn-Hilliard equation with degenerate mobility and logarithmic potential". Nonlinearity, 34 (6), pp. 3813-3857, 2021, **@2021** Линк **1.000**

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

Цитира се в:

14. Cassar, D.R. "ViscNet: Neural network for predicting the fragility index and the temperature-dependency of viscosity" Acta Materialia 206, 116602, 2021, **@2021** Линк **1.000**
15. Coon, E., Whittier, A.M., Abel, B.M., Stapleton E.L., Miller, R., Fu, Q. "Viscosity and crystallization of bioactive glasses from 45S5 to 13-93" International Journal of Applied Glass ScienceVolume 12, Issue 1, Pages 65 - 77, 2021, **@2021** Линк **1.000**
16. Galimzyanov, B.N., Mokshin, A.V. " A novel view on classification of glass-forming liquids and empirical viscosity model " Journal of Non-Crystalline Solids 570, 121009, 2021, **@2021** Линк **1.000**
17. Ginzburg, V.V. "Combined description of polymerPVTand relaxation data using a dynamic “SL-TS2” mean-field lattice model" Soft Matter 17(40), pp. 9094-9106, 2021, **@2021** Линк **1.000**
18. Harrison Henri dos Santos, N., Marcio Luis Ferreira, N. "Identifying silica types using viscosity data and principal component analysis", Journal of Physics and Chemistry of Solids DOI: 10.1016/j.jpcs.2021.110177, 157, 110177, 2021, **@2021** **1.000**
19. Kitamura N., Hayashido T., Matsushita N., Fukumi K., Uchiyama H., Kozuka H. "Viscoelastic behavior of alkali and alkaline earth aluminophosphate glasses" Journal of Non-Crystalline Solids 120441, 2021, **@2021** Линк **1.000**
20. Lancelotti, R.F., Cassar, D.R., Nalin, M., Peitl, O., Zanotto, E.D. "Is the structural relaxation of glasses controlled by equilibrium shear viscosity?" Journal of the American Ceramic Society 104(5), pp. 2066-2076, 2021, **@2021** Линк **1.000**
21. Langhammer, D., Di Genova, D., Steinle-Neumann, G. "Modeling the Viscosity of Anhydrous and Hydrous Volcanic Melts" Geochemistry, Geophysics, Geosystems 22(8), e2021GC009918, 2021, **@2021** Линк **1.000**

22. Le Losq, C., Valentine, A.P., Mysen, B.O., Neuville, D.R. "Structure and properties of alkali aluminosilicate glasses and melts: Insights from deep learning" Geochimica et Cosmochimica Acta 314, pp. 27-54, 2021, **@2021** Линк **1.000**

23. Li, S., Liu, Z., Yin, L., Kang J., Qu Y., Liang, X., Yue, Y. "The fiber spinnability and mixed alkaline effect for calcium magnesium aluminosilicate glasses" Journal of Non-Crystalline Solids 557, 120643, 2021, **@2021** Линк **1.000**

24. Li, S., Liu, Zi., Yin, L., Yunlong Yue, Y., "The fiber spinnability and mixed alkaline effect for calcium magnesium aluminosilicate glasses". Journal of Non-Crystalline Solids 557:120643 DOI:10.1016/j.jnoncrysol.2021, **@2021** **1.000**

25. Mauro, J.C. "Viscosity of Liquids" DOI: 10.1016/B978-0-12-823907-0.00016-9 In book: Materials Kinetics, 2021, **@2021** **1.000**

26. Nascimento, H.H.D.S., Nascimento, M.L.F. "Identifying silica types using viscosity data and principal component analysis" Journal of Physics and Chemistry of Solids 157, 110177, 2021, **@2021** Линк **1.000**

27. Sukenaga, S., Shibata, H "High-temperature characterization of glasses and melts (Book Chapter) "Encyclopedia of Materials: Technical Ceramics and Glasses 1-3, pp. 689-703, 2021, **@2021** Линк **1.000**

28. Xia, Y., Yuan, B., Gulbiten, O., Aitken, B., Sen, S. " Kinetic and calorimetric fragility of chalcogenide glass-forming liquids: Role of shear vs enthalpy relaxation" Journal of Physical Chemistry B 125(10), pp. 2754-2760, 2021, **@2021** Линк **1.000**

1990

11. **Mileva E.**. Solid particle in the boundary layer of a rising bubble. Coll. & Polym. Sci., 268, Springer, 1990, ISSN:0303-402X, 375-383. ISI IF:1.723

Цитира се в:

29. Nikolov Ljubomir Hydrodynamic Boundary Layers at Solid Wall—A Tool for Separation of Fine Solids Colloids Interfaces 2021, 5(1), 11; https://doi.org/10.3390/colloids5010011, **@2021** Линк **1.000**

12. **Milchev, A.**. Solitary waves in a Frenkel-Kontorova model with non-convex interactions. Physica D: Nonlinear Phenomena, 41, 2, 1990, ISSN:1672789, DOI:10.1016/0167-2789(90)90127-B, 262-274

Цитира се в:

30. Gombar, S., Mali, P., Radošević, S., Tekić, J., Pantić, M., Pavkov-Hrvojević, M. "Influence of anharmonic convex interparticle potential and Shapiro steps in the opposite direction of driving force". Physica Scripta, 96 (3), art. no. 035211, 2021, **@2021** Линк **1.000**

13. **Milchev, A.**, Malomed B.A.,. Interaction of dislocations with a local defect in an atomic chain with a nonconvex interparticle potential. Physical Review B, 41, 1990, 4240-4246. ISI IF:3.836

Цитира се в:

31. Tchouadji Ndjike, M.B., Tchakoutio Nguetcho, A.S., Li, J., Bilbault, J.M. "Interplay role between dipole interactions and hydrogen bonding on proton transfer dynamics" Nonlinear Dynamics 105(3), pp. 2619-2643, 2021, **@2021** Линк **1.000**

1991

14. Dünweg, B., **Milchev, A.**, Rikvold, P.A.. A model for adsorption of O on Mo(110): Phase transitions with nonuniversal behavior. The Journal of Chemical Physics, 94, 5, 1991, ISSN:219606, 3958-3973. SJR (Scopus):1.16

Цитира се в:

32. Changchun, B.C., Liu, C., "Optimal Distributed Control of a Allen–Cahn/Cahn–Hilliard System with Temperature". Applied Mathematics & Optimization, 84, 1639–1684, 2021, DOI: 10.1007/s00245-021-09807-2, **@2021** **1.000**

33. Pasinetti, P.M., Ramirez-Pastor, A.J., Vogel, E.E., Saravia, G. "Entropy-driven phases at high coverage adsorption of straight rigid rods on two-dimensional square lattices". Physical Review E 104(5), 054136, **@2021** Линк **1.000**

15. Schmelzer, J., **Milchev, A.**. Spinodal decomposition in adiabatically closed systems: theory. Physics Letters A, 158, 7-Jun, 1991, ISSN:3759601, DOI:10.1016/0375-9601(91)90986-I, 307-312

Цитира се в:

34. Donley, J.P. " Kinetics of phase separation in thermally isolated critical binary fluids" Physical Review E103(6), 062138, 2021, **@2021** Линк **1.000**

1992

16. **Mileva E.**, Nishkov I.. Entrainment of fine hydrophilic particles by granulometric separation. International Journal of Mineral Processing, 36, Elsevier, 1992, ISSN:0301-7516, 125-136. SJR:0.795

Цитира се в:

35. Nikolov Ljubomir "Hydrodynamic Boundary Layers at Solid Wall—A Tool for Separation of Fine Solids" Colloids Interfaces 2021, 5(1), 11; https://doi.org/10.3390/colloids5010011, **@2021** Линк **1.000**

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

Цитира се в:

36. JES FOCUS ISSUE ON ELECTROCHEMICAL PROCESSING FOR INTERCONNECTS Self-Assembled Monolayer of 3-N, N-Dimethylaminodithiocarbamoyl-1-Propanesulfonic Acid (DPS) Used in Electrodeposition of Copper DOI: 10.1149/2.034312jes] Ibro TabakovicIbro TabakovicSteve RiemerSteve RiemerMing Sun 60(12) D3197-D3205 (2013)D31970013-4651/2013/160(12)/D3197/9/ Available from: https://www.researchgate.net/publication/265122669_JES_FOCUS_ISSUE_ON_ELECTROCHEMICAL_PROCESSING_FOR_INTERCONNECTS_Self-Assembled_Monolayer_of_3-N_N-Dimethylaminodithiocarbamoyl-1-Propanesulfonic_Acid_DPS_Used_in_Electrodeposition_of_Copper [accessed Aug 23 2021]., **@2021** **1.000**

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

Цитира се в:

37. Kandpal R., Ahammad Sh.Z., "Alternating current based electrochemically polymerized polyaniline modified flexible conducting paper as an exoelectrogenic biofilm platform for a microbial fuel cell", Journal of Water Process Engineering, 2021, **@2021** Линк **1.000**

38. Pasquini, L., Di Vona, M., L., Sgreccia E., Ruzimuradov O., Ph. Knauth, Ph., " Thin-Films by Electrochemical Synthesis: Bipolar and Ampholytic Membranes", ChemElectroChem 8, 1493-1499, 2021, **@2021** Линк **1.000**

39. Zarei, A., Alihosseini, F., Parida, D., Nazir, R., Gaan, S., "Fabrication of Cellulase Catalysts Immobilized on a Nanoscale Hybrid Polyaniline/Cationic Hydrogel Support for the Highly Efficient Catalytic Conversion of Cellulose", ACS Appl. Mater. Interfaces , 13, 42, 2021, 49816–49827, 2021, **@2021** Линк **1.000**

1993

19. **V. Tsakova**, A. Milchev, J.W. Schultze. Growth of polyaniline films under pulse potentiostatic conditions. Journal of Electroanalytical Chemistry, 346, Elsevier, 1993, ISSN:1572-6657, 85-97. ISI IF:2.822

Цитира се в:

40. Sun, X., Xu, K., Chatzitakis, A., Norby, T., "Photocatalytic generation of gas phase reactive oxygen species from adsorbed water: Remote action and electrochemical detection", J. Environment. Chem. Eng. 9 (2), 104809, 2021, **@2021** **1.000**

20. Michailova, E., Vitanova, I., **Stoychev, D.**, Milchev, A.. Initial stages of Copper Electrodeposition in presence of organic additives. Electrochimica Acta, 38, 16, Elsevier, 1993, DOI:10.1016/0013-4686(93)85116-G, 2455-2458. ISI IF:4.504

Цитира се в:

41. eLIBRARY ID: 44794571 ЭЛЕКТРООСАЖДЕНИЕ МЕТАЛЛОВ И СПЛАВОВ В УСЛОВИЯХ ЭЛЕКТРОКАТАЛИЗА АДАТОМАМИ ИВАНОВА ТАТЬЯНА ЕВГЕНЬЕВНА1, ИСМАГИЛОВА АЛЕНА ВАСИЛЬЕВНА1, ПОВЕТКИН ВИКТОР ВЛАДИМИРОВИЧ1 1 Тюменский индустриальный университет, 625000, г. Тюмень, ул. Володарского, 38 Тип: монография Язык: русский ISBN: 978-5-9961-2361-2 Год издания: 2021 Место издания: ТюменьЧисло страниц: 160 Издательство: Тюменский индустриальный университет (Тюмень) УДК: 544. 6, **@2021** **1.000**

21. **A. Milchev**, W. Paul, K. Binder. Off-lattice Monte Carlo simulation of dilute and concentrated polymer solutions under theta conditions.. 1993

Цитира се в:

42. Bley, M., Baul, U., Dzubiella, J. "Controlling Solvent Quality by Time: Self-Avoiding Sprints in Nonequilibrium Polymerization" PHYSICAL REVIEW E 104(3) DOI: 10.1103/PhysRevE.104.034501, 2021, **@2021** **1.000**

43. Bley, M., Baul, U., Dzubiella, J. "Controlling solvent quality by time: Self-avoiding sprints in nonequilibrium polymerization" Physical Review E104(3), 034501, 2021, **@2021** Линк **1.000**

44. Majumder, S., Marenz, M., Subhajit, P., Janke, W. "Knots are Generic Stable Phases in Semiflexible Polymers" Macromolecules, 54 (12), pp. 5321-5334, 2021, **@2021** Линк **1.000**

1994

22. **Milchev, A.**, Gerroff, I., Schmelzer, J.. Monte Carlo study of spinodal decomposition in adiabatically closed systems. Zeitschrift f?r Physik B Condensed Matter, 94, 2-Jan, Springer-Verlag, 1994, ISSN:7223277, DOI:10.1007/BF01307660, 101-108

Цитира се в:

45. Donley, J. P. "Kinetics of phase separation in thermally isolated critical binary fluids" Physical Review E, 2021, **@2021** Линк **1.000**

23. **Karamanov A.**, I. Gutzow. Synthesis of Wall-covering Glass-Ceramics from waste raw Materials. Glastech.. Ber., Glass Sci. Tech., 67, [8], 1994, 227-231, 1994, ISI IF:0.69

Цитира се в:

46. Montoya-Quesada, E., Villaquirán-Caicedo, M. A., & de Gutiérrez, R. M. (2021). New glass-ceramic from ternary–quaternary mixtures based on Colombian industrial wastes: Blast furnace slag, cupper slag, fly ash and glass cullet. Boletín de la Sociedad Española de Cerámica y Vidrio., **@2021** **1.000**

24. Ludwig, FP, Schmelzer, J., **Milchev, A.**. Spinodal decomposition in adiabatically closed systems: A possible key for the understanding of its general scenario. Phase Transitions: A Multinational Journal, 48, 4, 1994, DOI:10.1080/01411599408213216, 237-253. ISI IF:0.95

Цитира се в:

47. Chen, B., Liu, C. "Optimal Distributed Control of a Allen–Cahn/Cahn–Hilliard System with Temperature" Applied Mathematics & Optimization 2021, **@2021** Линк **1.000**

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

Цитира се в:

48. IU Kim, YR Gwon, YM Shin, SK Cho, Effect of sodium dodecyl sulphate on Cu electrodeposition: interaction with hydrophobic substrate and Cu ions, Transactions of the IMF, Taylor & Francis, https://doi.org/10.1080/00202967.2021.2020440, **@2021** **1.000**

49. Shin, YM; Kim, IU; (...); Cho, SK, Study on the Effect of (Dodecyldimethylammonio)propanesulfonate Zwitterionic Surfactant on Cu Electrodeposition, JOURNAL OF THE KOREAN ELECTROCHEMICAL SOCIETY 24 (3) , pp.35-41, 2021, **@2021** **1.000**

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

Цитира се в:

50. Paul, S., Majumder, S., Janke, W. "Motion of a polymer globule with Vicsek-like activity: from super-diffusive to ballistic behavior". Soft Materials 19(3), pp. 306-315, 2021, **@2021** Линк **1.000**

27. **Karamanov A.**, I. Gutzow. Diopside Marble-like Sintered Glass-Ceramics. Glastech. Ber., Glass Sci. Tech., 67, [7], 1994, 202-208, 1994, ISI IF:0.69

Цитира се в:

51. Tarrago, M., Royo, I., Martinez, S., Garcia-Valles, M., & Neuville, D. R. (2021). Incorporation of calcium in glasses: a key to understand the vitrification of sewage sludge. International Journal of Applied Glass Science., **@2021** **1.000**

1995

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

Цитира се в:

52. Lang, M., Kumar, K.S. "Simple and General Approach for Reversible Condensation Polymerization with Cyclization". Macromolecules, 54(15), pp. 7021-7035, 2021, **@2021** Линк **1.000**

29. Peykova, M., Michailova, E., **Stoychev, D.**, Milchev, A.. Galvanostatic Studies of the Nucleation and Growth Kinetics of Copper in the Presence of Surfactants. Electrochimica Acta, 40, 16, Elsevier, 1995, ISSN:0013-4686, DOI:10.1016/0013-4686(95)00241-6, 2595-2601. SJR:1.288, ISI IF:4.504

Цитира се в:

53. Collet, T., Hallemans, N., Wouters, B., (...), Pintelon, R., Hubin, A., An operando ORP-EIS study of the copper reduction reaction supported by thiourea and chlorides as electrorefining additives, Electrochimica Acta 389, 138762, DOI: 10.1016/j.electacta.2021.138762, **@2021** **1.000**

1996

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

Цитира се в:

54. Alesary, H.F., Ismail, H.K., Hameid Odda, A., (...), Ballantyne, A.D., Ryder, K.S., Influence of different concentrations of nicotinic acid on the electrochemical fabrication of copper film from an ionic liquid based on the complexation of choline chloride-ethylene glycol, ournal of Electroanalytical Chemistry 897, 115581, DOI: 10.1016/j.jelechem.2021.115581, **@2021** **1.000**

55. College of Engineering/Engineering Practice School (공과대학/대학원) Dept. of Chemical and Biological Engineering (화학생물공학부) Theses **1.000**

(Ph.D. / Sc.D._화학생물공학부) Electrochemical investigation on structural components of triethylene glycol-based levelers with bromide ions for bottom-up filling in microvia 마이크로비아에서 바닥 차오름을 위한 브로마이드 이온과 트라이에틸렌글라이콜을 기반한 평탄제의 구조적 요소들에 대한 전기화학적 연구 Authors 이명현 Advisor 김재정 Issue Date 2021-02 Publisher 서울대학교 대학원 Description 학위논문 (박사) -- 서울대학교 대학원 : 공과대학 화학생물공학부, 2021. 2. 김재정. URI https://hdl.handle.net/10371/175491 https://dcollection.snu.ac.kr/common/orgView/000000164454, **@2021** Линк

56. Han, M., Uk Yoo, B., Kim, M., (...), Ho Park, Y., Choe, S., In-line detection of Cu+-related species in aged Cu plating bath using flow cell-based electrochemical method, Journal of Electroanalytical Chemistry 900, 115696 https://doi.org/10.1016/j.jelechem.2021.115696, **@2021** **1.000**

57. Lee, MH; Kim, MJ and Kim, JJ Competitive adsorption between bromide ions and bis(3-sulfopropyl)-disulfide for Cu microvia filling, ELECTROCHIMICA ACTA 370, 137707, https://doi.org/10.1016/j.electacta.2020.137707, **@2021** **1.000**

58. Wu, Y., Mao, Z., Wang, C., (...), Chen, S., Cai, W.-B., Advances in mechanistic understanding of additives for copper electroplating in high-end electronics manufacture | [高端电子制造中电镀铜添加剂作用机制研究进展] Open Access, Scientia Sinica Chimica 51(11), pp. 1474-1488, DOI: 10.1360/SSC-2021-0154, **@2021** **1.000**

59. Yoon, Y., Kim, M.J., Kim, J.J. Machine learning to electrochemistry: Analysis of polymers and halide ions in a copper electrolyte, Electrochimica Acta, Volume 399, 2021, 139424, ISSN 0013-4686, https://doi.org/10.1016/j.electacta.2021.139424., **@2021** **1.000**

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

Цитира се в:

60. Malyshev M.D., Guseva D., Vasilevskaya V., Komarov P. " Effect of Nanoparticles Surface Bonding and Aspect Ratio on Mechanical Properties of Highly Cross-Linked Epoxy Nanocomposites: Mesoscopic Simulations " Materials, 2021, **@2021** Линк **1.000**

32. **Dobrev, Ts.**, **Monev, M.**, **Krastev, I.**, Richtering, W., Zlatev, R., Rashkov, St.. "Electrochemical determination of corrosion protection properties of chromated zinc, zinc alloy and cadmium electroplated coatings?. Transactions of the Institute of Metal Finishing, 74, 2, 1996, ISSN:202967, 45-50. SJR (Scopus):0.23

Цитира се в:

61. Ivanova, D.I., "Surface treatment of electro galvanized steel in modified zinc phosphating solutions", Bulgarian Chemical Communications, 53(2), 216–227, 2021, **@2021** Линк **1.000**

33. **Petrova, M.**, Noncheva, Z., Dobrev, Ts., Rashkov, St., Kounchev, N., Petrov, D., Vlaev, St., Mihnev, V., Zarev, S., Georgieva, L., Buttinelli, D.. "Investigation of the processes of obtaining plastic treatment and electrochemical behaviour of lead alloys in their capacity as anodes during the electro-extraction of zinc I. Behaviour of Pb-Ag, Pb-Ca and PB-Ag-Ca alloys?. Hydrometallurgy, 40, 3, 1996, ISSN:0304386X, DOI:10.1016/0304-386X(95)00009-6, 293-318

Цитира се в:

62. Han, Z., Xu, L., Zhu, P., Zhou, S., „Effect of the Sn Addition on the Electrochemical Properties of Al/Pb Anodes and Its Application in Zinc Electrowinning“, ECS Journal of Solid State Science and Technology 10(6), 063008 (2021), **@2021** **1.000**

63. Zhong, X., Lin, Z., Chen, C., (...), Zhong, S., Xu, Z., „The role of ZnFe2O4 in the electrochemical performance of Pb-ceramic composite anode in sulfuric acid solution“, Hydrometallurgy 201, 105587 (2021), **@2021** **1.000**

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

Цитира се в:

64. Han, Z., Xu, L., Zhu, P., Zhou, S., „Effect of the Sn Addition on the Electrochemical Properties of Al/Pb Anodes and Its Application in Zinc Electrowinning“, ECS Journal of Solid State Science and Technology 10(6), 063008 (2021), **@2021** **1.000**

65. Ye, W., Xu, F., Jiang, L., (...), Zhang, G., Chen, L., „A novel functional lead-based anode for efficient lead dissolution inhibition and slime generation reduction in zinc electrowinning“, Journal of Cleaner Production 284, 124767 (2021), **@2021** **1.000**

66. Zhuang, S., Wu, B., Duan, N., Cao, J., „Research progress in anodes for zinc electrowinning | [锌电沉积阳极的研究进展]“, Fuhe Cailiao Xuebao/Acta Materiae Compositae Sinica 38(5), pp. 1313-1330 (2021), **@2021** **1.000**

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

Цитира се в:

67. Chauhan, G., Simpson, M.L., Abel, S.M. "Adsorption of semiflexible polymers in crowded environments". Journal of Chemical Physics, 155 (3), art. no. 034904, 2021, **@2021** Линк **1.000**

68. Rafieiolhosseini N., Killa M., Tötsch N., Grad J., Höing A., Ottmann C., Knauer S., Voskuhl J., Hoffmann D. "Computational model predicts protein binding sites of a luminescent ligand equipped with guanidiniocarbonylpyrrole groups" Beilstein Archives 2021, **@2021** Линк **1.000**

69. Yang, Q.-H., Qi, H.-K., Yang, X., Luo, M.-B. "Simulation study on the critical adsorption and diffusion of polymer chains on heterogeneous surfaces with random adsorption sites". Soft Matter, 17 (4), pp. 1000-1007, 2021, **@2021** Линк **1.000**

1997

36. **Milchev, A**. Crossover dynamics for polymer simulation in porous media. 1997

Цитира се в:

70. Zhang B., Tan F., Zhao N. "Polymer looping kinetics in active heterogeneous environments" Soft Matter, 2021, **@2021** Линк **1.000**

37. **Radeva, T.**, Petkanchin, I.. Electric properties and conformation of polyethylenimine at the hematite-aqueous solution interface. Journal of Colloid and Interface Science, 196, 1, 1997, ISSN:219797, DOI:10.1006/jcis.1997.5166, 87-91. ISI IF:5.091

Цитира се в:

71. Li, P., Ma, X.-H., Jin, L., Chen, J., Dopamine-polyethyleneimine co-deposition cellulose filter paper for α-Glucosidase immobilization and enzyme inhibitor screening, Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 1167, art. no. 122582 (2021), **@2021** Линк **1.000**

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

Цитира се в:

72. Paiva, F. L., Secchi A., Calado V., Maia J., Khani S. " Shear Flow and Relaxation Behaviors of Entangled Viscoelastic Nanorod-Stabilized Immiscible Polymer Blends" Macromolecules, 2021, **@2021** Линк **1.000**

1998

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

Цитира се в:

73. Lang, M., Kumar, K.S. "Simple and General Approach for Reversible Condensation Polymerization with Cyclization". Macromolecules, 54 (15), pp. 7021-7035, 2021, **@2021** Линк **1.000**

74. Mitus, A.C., Saphiannikova, M., Radosz, W., Toshchevikov, V., Pawlik, G. "Modeling of nonlinear optical phenomena in host-guest systems using bond fluctuation monte carlo model: A review". Materials, 14 (6), art. no. 1454, 2021, **@2021** Линк **1.000**

75. Radosz, W., Pawlik, G., Mituś, A.C. "Characterization of monte carlo dynamic/kinetic properties of local structure in bond fluctuation model of polymer system". Materials, 14 (17), art. no. 4962, 2021, **@2021** Линк **1.000**

76. Schuster, G., Cafferty, Suneesh, B., Karunakaran, C. , Hud, N. "Water-Soluble Supramolecular Polymers of Paired and Stacked Heterocycles: Assembly, Structure, Properties, and a Possible Path to Pre-RNA". Journal of the American Chemical Society, 143 (25), pp. 9279-9296, 2021, **@2021** Линк **1.000**

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

Цитира се в:

77. Scott, M., "Toward understanding commercial additives for zincate electrogalvanizing", Masters Theses, 7981, Missouri University of Science and Technology, Spring 2021, **@2021** Линк **1.000**

41. **Stoychev, D.**. On the role of poly(ethylene glycol) in deposition of galvanic copper coatings. Transactions of the Institute of Metal Finishing, 76, 2, 1998, ISSN:202967, 73-80

Цитира се в:

78. Luo, Z., Su, Y., Yue, S. et al. Electrodeposition of copper nanopowder with controllable morphology: influence of pH on the nucleation/growth mechanism. J Solid State Electrochem 25, 1611–1621 (2021). https://doi.org/10.1007/s10008-021-04913-1, **@2021** **1.000**

79. Wu, Y., Mao, Z., Wang, C., (...), Chen, S., Cai, W.-B., Advances in mechanistic understanding of additives for copper electroplating in high-end electronics manufacture | [高端电子制造中电镀铜添加剂作用机制研究进展], Scientia Sinica Chimica 51(11), pp. 1474-1488, DOI: 10.1360/SSC-2021-0154, **@2021** **1.000**

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

Цитира се в:

80. Amorós, J.L., Blasco, E., Feliu, C., Moreno, A. Effect of particle size distribution on the evolution of porous, microstructural, and dimensional characteristics during sinter-crystallisation of a glass-ceramic glaze (2021) Journal of Non-Crystalline Solids, 572, art. no. 121093, , **@2021** **1.000**

81. Midea Cuccovia Vasconcelos Reis, R., Ghussn, L. Single-run DSC method for determining surface crystal growth rate in glasses generalized for samples **1.000**

of different shapes (2021) Journal of the American Ceramic Society, 104 (5), pp. 2077-2086., **@2021**

82. Rawlings, R. D. (2021). Glass-ceramics: their production from wastes. Jurnal Sains Materi Indonesia, 4(2), 1-10., **@2021** **1.000**

43. Zhivkova, I.V., **Zhivkov, A.M.**, **Stoychev, D.S.**. Electrostatic behaviour of polyethylene oxide in Aqueus Solution. European Polymer Journal, 34, 4-Mar, Elsevier Limited, 1998, ISSN:00143057, 531-538. SJR:1.02, ISI IF:3.01

Цитира се в:

83. Wu, B., Gu, L., Cao, H., Qu, D., Effect of Salt Solution Condition on Adsorption Behaviors of Boundary Lubrication Additive on Charged Surfaces | [盐溶液条件对边界润滑添加剂在带电表面吸附行为的影响] Open Access, Jixie Gongcheng Xuebao/Journal of Mechanical Engineering 57(9), pp. 118-126 DOI: 10.3901/JME.2021.09.118, **@2021** **1.000**

84. Wu, B., Gu, L., Chun, B.-W., Kuhl, T.L., Adsorption and interaction forces of commercial Poly(naphthalene sulfonate) (PNS) and Poly(carboxylate ether) (PCE) polyelectrolytes with negatively charged surfaces in monovalent and divalent electrolytes, Colloids and Surfaces A: Physicochemical and Engineering Aspects 634, 127992, DOI: 10.1016/j.colsurfa.2021.127992, **@2021** **1.000**

1999

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

Цитира се в:

85. Karbasi, M., Keshavarz Alamdari, E., Amirkhani Dehkordi, E., Khan, Z.A., Tavangarian, F., "Enhanced mechanical properties and microstructure of accumulative roll-bonded co/pb nanocomposite", Nanomaterials 11(5), 1190 (2021), **@2021** **1.000**

86. Wang, Z., Aji, A.T., Wilson, B.P., (...), Møll, M., Lundström, M., " Modelling the effect of solution composition and temperature on the conductivity of zinc electrowinning electrolytes", Metals 11(11), 1824 (2021), **@2021** **1.000**

45. **Armyanov, S**, **Georgieva, J**, **Tachev, D**, **Valova, E**, Nyagolova, N, Mehta, S, Leibman, D, Ruffini, A. Electroless Deposition of Ni-Cu-P Alloys in Acidic Solutions. Electrochemical and Solid-State Letters, 2, 7, The Electrochemical Society, Inc., 1999, ISSN:1099-0062, DOI:10.1149/1.1390824, 323-325. ISI IF:1.622

Цитира се в:

87. Biswas A., Das S. K., Sahoo P., "Effect of copper incorporation on phase transformation behavior of electroless nickel–phosphorous coating and its effect on the tribological behavior", Proc. Inst. Mechan. Eng., Part L: J. Materials: Design and Applic., 235, 898–916 (2021), **@2021** Линк **1.000**

88. Shakibhamedan, S., Sheibani, S., Ataie, A., "High Performance Cu Matrix Nanocomposite Fabricated Through Spark Plasma Sintering of Cu and Cu-Coated CNT", Met. Mater. Intern. 27, 4271–4285 (2021), **@2021** Линк **1.000**

46. Stefanov, P., **Stoychev, D.**, Stoycheva, M., Gonzalez-Elipe, A.R., Marinova, Ts.. XPS, SEM and TEM characterization of stainless-steel 316L surfaces after electrochemical etching and oxidizing. SURFACE AND INTERFACE ANALYSIS, 28, 1, Elsevier, 1999, DOI:10.1002/(SICI)1096-9918(199908)28:13.0.CO;2-J, 106-110. ISI IF:1.245

Цитира се в:

89. Jeong, J., Yoon, W., Chung, B., Jeon, G., Ryu, S., Fabrication of eco-friendly graphene nanoplatelet electrode for electropolishing and its properties, Applied Sciences (Switzerland) 11(7), 3224; https://doi.org/10.3390/app11073224, **@2021** **1.000**

47. **Ilieva, M.**, Dimova-Malinovska, D., **Ranguelov, B.**, **Markov, I.**. High temperature electrodeposition of CdS thin films on conductive glass substrates. Journal of Physics Condensed Matter, 11, 49, 1999, ISSN:9538984, DOI:10.1088/0953-8984/11/49/320, 10025-10031. SJR (Scopus):0.94, JCR-IF (Web of Science):2.711

Цитира се в:

90. Altunayar-Unsalan, C., Unsalan, O., Szurgot, M.A., Wach, R.A. "Specific heat and thermal history of the Sariçiçek howardite". Meteoritics and Planetary Science, 56 (11), pp. 2103-2117, 2021, **@2021** Линк **1.000**

91. Borovička, J., Bettonvil, F., Baumgarten, G., Strunk, J., Hankey, M., Spurný, P., Heinlein, D. "Trajectory and orbit of the unique carbonaceous meteorite Flensburg". Meteoritics and Planetary Science, 2021, **@2021** Линк **1.000**

92. Gardiol, D., Barghini, D., Buzzoni, A., Carbognani, A., Di Carlo, M., Di Martino, M., Knapic, C., Londero, E., Pratesi, G., Rasetti, S., Riva, W., Salerno, R. " Cavezzo, the first Italian meteorite recovered by the PRISMA fireball network. Orbit, trajectory, and strewn-field". Monthly Notices of the Royal Astronomical Society, 501 (1), 1215-1227, 2021, **@2021** Линк **1.000**

93. Haba, M.K., Wotzlaw, J.-F. "ID-TIMS zircon U–Pb geochronology of the Camel Donga eucrite". Chemical Geology, 567, art. no. 120073, 2021, **@2021** Линк **1.000**

94. Jenniskens, P., Gabadirwe, M., Yin, Q.-Z., Proyer, A., Moses, O., Kohout, T., Franchi, F., Gibson, R.L., Kowalski, R., Christensen, E.J., Gibbs, A.R., Heinze, A. "The impact and recovery of asteroid 2018 LA" Meteoritics and Planetary Science, 56 (4), 844-893, 2021, **@2021** Линк **1.000**

95. Matzka, M., Lucio, M., Kanawati, B., Quirico, E., Bonal, L., Loehle, S., Schmitt-Kopplin, P. "Thermal History of Asteroid Parent Bodies Is Reflected in Their Metalorganic Chemistry". Astrophysical Journal Letters, 915 (1), art. no. L7, 2021, **@2021** Линк **1.000**

96. Schenk, P.M., Neesemann, A., Marchi, S., Otto, K., Hoogenboom, T., O'Brien, D.P., Castillo-Rogez, J., Raymond, C.A., Russell, C.T. "A young age of formation of Rheasilvia basin on Vesta from floor deformation patterns and crater counts" Meteoritics and Planetary Science, 2021, **@2021** Линк **1.000**

97. Vaci, Z., Day, J.M.D., Paquet, M., Ziegler, K., Yin, Q.-Z., Dey, S., Miller, A., Agee, C., Bartoschewitz, R., Pack, A. "Olivine-rich achondrites from Vesta and the missing mantle problem" Nature Communications, 12 (1), art. no. 5443, 2021, **@2021** Линк **1.000**

2000

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

Цитира се в:

98. Halagan, K., Banaszak, M., Jung, J., Polanowski, P., Sikorski, A. "Polymerization and structure of opposing polymer brushes studied by computer simulations" Polymers, 13 (24), art. no. 4294, 2021, **@2021** Линк **1.000**

99. Hałagan, K., Banaszak, M., Jung, J., Polanowski, P., Sikorski, A. "Dynamics of opposing polymer brushes: A computer simulation study". Polymers, 13 (16), art. no. 2758, 2021, **@2021** Линк **1.000**

100. Liu, H., Zhu, Y.-L., Lu, Z.-Y. "Kinetics of interfacial polymerization: Progress on computer simulation studies". Acta Polymerica Sinica, 52 (6), pp. 565-577, 2021, **@2021** Линк **1.000**

101. Polanowski, P., Sikorski, A. "The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study". Soft Matter, 17 (46), pp. 10516-10526, 2021, **@2021** Линк **1.000**

102. Wei, F., Zhong, T., Zhan, Z., Yao, L. "Self-assembled Micro-nanorobots: From Assembly Mechanisms to Applications". ChemNanoMat, 7 (3), pp. 238-252, 2021, **@2021** Линк **1.000**

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

Цитира се в:

103. Lang, M., Kumar, K.S. "Simple and General Approach for Reversible Condensation Polymerization with Cyclization". Macromolecules 54(15), pp. 7021-7035, 2021, **@2021** Линк **1.000**

50. Ivanov, I., Stefanov, Y., Noncheva, Z., **Petrova, M.**, Dobrev, Ts., **Mirkova, L.**, Vermeersch, R., Demaerel, J.-P.. Insoluble anodes used in hydrometallurgy Part II. Anodic behaviour of lead and lead-alloy anodes. Hydrometallurgy, 57, 2, 2000, ISSN:0304386X, 125-139

Цитира се в:

104. Krstić, V., Pešovski, B., „Novel multifunctional two layer catalytic activated titanium electrodes for various technological and environmental processes", Arabian Journal of Chemistry, 14(4), 103101 (2021), **@2021** **1.000**

105. Wang, X., Xu, R., Feng, S., Chen, C., Chen, B., „Facile one-step synthesis of a Co3O4- and CNT-doped 3D-Ti/PbO2 electrode with a high surface for zinc electrowinning", Hydrometallurgy 199, 105529, (2021), **@2021** **1.000**

106. Wang, Z., Aji, A.T., Wilson, B.P., (...), Møll, M., Lundström, M., „Modelling the effect of solution composition and temperature on the conductivity of zinc electrowinning electrolytes", Metals 11(11), 1824 (2021), **@2021** **1.000**

107. Xie, Z., Chang, J., Tao, C., (...), Luan, J., Liu, Z., „Polyacrylonitrile-based carbon fiber as anode for manganese electrowinning: Anode slime emission reduction and metal dendrite control", Journal of the Electrochemical Society 168(1), 013501, (2021), **@2021** **1.000**

108. Yang, C., Zhang, X., Zhao, L., „Oxygen evolution of amino carbon nanotubes doped lead-based anode | [**氨基碳**纳米管掺杂铅基阳极材料的析氧行为]", Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology) 52(2), (2021), pp. 350-357, **@2021** **1.000**

51. Kokkinidis, G., Papoutsis, A., **Stoychev, D.**, Milchev, A.. Electroless deposition of Pt on Ti - catalytic activity for the hydrogen evolution reaction. JOURNAL OF ELECTROANALYTICAL CHEMISTRY, 486, 1, Elsevier, 2000, ISSN:1572-6657, DOI:10.1016/S0022-0728(00)00128-5, 48-55. SJR:0.776, ISI IF:2.729

Цитира се в:

109. Achari, I. (2021). Synthesis and Characterization of Ultra-Thin Films of Palladium, Platinum and Their Alloys on Gold Substrate and Their Comparative Assessment as Formic Acid Oxidation Catalysts (Doctoral dissertation, State University of New York at Binghamton)., **@2021** **1.000**

110. Díaz, E.N., Filippin, F.A., Fuentes, A.S., Fasoli, H.J., Reaction of oxygen reduction on the surface of au on ti with oxide formed potentiodynamically before and after the deposition of au | [Reacción de reducción de oxígeno en superficie de au sobre ti con óxido formado potenciodinámicamente antes y después del depósito de au], Anales de la Asociacion Fisica Argentina 32(1), pp. 7-14. ISSN 1850-1168., **@2021** **1.000**

111. Fabbri, L., Giurlani, W., Biffoli, F., (...), Vizza, F., Innocenti, M., Exploiting the combination of displacement and chemical plating for a tailored electroless deposition of palladium films on copper, Applied Sciences (Switzerland) 11(18), 8403, 2021, ; https://doi.org/10.3390/app11188403, **@2021** **1.000**

112. Kaneva Maria V., Gulina Larisa B. , Tolstoy, Valeri P. Pt nanoparticles synthesized by successive ionic layers deposition method and their electrocatalytic properties in hydrogen evolution reaction during water splitting in the acidic medium Journal of Alloys and Compounds DOI: 10.1016/j.jallcom.2022.163640, **@2021** **1.000**

113. Touni, A., Grammenos, O.-A., Banti, A., (...), Pavlidou, E., Sotiropoulos, S., Iridium oxide-nickel-coated titanium anodes for the oxygen evolution reaction, Electrochimica Acta 390, 138866 DOI: 10.1016/j.electacta.2021.138866, **@2021** **1.000**

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

Цитира се в:

114. Hakimi, F., Rashchi, F., Ghalekhani, M., Dolati, A., Razi Astaraei, F., „Effect of a Synthesized Pulsed Electrodeposited Ti/PbO2-RuO2Nanocomposite on Zinc Electrowinning“, Industrial and Engineering Chemistry Research 60(31), (2021), pp. 11737-11748, **@2021** **1.000**

115. Han, Z., Xu, L., Zhu, P., Zhou, S., „Effect of the Sn Addition on the Electrochemical Properties of Al/Pb Anodes and Its Application in Zinc Electrowinning“, ECS Journal of Solid State Science and Technology 10(6), 063008 (2021), **@2021** **1.000**

116. Krstić, V., Pešovski, B., „Novel multifunctional two layer catalytic activated titanium electrodes for various technological and environmental processes“, Arabian Journal of Chemistry, 14(4), 103101 (2021), **@2021** **1.000**

117. Lephuthing, S.S., Okoro, A.M., Ige, O.O., Olunambi, P.A., “ Microstructural and electrochemical studies of spark plasma sintered multiwall carbon nanotubes reinforced TiO2-MnO2based composite“, Journal of Materials Research and Technology 12, (2021), pp. 894-903, **@2021** **1.000**

118. Maril, M., Tobosque, P., Cisternas, N., (...), Delplancke, J.-L., Carrasco, C., „Low-cost Pb-Co-Sn film for the oxygen evolution reaction in acid media“, Journal of the Electrochemical Society 168(5), 052505 (2021), **@2021** **1.000**

119. Wang, Z., Aji, A.T., Wilson, B.P., (...), Møll, M., Lundström, M., „Modelling the effect of solution composition and temperature on the conductivity of zinc electrowinning electrolytes“, Metals 11(11), 1824 (2021), **@2021** **1.000**

120. Xie, Z., Chang, J., Tao, C., (...), Luan, J., Liu, Z., „Polyacrylonitrile-based carbon fiber as anode for manganese electrowinning: Anode slime emission reduction and metal dendrite control“, Journal of the Electrochemical Society 168(1), 013501, (2021), **@2021** **1.000**

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

Цитира се в:

121. Hristova E., Tchoukov P., Stoyanov S., Coalescence inhibition and agglomeration initiation near the critical dilution of asphaltene precipitation Colloids and Surfaces A: Physicochemical and Engineering Aspects, Vol629, 20, 127400, 2021, , **@2021** **1.000**

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

Цитира се в:

122. Gao, YW; Pastrana, APC; (...); van Duin, ACT, Molecular dynamics study of melting, diffusion, and sintering of cementite chromia core–shell particles COMPUTATIONAL MATERIALS SCIENCE 199 , 110721 DOI:10.1016/j.commatsci.2021.110721, **@2021** **1.000**

123. Lee, H.B., Chen, J., Meng, S., (...), Lee, H.J., Na, K.-H., Characterization of oxide layers formed on type 316 stainless steel exposed to the simulated PWR primary water environment with varying dissolved hydrogen and zinc concentrations, Journal of Nuclear Materials 556, 153193. https://doi.org/10.1016/j.jnucmat.2021.153193, **@2021** **1.000**

124. Nabizadeh, M; Boissy, C; (...); Hauffman, T, The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment, CORROSION SCIENCE 181, 2021, 109206, **@2021** Линк **1.000**

55. Stefanov, P., **Stoychev, D.**, Valov, I., Kakanakova-Georgieva, A., Marinova, T.. Electrochemical deposition of thin zirconia films on stainless steel 316 L. Materials Chemistry and Physics, 65, 2, Elsevier, 2000, ISSN:2540584, DOI:10.1016/S0254-0584(00)00251-0, 222-225. SJR:0.818, ISI IF:2.259

Цитира се в:

125. Cano, F.J., Castilleja-Escobedo, O., Espinoza-Pérez, L.J., Reynosa-Martínez, C., Lopez-Honorato, E., "Effect of Deposition Conditions on Phase Content and Mechanical Properties of Yttria-Stabilized Zirconia Thin Films Deposited by Sol-Gel/Dip-Coating", Journal of Nanomaterials, vol. 2021, Article ID 4449890, 9 pages, 2021. https://doi.org/10.1155/2021/4449890, **@2021** **1.000**

126. Domínguez, M.I., Centeno, M.A., Martínez T., M., (...), Laguna, Ó.H., Odriozola, J.A., Current scenario and prospects in manufacture strategies for glass, quartz, polymers and metallic microreactors: A comprehensive review, Chemical Engineering Research and Design 171, pp. 13-35, DOI: 10.1016/j.cherd.2021.05.001, **@2021** **1.000**

127. Effect of Mn Doping on Physical Characterization of ZrO 2 Thin Films by Green spraying technique Internat.J.Mechanical Eng, Vol.7, 1941-1950, https://www.researchgate.net/publication/357469504 Asmaa Mohammed Raoof Lamyaa Mohammed Raoof Qasim Chfat Abdulridha, , **@2021** **1.000**

128. Svetlov, S.D.; Sladkovskiy, D.A.; Semikin, K.V.; Utemov, A.V.; Abiev, R.S.; Rebrov, E.V. Synthesis of Thin Titania Coatings onto the Inner Surface of Quartz Tubes and Their Photoactivity in Decomposition of Methylene Blue and Rhodamine B. Catalysts 2021, 11, 1538. https://doi.org/10.3390/catal11121538, **@2021** **1.000**

56. **Tachev, D.**, Iorgov, D., **Armyanov, S.**. Magnetothermal investigation of crystallization of Ni-P amorphous alloys. Journal of Non-Crystalline Solids, 270, 3-Jan, 2000, ISSN:223093, 66-76. ISI IF:2.124

Цитира се в:

129. Cui Z., Pei C., Wu S., Fu S., Guo C., Fang Y., Yan M., Lan S., Feng T., “Ultrastable Ni-P amorphous alloy formed via high temperature electrodeposition”, J. Non Cryst. Solids, 551, paper # 120398 (2021), **@2021** Линк **1.000**

57. **Milchev, A**. Dynamical Monte Carlo study of equilibrium polymers. II. 2000

Цитира се в:

130. Camp, P.J., Ivanov, A.O., Sindt, J.O. " How chains and rings affect the dynamic magnetic susceptibility of a highly clustered ferrofluid".Physical Review E 103(6), 062611, 2021, **@2021** Линк **1.000**

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

Цитира се в:

131. Lee, N.-K., Jung, Y., Johner, A., Joanny, J.-F. "Globular Polyampholytes: Structure and Translocation". Macromolecules, 54 (5), pp. 2394-2411, 2021, **@2021** Линк **1.000**

132. Rumyantsev, A.M., Jackson, N.E., Johner, A., De Pablo, J.J. "Scaling Theory of Neutral Sequence-Specific Polyampholytes". Macromolecules, 54 (7), pp. 3232-3246, 2021, **@2021** Линк **1.000**

133. Rumyantsev, A.M., Johner, A., De Pablo, J.J. "Sequence Blockiness Controls the Structure of Polyampholyte Necklaces". ACS Macro Letters, 10 (8), pp. 1048-1054, 2021, **@2021** Линк **1.000**

2001

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

Цитира се в:

134. DÍAZ, Eliseo Narciso et al. REACCIÓN DE REDUCCIÓN DE OXÍGENO EN SUPERFICIE DE AU SOBRE TI CON ÓXIDO FORMADO POTENCIODINÁMICAMENTE ANTES Y DESPUÉS DEL DEPÓSITO DE AU. ANALES AFA, [S.l.], v. 32, n. 1, p. 7-14, abr. 2021. ISSN 1850-1168. Disponible en: , **@2021** **1.000**

135. Maniam, K.K., Chetty, R., Thimmappa, R., Paul, S., Progress in the Development of Electrodeposited Catalysts for Direct Liquid Fuel Cell Applications, Applied Sciences, DOI: 10.3390/app12010501, **@2021** **1.000**

136. Physics > Instrumentation and Detectors [Submitted on 3 Aug 2021] A concept for the extraction of the most refractory elements at CERN-ISOLDE as carbonyl complex ions J. Ballof, K. Chrysalidis, Ch.E. Düllmann, V. Fedosseev, E. Granados, D. Leimbach, B.A. Marsh, J.P. Ramos, A. Ringvall-Moberg, S. Rothe, T. Stora, S.G. Wilkins, A. Yakushev arXiv:2108.01745 [physics.ins-det] (or arXiv:2108.01745v1 [physics.ins-det] for this version), **@2021** **1.000**

137. Touni, A; Grammenos, OA; (...); Sotiropoulos, S, Iridium Oxide-Nickel-coated Titanium Anodes for the Oxygen Evolution Reaction, ELECTROCHIMICA ACTA 390, DOI: 10.1016/j.electacta.2021.138866, **@2021** **1.000**

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

Цитира се в:

138. Carboney, A. S., "MATHEMATICAL ANALYSIS OF CYCLIC AND SAMPLED CURRENT VOLTAMMETRIES FOR THE DESCRIPTION OF NUCLEATION AND GROWTH PROCESSES OF METALLIC NANOPARTICLES", June 2021 Thesis for: B.Sc. Chemistry and Nanotechnology Advisor: Marcelo Videa, Alfonso Crespo-Yapur, **@2021** **1.000**

139. Pham, R., Wang, S., Chien, H.-C., Chen, C.-L. "Capillary transfer: Numerical study of how topology affects the fluid flow rate into a planar microstructure with pseudopotential multiphase Lattice-Boltzmann method". Physics of Fluids 33(10), 102102, 2021, **@2021** Линк **1.000**

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

Цитира се в:

140. Iyer, D.J., Holkar, A., Srivastava, S., Polyelectrolyte Coagulants and Flocculants in Wastewater Treatment: A Fundamental Perspective, Chapter in Materials and Energy: Volume 17, edited By: Yoram Cohen, pp. 129-167 (2021), **@2021** Линк **1.000**

141. Lu, Z.-Q., Zhang, L.-L., Yan, Y., Wang, W., Polyelectrolytes of Inorganic Polyoxometalates: Acids, Salts, and Complexes, Macromolecules, 54 (14), pp. 6891-6900 (2021), **@2021** Линк **1.000**

142. Narambuena, C.F., Blanco, P.M., Rodriguez, A., Rodriguez, D.E., Madurga, S., Garcés, J.L., Mas, F., Non-monotonic behavior of weak-polyelectrolytes adsorption on a cationic surface: A Monte Carlo simulation study, Polymer, 212, art. no. 123170 (2021), **@2021** Линк **1.000**

143. Schatz, C., Delas, T., Fundamental and practical aspects in the formulation of colloidal polyelectrolyte complexes of chitosan and siRNA, Methods in Molecular Biology, 2282, pp. 297-327 (2021), **@2021** Линк **1.000**

144. Schoeller, J., Itel, F., Wuertz-Kozak, K., Fortunato, G., Rossi, R.M., pH-Responsive Electrospun Nanofibers and Their Applications, Polymer Reviews, DOI: 10.1080/15583724.2021.1939372 (2021), **@2021** Линк **1.000**

62. **Valova, E.**, Georgiev, I., **Armyanov, S.**, Delplanke, J-L., **Tachev, D.**, Tsacheva, Ts., Dille, J.. Incorporation of Zinc in Electroless Deposited Nickel-Phosphorus Alloys: I. a Comparative Study of Ni-P and Ni-Zn-P Coatings Deposition, Structure, and Composition. Journal of the Electrochemical Society, 148, 4, 2001, C266-C273. SJR (Scopus):1.258

Цитира се в:

145. Algul, H., Uysal, M., Alp, A. "A comparative study on morphological, mechanical and tribological properties of electroless NiP, NiB and NiBP coatings" (2021) Applied Surface Science Advances, 4, art. no. 100089, **@2021** Линк **1.000**

63. **Radeva, T.**, **Milkova, V.**, Petkanchin, I.. Structure and electrical properties of polyelectrolyte multilayers formed on anisometric colloidal particles. Journal of Colloid and Interface Science, 244, 1, 2001, ISSN:219797, DOI:10.1006/jcis.2001.7815, 24-30. ISI IF:5.091

Цитира се в:

146. Hubbe, M. (2021). Contributions of Polyelectrolyte Complexes and Ionic Bonding to Performance of Barrier Films for Packaging: A Review. BioResources, 16(2), 4544-4605., **@2021** Линк **1.000**

64. Arbib, M., Zhang, B., Lazarov, V., **Stoychev, D.**, Milchev, A., Buess-Herman, C.. Electrochemical nucleation and growth of rhodium on gold substrates. Journal of Electroanalytical Chemistry, 510, 1-2, Elsevier, 2001, ISSN:1572-6657, DOI:10.1016/S0022-0728(01)00545-9, 67-77. SJR:0.776, ISI IF:2.729

Цитира се в:

147. Amiri, M and Belanger, D, Zinc Electrodeposition in Acetate-based Water-in-Salt Electrolyte: Experimental and Theoretical Studies, CHEMELECTROCHEM 8 (14) , pp.2737-2745 DOI: 10.1002/celc.202100541, **@2021** **1.000**

148. ELECTRORRECUPERACIÓN DE METALES DEL GRUPO DEL PLATINO DE CONVERTIDORES CATALÍTICOS AUTOMOTRICES IE207 1898- 1912 B. Gudiño-Guzmán, N. Casillas, B. Solorzano-Villaseñor, V. E. Reyes-Cruz, M. Bárcena-Soto 31 DE M AYO – 4 DE J UNIO , 2010 Z ACATECAS MÉXICO XXV CONGRESO DE LA SOCIEDAD MEXICANA DE ELECTROQUÍMICA 3RD MEETING OF THE MEXICAN SECTION ECS https://www.researchgate.net/publication/277850394, **@2021** **1.000**

149. Fernández-Félix, T.C., Santana, J.A. , Atomic Structures of Single-Layer Nanoislands of Ni, Cu, Rh, Pd, Ag, Ir, Pt, Au Supported on Au(111) from Density Functional Theory Calculations, Surface Science, Volume 716, 121960, ISSN 0039-6028, https://doi.org/10.1016/j.susc.2021.121960., **@2021** **1.000**

150. Gupta, A., Srivastava, C. Assessment of the Nucleation and Growth Mechanism of Copper Electrodeposition Over Graphene Oxide. METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 52 (6) , pp.2522-2533https://doi.org/10.1007/s11661-021-06245-1, **@2021** **1.000**

151. PROFUNDO, Disolvente Eutéctico. Mecanismo y Cinética de la Formación Electroquímica de Nanopartículas de Pd sobre Carbono Vítreo, a partir de un. OXIDACIÓN ELECTROQUÍMICA DE ÁCIDO FÓRMICO USANDO NANOPARTÍCULAS DE Pd Y PdFe. INFLUENCIA DEL MÉTODO DE SÍNTESIS Y DEL SOPORTE CARBONOSO, 2021, 187-210. CAPÍTULO 4 Mecanismo y Cinética de la Formación Electroquímica de Nanopartículas de Pd sobre Carbono Vítreo, a partir de un Disolvente Eutéctico Profundo (Relihttp://zaloamati.azc.uam.mx/bitstream/handle/11191/7613/Oxidacion_electroquimica_Juarez_Marmolejo_L_2021.pdf?sequence = 1#page = 208., **@2021** **1.000**

152. Shenggui Liu, Chaojiang Li, Hossain Md Jaber, Yuxin Yang, Fan Zhang*, and Hui Jin, Influence of Pre-Adsorbed TiO2 Particles on the Nucleation and Growth Mechanism of Ni in Deep Eutectic Solvent Electro-Codeposition, J. Phys. Chem. C 2022 DOI: 10.1021/acs.jpcc.1c09961 Shenggui LiuChaojiang LiHossain Md JaberShow all 6 authorsHui Jin, **@2021** **1.000**

153. Single Atom Nucleation of Cobalt Over Graphene Oxide: Theory and Experimental Study June 2020Langmuir XXXX(XXX) DOI: 10.1021/acs.langmuir.0c00798 Abhay GuptaChandan SrivastavaChandan Srivastava, **@2021** **1.000**

154. Vazquez-Lizardi, GA; Cruz-Sanchez, RM and Santana, JA, Simulation of metal-supported metal-Nanoislands: A comparison of DFT methods, Surface Science Volume 712, 2021, 121889 https://doi.org/10.1016/j.susc.2021.121889, **@2021** **1.000**

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

Цитира се в:

155. Chen, X., Chen, J., Alghoraibi, N.M., Henckel, D.A., Zhang, R., Nwabara, U.O., Madsen, K.E.., Kenis, P.J.A, Zimmerman, S.C., Gewirth, A.A., "Electrochemical CO2-to-ethylene conversion on polyamine-incorporated Cu electrodes", Nature Catalysis, 4, 20–27, 2021, **@2021** **1.000**

156. Chen, X., " Electrochemical and spectroscopic insights into the electroreduction of carbon dioxide to value added chemicals", University of Illinois at Urbana-Champaign, 2021, **@2021** Линк **1.000**

157. Sun, Zh., Hu, Y., Zhou, D., Sun, M., Wang Sh., and Chen, Wenxing, "Factors Influencing the Performance of Copper-Bearing Catalysts in the CO2 Reduction System", ACS Energy Lett. , 6, 11, 3992–4022, 2021, **@2021** Линк **1.000**

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

Цитира се в:

158. Millan-Ocampo, D.E., Porcayo-Calderon, J., Alvarez-Gallegos, A., Solís-Perez, J.E., Hernandez-Perez, J.A.., Silva-Martínez, S., "Electrochemical deposition of copper using a modified electrode with polyanilinefilm:Experimental analysis and ANN-based prediction", J. Taiwan Inst. Chem. Engineers 2021, **@2021** Линк **1.000**

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

Цитира се в:

159. Harmat, A.L., Javan Nikkhah, S., Sammalkorpi, M. "Dissipative particle dynamics simulations of H-shaped diblock copolymer self-assembly in solvent". **1.000**

Polymer, 233, art. no. 124198, 2021, **@2021** Линк

160. Majumder, S., Marenz, M. , Paul, S. , Janke W. "Knots are Generic Stable Phases in Semiflexible Polymers". Macromolecules, 54 (12), pp. 5321-5334, 2021, **@2021** Линк **1.000**

161. Paul, S., Majumder, S., Janke, W. "Motion of a polymer globule with Vicsek-like activity: from super-diffusive to ballistic behavior". Soft Materials, 19 (3), pp. 306-315., 2021, **@2021** Линк **1.000**

162. Vena, M.P., de Moor, D., Ianiro, A., Tuinier, R., Patterson, J.P. "Kinetic state diagrams for a highly asymmetric block copolymer assembled in solution". Soft Matter, 17 (4), pp. 1084-1090, 2021., **@2021** Линк **1.000**

68. **Milchev, A**. Polymer melt droplets adsorbed on a solid wall: A Monte Carlo simulation. 2001

Цитира се в:

163. Harmat, A.L., Javan Nikkhah, S., Sammalkorpi, M. "Dissipative particle dynamics simulations of H-shaped diblock copolymer self-assembly in solvent (2021) Polymer, 233, art. no. 124198, ., **@2021** Линк **1.000**

164. Knots are Generic Stable Phases in Semiflexible Polymers (2021) Macromolecules, 54 (12), pp. 5321-5334., **@2021** Линк **1.000**

165. Paul, S., Majumder, S., Janke, W. "Motion of a polymer globule with Vicsek-like activity: from super-diffusive to ballistic behavior" (2021) Soft Materials, 19 (3), pp. 306-315., **@2021** Линк **1.000**

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

Цитира се в:

166. Esmaeil Jafari. "Improving the Corrosion Resistance of Carbon Steel by Ni–P Nano-Structured Coating", Russ. J. Electrochem., 57, 663–670 (2021), **@2021** Линк **1.000**

70. Kokkinidis, G., **Stoychev, D.**, Lazarov, V., Papoutsis, A., Milchev, A.. Electroless deposition of Pt on Ti: Part II. Catalytic activity for oxygen reduction. Journal of Electroanalytical Chemistry, 511, 1-2, Elsevier, 2001, ISSN:1572-6657, DOI:10.1016/S0022-0728(01)00505-8, 20-30. SJR:0.776, ISI IF:2.729

Цитира се в:

167. ACHARI, Innocent. Synthesis and Characterization of Ultra-Thin Films of Palladium, Platinum and Their Alloys on Gold Substrate and Their Comparative Assessment as Formic Acid Oxidation Catalysts. 2021. PhD Thesis. State University of New York at Binghamton., **@2021** **1.000**

168. Touni, A; Grammenos, OA; (...); Sotiropoulos, S, Iridium Oxide-Nickel-coated Titanium Anodes for the Oxygen Evolution Reaction, ELECTROCHIMICA ACTA 390, DOI: 10.1016/j.electacta.2021.138866, **@2021** **1.000**

2002

71. **Boshkov, N.**, Petrov, K., Vitkova, S., Nemska, S., Raichevsky, G.. Composition of the corrosion products of galvanic alloys Zn-Co and their influence on the protective ability. Surface and Coatings Technology, 157, 3-Feb, 2002, ISSN:2578972, DOI:10.1016/S0257-8972(02)00161-5, 171-178

Цитира се в:

169. Zhu, X., Guo, P., Yang, L., Xu, C., Geng, F., Shen, J., Lu, T., Sun, W., Song, Z., (2021). "Comparison of the in vitro corrosion behavior of biodegradable pure Zn in SBF, 0.9% NaCl, and DMEM", Materials and Corrosion, 72, 10, 1687-1701, **@2021** Линк **1.000**

72. **D. Stoychev**, P. Stefanov, **D. Nicolova**, I. Valov, Ts. Marinova. Chemical composition and corrosion resistance of passive chromate films formed on stainless steels 316 L and 1.4301. Materials Chemistry and Physics, 73, 2-3, Elsevier, 2002, ISSN:0254-0584, DOI:10.1016/S0254-0584(01)00376-5, 252-258. SJR:0.818, ISI IF:2.259

Цитира се в:

170. Zhang, H., Zuo, Y., Ju, P., Zhang, J., Zhao, X., Tang, Y. and Zhang, X. (2021), "Strengthened passivation and mechanism of 316L stainless steel in hot diluted sulfuric acid solution by connecting to Pd electrode", Anti-Corrosion Methods and Materials, Vol. 68 No. 3, pp. 248-254. https://doi.org/10.1108/ACMM-06-2020-2335, **@2021** **1.000**

2003

73. Daftsis, E., Pagalos, N., Jannakoudakis, A., Jannakoudakis, P., Theodoridou, E., **Rashkov, R.**, Loukaytsheva, M., Atanassov, N.. Preparation of a carbon fiber-nickel-type material and investigation of the electrocatalytic activity for the hydrogen evolution reaction. Journal of the Electrochemical Society, 150, 11, 2003, ISSN:134651, DOI:10.1149/1.1611492, C787-C793

Цитира се в:

171. Gómez M.J., Benavente Llorente V., Lacconi G.I."Facile electrodeposition of NiCo-TiO2 composite coatings for enhanced hydrogen evolution reaction".Journal of Electroanalytical ChemistryVolume 89515 August 2021 Article number 115453, **@2021** Линк **1.000**

172. Gómez M.J., Lucci R.O., Franceschini E.A., Lacconi G.I."Effect of TiO2 content on Ni/TiO2 composites electrodeposited on SS316L for hydrogen evolution reaction".Electrochimica ActaVolume 37810 May 2021 Article number 138136, **@2021** Линк **1.000**

173. Loiacono A., Gomez M.J., R. Negreiros F., Olmos-Asar J.A., Mariscal M.M., Lacconi G.I., Franceschini E.A."MoS2Effect on Nickel Electrochemical Activation: An Atomistic/Experimental Approach".Journal of Physical Chemistry CVolume 125, Issue 34, Pages 18640 - 186522 September 2021, **@2021** Линк **1.000**

174. Ysea N., Diaz L.A., Lacconi G.I., Franceschini E.A."Stability Study of Materials for Electrode Supports for the Hydrogen Generation from a NaCl Aqueous Solution".ElectrocatalysisVolume 12, Issue 5, Pages 537 - 547September 2021, **@2021** Линк **1.000**

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

Цитира се в:

175. Allam, L., Lazar, F., Benfedda, B., Chopart, J., (2021). "Zn-Mn alloy coating elaboration by magnetoelectrodeposition", Journal of Solid State Electrochemistry, 25, 2041-2053, **@2021** Линк **1.000**

176. Deo Y., Ghosh R., Nag A., Kumar D.V., Mondal R., Banerjee A., "Direct and pulsed current electrodeposition of Zn-Mn coatings from additive-free chloride electrolytes for improved corrosion resistance", Electrochimica Acta, 399, 2021, 139379, **@2021** Линк **1.000**

177. Grandhi S., Raja V.S., Parida S., "Effect of manganese addition on the appearance, morphology, and corrosion resistance of hot-dip galvanized zinc coating", Surface and Coatings Technology, (2021), 421. 127377, **@2021** Линк **1.000**

178. Loukil, N., Feki, M., "Effect of sodium diisopropylnaphthalene sulfonate on Zn-Mn alloys electrodeposition", J. Solid State Electrochem., 25, 339-350, **@2021** Линк **1.000**

179. Loukil, N., Feki, M., "Chronopotentiometric Study and Morphological-Structural Characterization of Environmentally Friendly Protective Zn-Mn Coatings", Journal of The Electrochemical Society, 168, 073501, **@2021** Линк **1.000**

180. Patent US11066752B2, COMPOSITIONALLY MODULATED ZINC-MANGANESE MULTI-LAYERED COATINGS Inventors: Stephen P. Gaydos, St. Louis, MO (US); Vijaykumar S. Ijeri, Bangalore (IN): Om Prakash , Bangalore (IN); Shashi Kant Tiwari, Jamshedpur (IN); Raghuvir Singh, Jamshedpur (IN); Sharma Paswan, Jamshedpur (IN); Lokesh C. Pathak, Jamshedpur (IN), **@2021** Линк **1.000**

181. Riđošić, M., Bučko, M., Salicio, A., García-Lecina, E., Živković, L., Bajat, J., "Ceria Particles as Efficient Dopant in the Electrodeposition of Zn-Co-CeO2 Composite Coatings with Enhanced Corrosion Resistance: The Effect of Current Density and Particle Concentration", Molecules, 26, 15, 4578., **@2021** Линк **1.000**

75. **Exerowa, D.**, Churaev, N.V., Kolarov, T., Esipova, N.E., **Panchev, N.**, Zorin, Z.M.. Foam and wetting films: Electrostatic and steric stabilization. Advances in Colloid and Interface Science, 104, 3-Jan, 2003, ISSN:18686, DOI:10.1016/S0001-8686(03)00033-2, 1-24. ISI IF:7.776

Цитира се в:

182. Guo, Z., Wang, L., Wang, Y., Yang, J.-G., Zhou, Y., Effect of surface chemical heterogeneity on kinetics of three phase contact formation, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 616, 126348, DOI: 10.1016/j.colsurfa.2021.126348 (2021), **@2021** Линк **1.000**

76. **Stoychev, D.**, Valov, I., Stefanov, P., Atanasova, G., Stoycheva, M., Marinova, Ts.. Electrochemical growth of thin La2O3 films on oxide and metal surfaces. Materials Science and Engineering C, 23, 1-2, Elsevier, 2003, ISSN:9284931, DOI:10.1016/S0928-4931(02)00261-8, 123-128. SJR:0.672, ISI IF:3.088

Цитира се в:

183. Rehman, Y; Morlando, A; (...); Konstantinov, K, Defect-Rich La 2 O 3 Nanoparticles with Antioxidant Activity for Human Keratinocytes, ACS APPLIED NANO MATERIALS 4 (6) , pp.6345-6356 DOI: 10.1021/acsanm.1c01177, **@2021** **1.000**

77. **Mirkova, L.**, Maurin, G., **Monev, M.**, Tsvetkova, Chr.. Hydrogen coevolution and permeation in nickel electroplating. Journal of Applied Electrochemistry, 33, 1, Kluwer Academic Publisher, 2003, ISSN:0021-891X, DOI:10.1023/A:1022957600970, 93-100. SJR:0.676, ISI IF:2.28

Цитира се в:

184. Fukuda, K., Kashiwa, Y., Oue, S., Takas, T., "Effect of Additives on the Deposition Behavior and Micro Structure of Invar Fe–Ni Alloys with Low Thermal Expansion Electrodeposited from Watt's Solution", ISIJ International, 61(3), 919–928, 2021, **@2021** **1.000**

185. Mieszkowska, M., Grdeń, M., "Electrochemical deposition of nickel targets from aqueous electrolytes for medical radioisotope production in accelerators: a review", J Solid State Electrochem 25, 1699–1725, 2021, **@2021** Линк **1.000**

186. Zayat, B., Mitra, D., Irshad, A., Rajan, A.S., … "Inexpensive and Robust Iron-based Electrode Substrates for Water Electrolysis and Energy Storage", Current Opinion in Electrochemistry, 25, 100628, 2021, **@2021** Линк **1.000**

78. **Milchev, A**. Interface localization-delocalization in a double wedge: A new universality class with strong fluctuations and anisotropic scaling. 2003

Цитира се в:

187. López-Castaño, M.A., González-Saavedra, J.F., Rodríguez-Rivas, A., Abad, E., Yuste, S.B., Vega Reyes, F. "Pseudo-two-dimensional dynamics in a system of macroscopic rolling spheres". Physical Review E, 103 (4), art. no. 042903, 2021, **@2021** Линк **1.000**

188. Malijevský, A., Parry, A.O. "Capillary condensation and depinning transitions in open slits". Physical Review E, 104 (4), art. no. A60, 2021, **@2021** Линк **1.000**

79. Tyuliev, G., Panayotov, D., Avramova, I., **Stoychev, D.**, Marinova, Ts.. Thin-film coating of Cu-Co oxide catalyst on lanthana/zirconia films electrodeposited on stainless steel. Materials Science and Engineering: C, 23, Elsevier, 2003, ISSN:0928-4931, DOI:10.1016/S0928-4931(02)00251-5, 117-121. SJR:0.672, ISI IF:3.088

Цитира се в:

189. Wang, W., Liang, R., Zhou, Z., Zhang, Y., Dong, X., Defect engineering for reduced large AC signal dielectric loss of PZT-based hard piezoelectric ceramics, Journal of the American Ceramic Society, First published: 17 July 2021 https://doi.org/10.1111/jace.18036, **@2021** **1.000**

80. J. Yaneva, **A. Milchev**, K. Binder. Dynamics of a Spreading Nanodroplet: A Molecular Dynamic Simulation, Macromol. Theorry & Simul. 2003

Цитира се в:

190. Kubochkin, N., Gambaryan-Roisman, T. "Surface force-mediated dynamics of droplets spreading over wetting films". Physics of Fluids 33(12), 122107, 2021, **@2021** Линк **1.000**

81. **Milchev, A**. Wedge filling and interface delocalization in finite Ising lattices with antisymmetric surface fields. 2003

Цитира се в:

191. Malijevský, A., Parry, A.O. "Capillary condensation and depinning transitions in open slits". Physical Review E 104(4), A60, 2021, **@2021** Линк **1.000**

2004

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

Цитира се в:

192. Nikolaieva, D., Honcharov, V., Ivashin, D., & Zazhigalov, V. (2021). Use of Spectroscopy and Computer Simulation to the Study of Surfaces Modified by Ionic Implantation. UKRAINIAN JOURNAL OF PHYSICS 66 (6) , pp.511-517. https://doi.org/10.15407/ujpe66.6.511, **@2021** **1.000**

193. Shen, L., Wu, B., Zhao, K., Peng, H., Wen, Y., Reason for negative effect of Nb addition on oxidation resistance of alumina-forming austenitic stainless steel at 1323 K, Corrosion Science, Volume 191, 2021, 109754, ISSN 0010-938X, https://doi.org/10.1016/j.corsci.2021.109754Corrosion Science, **@2021** **1.000**

83. Boiadjieva, Tz., Kovacheva, D., Petrov, K., Hardcastle, S., **Monev, M.**. Effect of anodic treatment on the composition and structure of electrodeposited Zn-Cr alloy coatings. Corrosion Science, 46, 3, 2004, ISSN:0010938X, DOI:10.1016/S0010-938X(03)00178-1, 681-695

Цитира се в:

194. Osuchowska, E., Buczko, Z., Olkowicz, K., "Zn-Cr Alloy Coatings: Electrodeposition and Properties", Journal of KONBiN, Warsaw, 51(1), 29-42, 2021, **@2021** Линк **1.000**

195. Zhuang, R., Tan, Y., Liu, Y., ...Ouyang, Y., Du, Y., "Interdiffusion behaviors and mechanical properties of Zn–Cr system", Calphad, 74, 102308, 2021, **@2021** Линк **1.000**

84. Boiadjieva, Tz., Kovacheva, D., Petrov, K., Hardcastle, S., Sklyarov, A., **Monev, M.**. "Electrodeposition, composition and structure of Zn-Cr alloys". Journal of Applied Electrochemistry, 34, 3, 2004, ISSN:0021891X, DOI:10.1023/B:JACH.0000015609.43585.ef, 315-321. SJR (Scopus):0.798

Цитира се в:

196. Morgenstern, R., Müller, M., Höhlich, D., Mehner, T., [...], "Electrolyte design and characterization of REACh-compliant Zn-W and Zn-W-Cu electrodeposits", IOP Conf. Ser.: Mater. Sci. Eng. 1147, 012004, 2021, **@2021** **1.000**

197. Osuchowska, E., Buczko, Z., Olkowicz K., "Zn-Cr Alloy Coatings: Electrodeposition and Properties", Journal of KONBiN, Warsaw, 51(1), 29-42, 2021, **@2021** Линк **1.000**

198. Pistofidis, N., Vourlias, G., Stergioudis, G., Polychroniadis, E.K., Tsipas, D., "Hot-Dip Galvanized and Alternative Zinc Coatings", researchgate.net, **@2021** **1.000**

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

Цитира се в:

199. Yifru, A., Dare, G., Demissie, T.B., Mehretie, S., Admassie, Sh., "Cheap and sensitive polymer/bismuth film modified electrode for simultaneous determination of Pb(II) and Cd(II) ions", Helyon, 7, e08215, 2021, **@2021** Линк **1.000**

86. Stefanov, P., Atanasova, G., **Stoychev, D.**, Marinova, Ts.. Electrochemical deposition of CeO2 on ZrO2 and Al2O3 thin films formed on stainless steel. Surface and Coatings Technology, 180-181, Elsevier, 2004, ISSN:2578972, DOI:10.1016/j.surfcoat.2003.10.083, 446-449. SJR:0.96, ISI IF:1.998

Цитира се в:

200. Ajay Saini, Dalip Singh The Effect of Coating Morphology on Anti-Corrosion Behavior of Modified Alumina Coating Over Aluminum Alloy. Protection of Metals and Physical Chemistry of Surfaces 57(5), pp. 995-1001 (2021). https://doi.org/10.1134/S2070205121050221, **@2021** **1.000**

201. Gao, R., Liu, X., Zhang, T.C., (...), Liang, Y., Yuan, S., Superhydrophobic Copper Foam Modified with n-Dodecyl Mercaptan-CeO2 Nanosheets for Efficient Oil/Water Separation and Oil Spill Cleanup, Industrial & Engineering Chemistry Research Article ASAP DOI: 10.1021/acs.iecr.0c04515, **@2021** **1.000**

202. Jakeria, MR; Ward, L and Cole, I, Long term durability studies on the corrosion inhibition effect of 2-mer-captobenzimidazole (C3H4N2S) on AA6022: Mechanism of film formation and influence of IMPs, Aug 2021 | SURFACES AND INTERFACES 25 DOI: 10.1016/j.surfin.2021.101164, **@2021** **1.000**

203. Rouabhia, F; Hamlaoui, Y; (...); Pedraza, F, Corrosion properties of ceria-based coating electrodeposited from alkaline bath on electrogalvanized steel, JOURNAL OF APPLIED ELECTROCHEMISTRY 51 (4) , pp.567-580 DOI: 10.1007/s10800-020-01517-x F. RouabhiaYoucef HamlaouiYoucef HamlaouiA. MeroufelF. PedrazaF. Pedraza, **@2021** **1.000**

204. Saini Ajay , Singh Dalip, The Effect of Coating Morphology on Anti-Corrosion Behavior of Modified Alumina Coating Over Aluminum Alloy. Prot Met Phys Chem Surf 57, 995–1001 (2021). https://doi.org/10.1134/S2070205121050221, **@2021** **1.000**

205. Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption Energies of Oxygenated Intermediates Yao, Hui Teng Tan, Khang Ngoc Dinh, Chen Wu, Min Kuang, Wei Fang, Raksha Dangol, Li Song, Kun Zhou, Chuntai Liu, Jian Wei Xu, Bin Liu*, and Qingyu Yan* ACS Nano 2020, 14, 12, 17640–17651 https://doi.org/10.1021/acsnano.0c08571 American Chemical Society, **@2021** **1.000**

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

Цитира се в:

206. Tan, F., Chen, Y., Zhao, N. "Effects of active crowder size and activity-crowding coupling on polymer translocation" Soft Matter, 17 (7), pp. 1940-1954, 2021, **@2021** Линк **1.000**

207. Tilahun, M., Tatek, Y.B. "End-Pulled Translocation of a Star Polymer Out of a Confining Cylindrical Cavity". Macromolecular Theory and Simulations, 30 (2), art. no. 2000090, 2021, **@2021** Линк **1.000**

208. Zhang, D., Yan, L., Yue, B., Hu, Y., Wang, Z., Lv, W., Wang, H. "Coarse-grained hybrid Monte Carlo/molecular dynamics simulations of the nanophase separated morphology of polysulfone grafted with phosphonated sidechain for proton exchange membrane fuel cells". International Journal of Hydrogen Energy, 46 (52), pp. 26402-26414, 2021, **@2021** Линк **1.000**

88. Gadjov H, Gorova M, Kotzeva V, **Avdeev G**, Uzunova S, Kovacheva D. LiMn2O4 prepared by different methods at identical thermal treatment conditions: Structural, morphological and electrochemical characteristics. Journal of Power Sources, 134, 1, 2004, 110-117. ISI IF:6.3 **(x)**

Цитира се в:

209. Sun, J., Jiang, Z., Yu, G., Jia, P., Wang, W., Microwave-assisted recycling perspectives on valuable cathode active materials for lithium ion batteries: An overview [**微波技**术在锂离子电池正极材料高效回收再利用中的研究进展], (2021) Chinese Journal of Environmental Engineering, 15 (7), pp. 2191-2217., **@2021** Линк **1.000**

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

Цитира се в:

210. Lu, Y., Wang, Z., Lijia An, L., Shi, An-Ch., "Polymer Translocation Time", 2021 Journal of Physical Chemistry Letters, 2021, 12, 47, 11534–11542, DOI: 10.1021/acs.jpclett.1c03202, **@2021** **1.000**

90. **E. Mileva**, B. Radoev. Hydrodynamic Interactions and Stability of Emulsion Films. Emulsions: structure stability and Interactions, 4, Elsevier, 2004, ISBN:9780120884995, 43, 215-258

Цитира се в:

211. Mostowfi Farshid, Tchoukov Plamen, Panchev Nikolay, Dabros Tadeusz and Czarnecki Jan "Electrohydrodynamic Instabilities in Free Emulsion Films" Colloids Interfaces 2021, 5(3), 36; https://doi.org/10.3390/colloids5030036, **@2021** Линк **1.000**

91. **Stoyanova, E.**, Takeva, St., Kostov, Z., **Stoychev, D.**. Decorative and corrosion-protective effect upon colouring anodised aluminium with azodyes. Transactions of the Institute of Metal Finishing, 82, 6-May, 2004, ISSN:202967, 157-163. ISI IF:0.688

Цитира се в:

212. Munteanu, G., Karakashkova, P., Eliyas, A., Parameter optimization of a semi-batch water decontamination slurry photocatalytic reactor using Taguchi-Grey technique, Bulgarian Chemical Communications 53(4), pp. 442-446, DOI: 10.34049/bcc.53.4.5442442, **@2021** **1.000**

92. Boiadjieva, Tz., **Monev, M.**. Determination of zinc and chromium (III) in electrolytes for electrodeposition of zinc-chromium alloy coatings [Bestimmung von Zink und Chrom(III) in Elektrolyten zur Abscheidung von Zink/Chrom-Legierungsschichten]. Galvanotechnik, 95, 8, 2004, ISSN:164232, 1848-1850+iv

Цитира се в:

213. Pistofidis, N., Vourlias, G., Stergioudis, G., Polychroniadis, E.K., Tsipas, D., "Hot-Dip Galvanized and Alternative Zinc Coatings", researchgate.net, **@2021** **1.000**

93. **Armyanov, S**, **Valova, E**, Franquet, A, Dille, J, Delplancke, J.-L., Hubin, A., Steenhaut, O, Kovacheva, D, **Tatchev, D**, **Vassilev Ts**. Crystalline and amorphous electroless Co-W-P coatings. Journal of the Electrochemical Society, 152, 9, Electrochemical Society, 2005, ISSN:00134651, DOI:10.1149/1.1990124, C612-C619. ISI IF:2.19

Цитира се в:

214. H. Deligianni, W. J. Gallagher, A. J. Kellock, E. J. O'Sullivan, L. T. Romankiw, N. Wang, High resistivity soft magnetic material for miniaturized power converter, USP 10, 971, 576 B2 (2021), **@2021** Линк **1.000**

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

Цитира се в:

215. Glagoleva, A.A., Vasilevskaya, V.V. " Multichain adsorption at fluid interfaces: Amphiphilic homopolymers vs copolymers". Journal of Colloid and Interface Science 585, pp. 408-419, 2021, **@2021** Линк **1.000**

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

Цитира се в:

216. Deptuch, A; Jasiurkowska-Delaporte, M; (...); Urbanska, M PHYSICAL CHEMISTRY CHEMICAL PHYSICS 23 (35) , pp.19795-19810 2021, **@2021** **1.000**

217. Drzewicz, A; Jasiurkowska-Delaporte, M; (...); Kula, P, Effect of high pressure on relaxation dynamics and crystallization kinetics of chiral liquid crystal in its smectic phase, PHYSICAL CHEMISTRY CHEMICAL PHYSICS 23 (32) , pp.17466-17478 2021, **@2021** **1.000**

218. Drzewicz, A; Jasiurkowska-Delaporte, M; (...); Kula, P, On the relaxation dynamics of a double glass-forming antiferroelectric liquid crystal dagger, PHYSICAL CHEMISTRY CHEMICAL PHYSICS 23 (14) , pp.8673-8688 , 2021, **@2021** **1.000**

219. Rodriguez-Lopez, S and Pascual, M, CRYSTALS 11 (7) , 2021, **@2021** **1.000**

96. **Tatchev, D.**, Hoell, A., Kranold, R., **Armyanov, S.**. Size distribution and composition of magnetic precipitates in amorphous Ni-P alloy. Physica B: Condensed Matter, 369, 4-Jan, 2005, ISSN:9214526, DOI:10.1016/j.physb.2005.07.006, 8-19

Цитира се в:

220. Neuville, D. R, Cornier, L., Caurant, D., Montagne, L., "From glass to crystal: Nucleation, growth and phase separation: from research to applications", In the series Science des matériaux, Les Ulis: EDP Sciences, 2021., **@2021** Линк **1.000**

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

Цитира се в:

221. Allam, L., Lazar, F., Benfedda, B., Chopart, J., (2021). "Zn-Mn alloy coating elaboration by magnetoelectrodeposition", Journal of Solid State Electrochemistry, 25, 2041-2053, **@2021** Линк **1.000**

222. Maniam K.K., Paul S., "Corrosion Performance of Electrodeposited Zinc and Zinc-AlloyCoatings in Marine Environment", Corrosion and Materials Degradation, 2, 2, 2021, 163-189, **@2021** Линк **1.000**

223. Senfelder M., PhD Thesis, "Ochranné kovové povlaky a povlaky s obsahem kovových pigmentů určené na konstrukční ocel", Univerzita Pardubice Fakulta Chemicko-Technologická, 2021, **@2021** Линк **1.000**

224. Touazi S., Bučko M., Makhloufi L., Bajat J., "Zn–Mn alloy coatings electrodeposited from acidic sulfate-citrate bath", Materials Today: Proceedings, 2021, **@2021** Линк **1.000**

98. Ivanov, S., **Tsakova, V.**. Electroless versus electrodriven deposition of silver crystals in polyaniline: Role of silver anion complexes. Electrochimica Acta, 50, 28, 2005, ISSN:134686, DOI:10.1016/j.electacta.2005.03.040, 5616-5623

Цитира се в:

225. San Martin, V.C. , "Electrochemical design and characterisation of AuxAg100-x thin films and nanostructures", University of Bristol, 2021, **@2021** **1.000**

99. Stefanov, P., Avramova, I., **Stoychev, D.**, Radić, N., Grbić, B., Marinova, Ts.. Characterization and catalytic activity of Cu–Co spinel thin films catalysts. Applied Surface Science, 245, Elsevier, 2005, 65-72. SJR:0.913, ISI IF:2.711

Цитира се в:

226. Ciotonea, C., Chirieac, A., Dragoi, B., (...), Ungureanu, A., Royer, S., Playing on 3D spatial distribution of Cu-Co (oxide) nanoparticles in inorganic mesoporous sieves: Impact on catalytic performance toward the cinnamaldehyde hydrogenation, Applied Catalysis A: General 623, 118303 https://doi.org/10.1016/j.apcata.2021.118303, **@2021** **1.000**

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

Цитира се в:

227. Bois R., Pezron I., Rotureau P., Rotureau P., Van Hecke E., Fayet G., Nesterenko A., Foaming behavior of sugar-based surfactants: influence of molecular structure and anticipation from surface properties, Journal of Dispersion Science and Technology, Article in Press, DOI: 10.1080/01932691.2021.1974877, **@2021** Линк **1.000**

228. Guo J., Zhou Z., Ming Q., Sun D., Li F., Xi J., Wu Q., Yang J., Xia, Q., Zhao X., Recovering chemical sludge from the zero liquid discharge system of flue gas desulfurization wastewater as flame retardants by a stepwise precipitation process, Journal of Hazardous Materials, 417, 126054. DOI: 10.1016/j.jhazmat.2021.126054, **@2021** Линк **1.000**

229. Miguet, J., Pasquet, M., Rouyer, F., Fang, Y., Rio, E., Marginal regeneration-induced drainage of surface bubbles (Open Access), Physical Review Fluids, 6(10), L101601. DOI: 10.1103/PhysRevFluids.6.L101601, **@2021** Линк **1.000**

230. Mortada N., Phelipot-Mardelé A., Lanos C., Effects of surfactants on aqueous foams properties: a step towards mineral foams, European Journal of Environmental and Civil Engineering, Article in Press, DOI: 10.1080/19648189.2021.1986139, **@2021** Линк **1.000**

231. Seneesrisakul K., Kanokkarn P., Charoensaeng A., Chavadej S., Motor oil removal from water by continuous froth flotation: The influence of surfactant structure on interfacial adsorption and foam properties, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 618, 126499. DOI: 10.1016/j.colsurfa.2021.126499, **@2021** Линк **1.000**

101. **Boshkov, N.**, Petrov, K., Vitkova, S., Raichevsky, G.. Galvanic alloys Zn-Mn - Composition of the corrosion products and their protective ability in sulfate containing medium. Surface and Coatings Technology, 194, 3-Feb, 2005, ISSN:2578972, DOI:10.1016/j.surfcoat.2004.09.016, 276-282

Цитира се в:

232. Allam, L., Lazar, F., Benfedda, B., Chopart, J., (2021). "Zn-Mn alloy coating elaboration by magnetoelectrodeposition", Journal of Solid-State Electrochemistry, 25, 2041-2053, **@2021** Линк **1.000**

233. Loukil N., Feki M., "Effect of operating parameters on Zn-Mn alloys deposited from additive-free chloride bath", Chapter 5, Book "Mechanical Engineering Technologies and Applications", vol. 1, 62-71, **@2021** Линк **1.000**

102. **Avramov, I.**, **Vassilev, T.**, Penkov, I.. The glass transition temperature of silicate and borate glasses. Journal of Non-Crystalline Solids, 351, 7-Jun, 2005, ISSN:223093, DOI:10.1016/j.jnoncrysol.2005.01.044, 472-476. ISI IF:1.766

Цитира се в:

234. Boonin, K., Yamsuk, Y., Yasaka, P. and Kaewkhao, J., 2021. Red Emission Glass from Mn2+ Doped in Zinc Barium Aluminoborate Glasses. Materials Today: Proceedings, 43, pp.2475-2483., **@2021** Линк **1.000**

235. Danewalia, S.S., Singh, K. and Arya, S.K., 2021. Influence of vanadium oxide on non-isothermal crystallization kinetics of zinc lithium borate glasses. Journal of Non-Crystalline Solids, 553, p.120471., **@2021** Линк **1.000**

236. Jiménez, J.A., 2021. Spectroscopic inquiry of CuO-doped borate glasses in the 50B2O3-25Li2O-25BaO ternary. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 262, p.120113., **@2021** Линк **1.000**

237. Jolivet, V., 2021. Synthèse de matrices vitreuses en conditions extrêmes dopées en iode: Application au stockage sous pression des radioisotopes produits de l'industrie nucléaire (Doctoral dissertation, Université de Nantes Faculté des sciences et des techniques)., **@2021** Линк **1.000**

238. Jolivet, V., Morizet, Y., Hamon, J., Paris, M. and Suzuki-Muresan, T., 2021. The influence of iodide on glass transition temperature of high-pressure nuclear waste glasses. Journal of the American Ceramic Society, 104(3), pp.1360-1369., **@2021** Линк **1.000**

239. Kim, S., Kumari, N., Lim, J., Dubbu, S., Kumar, A. and Lee, I.S., 2021. Silica Jar-with-Lid as Chemo-Enzymatic Nano-Compartment for Enantioselective Synthesis inside Living Cells. Angewandte Chemie., **@2021** Линк **1.000**

240. Kim, T.H., Takigawa, A., Tsuchiyama, A., Matsuno, J., Enju, S., Kawano, H. and Komaki, H., 2021. Condensation of cometary silicate dust using an induction thermal plasma system I. Enstatite and CI chondritic composition. arXiv preprint arXiv:2111.10955., **@2021** Линк **1.000**

241. Matsuno, J., Tsuchiyama, A., Watanabe, T., Tanaka, M., Takigawa, A., Enju, S., Koike, C., Chihara, H. and Miyake, A., 2021. Condensation of Glass with Multimetal Nanoparticles: Implications for the Formation Process of GEMS Grains. The Astrophysical Journal, 911(1), p.47., **@2021** Линк **1.000**

242. Nishida, T., Kubuki, S. and Oka, N., 2021. Local structure, glass transition, structural relaxation, and crystallization of functional oxide glasses investigated by Mössbauer spectroscopy and DTA. Journal of Materials Science: Materials in Electronics, 32(19), pp.23655-23689., **@2021** Линк **1.000**

243. Reiser, J.T., Lu, X., Parruzot, B., Liu, H., Subramani, T., Kaya, H., Kissinger, R.M., Crum, J.V., Ryan, J.V., Navrotsky, A. and Kim, S.H., 2021. Effects of Al: Si and (Al+ Na): Si ratios on the properties of the international simple glass, part I: Physical properties. Journal of the American Ceramic Society, 104(1), pp.167-182., **@2021** Линк **1.000**

244. Seymour, K. and Strock, C.W., Raytheon Technologies Corp, 2021. Abradable layer with glass microballoons. U.S. Patent 11, 111, 807., **@2021** **1.000**

103. **Ilieva, M.**, **Tsakova, V.**. Copper electrocrystallization in PEDOT in presence and absence of copper-polymer-stabilized species. Electrochimica Acta, 50, 8-Jul, 2005, ISSN:134686, DOI:10.1016/j.electacta.2004.10.018, 1669-1674

Цитира се в:

245. Luo, Zh., Su, Y., Yue, Sh., Yu, Q., Zhang, H., Zhang, J., " Electrodeposition of copper nanopowder with controllable morphology: influence of pH on the nucleation/growth mechanism", J. Solid State Electrochem. 25, 1611-1621, 2021, **@2021** **1.000**

104. Penkova, A., Gliko, O., **Dimitrov, I.L.**, **Hodjaoglu, F.V.**, Nanev, C., Vekilov, P.G.. Enhancement and suppression of protein crystal nucleation due to electrically driven convection. Journal of Crystal Growth, 275, 2-Jan, 2005, ISSN:220248, DOI:10.1016/j.jcrysgro.2004.11.186, e1527-e1532. SJR:0.772, ISI IF:1.698

Цитира се в:

246. Liu, Yao, Qiu, Qingqing, Ding, Guohua, You, Weixiong. "Effect of Acidic Polymers on the Morphology of Laser-Induced Nucleation of Cesium Chloride". ACS Omega 6, 2021, 2699–2706, **@2021** **1.000**

2006

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

Цитира се в:

247. Das, Santanu Kumar, Amaresh Dalal, and Gaurav Tomar. "Electrohydrodynamic-induced interactions between droplets". Journal of Fluid Mechanics, 915, 2021, **@2021** **1.000**

248. Goswami, Amrita, and Jayant K. Singh. "Homogeneous nucleation of sheared liquids: advances and insights from simulations and theory." Physical Chemistry Chemical Physics 23.29: 15402-15419, 2021, **@2021** **1.000**

249. Goswami, Amrita, Indranil Saha Dalal, and Jayant K. Singh. "Universal Nucleation Behavior of Sheared Systems." Physical Review Letters, 126.19: 195702, 2021, **@2021** **1.000**

250. Stojanoff, Vivian, et al. "Crystal Structures of Ferritin Grown by the Microbatch Method in the Presence of Agarose and Electric Field Shows Enhanced Metal Binding." bioRxiv, 2021, **@2021** **1.000**

106. Toshev Y, Mandova V., **Boshkov N.**, **Stoychev D.**, Petrov P. N.Tsvetkova, G.Raych, **Tsvetkova N.**, Raychevski G., Gabev A., Velev R., Kostadin K.. “Protective coatings of zinc and zinc alloys for industrial applications”. Book of Second Inernat.Conference on Multi-material Micromanifactures, pp.323-326, Minatec, European Centre for Micro and Nanotechnology, Grenoble, France, Eds. W.Menz, Elsevier Ltd.Publ. (2006), Minatec, European Centre for Micro and Nanotechnology, Grenoble, France., 2006, 323-326

Цитира се в:

251. Cheah, Zhen Ke, "Electrical Characteristics of Aluminum Air Battery Under Open-Circuit And Closed-Circuit Conditions", A project report submitted in partial fulfilment of the requirements for the award of Bachelorof Engineering (Honours) Mechanical Engineering, UTAR Lee Kong Chian Faculty of Engineering and Science Universiti Tunku Abdul Rahman Depositing User: Sg Long Library Date Deposited: 12 Jun 2021 01:56 Last Modified: 12 Jun 2021 01:56 URI: http://eprints.utar.edu.my/id/eprint/4105, **@2021** Линк **1.000**

252. Corona-Gomez J., Jack T.A., Feng R., Yang Q., "Wear and corrosion characteristics of nano-crystalline tantalum nitride coatings deposited on CoCrMo alloy for hip joint applications", Materials Characterization, 182, 2021, 111516, , **@2021** Линк **1.000**

253. De SOUZA LUCIO ROSSI "SYNTHESIS AND APPLICATION OF HIGH PERFORMANCE BENZOXAZINE-EPOXY COPOLYMERS" Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy Macromolecular Science and Engineering CASE WESTERN RESERVE UNIVERSITY May, 2021 Committee Chair - Gary Wnek Committee Members - Laura Bruckman, Rigoberto Advincula, João Maia Date of Defense March 29, 2021, **@2021** Линк **1.000**

254. Desai S., Desai S., Peter J., Kumar G.P., Amalraj L.D., Chapter 28 - Zinc-based nanomaterials: Biosafety, risk management, and regulatory aspects, Editor(s): Kamel A. Abd-Elsalam, In Nanobiotechnology for Plant Protection, Zinc-Based Nanostructures for Environmental and Agricultural Applications, Elsevier, 2021, 589-629, Leo Daniel Amalraj, **@2021** Линк **1.000**

255. Jyotheender, K.S., Srivastava, C. Correlating the Five-Parameter Grain Boundary Character Distribution and Corrosion Behavior of Zinc-Carbon Nanotube Composite Coatings. METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 52 (1) , pp.364-377 (2021). https://doi.org/10.1007/s11661-020-06070-y, **@2021** Линк **1.000**

256. Kobzar Y.L., Fatyeyeva K., "Ionic liquids as green and sustainable steel corrosion inhibitors: Recent developments Chemical Engineering Journal, 425, (3):131480 DOI: 10.1016/j.cej.2021.131480, **@2021** Линк **1.000**

257. Mopon, ML; Garcia, JS; (...); Narisma, CJC, Corrosion Behavior of AA 1100 Anodized in Gallic-Sulfuric Acid Solution, COATINGS 11 (4), 405 DOI: 10.3390/coatings11040405, **@2021** **1.000**

258. Sun Y., Lan A., Jin X., Yang H., Qiao J., “Comparison of electrochemical behaviour between La-free and La-containing CrMnFeNi HEA by Mott–Schottky analysis and EIS measurements”, Corrosion Engineering Science and Technology, 56:2, 171-178, **@2021** Линк **1.000**

259. UNIVERSIDAD NACIONAL DE SAN AGUSTÍN DE AREQUIPA FACULTAD DE INGENIERÍA DE PROCESOS Escuela Profesional de Ingeniería de Materiales EVALUACIÓN DE SISTEMAS DE PINTURAS APLICADOS EN ACERO A36 MEDIANTE RESISTENCIA A LA POLARIZACIÓN Y MICROSCOPÍA ELECTROQUÍMICA DE BARRIDO http://hdl.handle.net/20.500.12773/13281 Tesis presentada por la bachiller: Minga Adco, , **@2021** Линк **1.000**

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

Цитира се в:

260. Pancrecious, J.K., Vineetha, S.V., Bill, U.S., Gowd, E.B., Rajan, T.P.D., Ni-Al polyvanadate layered double hydroxide with nanoceria decoration for **1.000**

enhanced corrosion protection of aluminium alloy, Applied Clay Science 211, 106199 https://doi.org/10.1016/j.clay.2021.106199, **@2021**

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

Цитира се в:

261. Ech-chebab, A., Ejbouh, A., Galai, M, Hassi S., Berrami K., Touchami M.E., „Assessing the Fly Ash Effect on the Durability of Reinforced Concrete of Water Treatment Tanks Exposed to Coagulating Ferric Chloride by an Electrochemical Process“, Journal of Bio and Tribo Corrosion, 7, 75, (2021)., **@2021** Линк **1.000**

262. Huang, J.; Zhu, Y.; Ma, Y.;Hu, J.; Huang, H.; Wei, J.; Yu, Q., „pH-Triggered Release Performance of Microcapsule-Based Inhibitor and Its Inhibition Effect on the Reinforcement Embedded in Mortar“, Materials 2021, 14, 19, 5517, **@2021** Линк **1.000**

263. Kim J., McCarter W. J., Suryanto B., “Cover-zone protective qualities under corrosive environments, Journal of Building Engineering”, 2020, 33, 101618, **@2021** Линк **1.000**

264. Mostafa, S., El-Deeb, M., Farghali, A., Serag, A., “Evaluation of the nano silica and nano waste materials on the corrosion protection of high strength steel embedded in ultra-high performance concrete”, Scientific Reports, 11, (2021), 2617, **@2021** Линк **1.000**

265. Nguen T.H.Y., Hong V., Bui L., Tran V.M., Cao, T., Pansuk W., Jongvivasakul P., “Verifying the Reliability of Impressed Current Method to Simulate Natural Corrosion in Reinforced Concrete”, Engineering Journal, 25, 3, 105-116, (2021), , **@2021** Линк **1.000**

266. Shi J., Wu M., Ming J., “Long-term corrosion resistance of reinforcing steel in alkali-activated slag mortar after exposure to marine environments”, Corrosion Science, 179, 2021, 109175., **@2021** Линк **1.000**

109. Valdez, S.B., Zlatev, R.K., Schorr, W.M., Rosas, G.N., Dobrev, Ts., **Monev, M.**, **Krastev, I.**. Rapid method for corrosion protection determination of VCI films. Anti-Corrosion Methods and Materials, 53, 6, 2006, ISSN:35599, DOI:10.1108/00035590610711705, 362-366

Цитира се в:

267. Basitnezhad, F., Ebadi-Dehaghani, H., "Controlled Release of Novel Volatile Corrosion Inhibitor (VCI) Nanoparticles Incorporated in Low Density Polyethylene (LDPE) Films for Steel Coverings: Correlation of Experimental Results with Molecular Dynamics Simulation", Journal of Macromolecular Science, Part B: Physics, 60(6) 416–434, 2021, **@2021** Линк **1.000**

110. Krasowska M., Hristova E., **Khristov K.**, Malysa K., Exerowa D.. ., Isoelectric state and stability of foam films, bubbles and foams from PEO–PPO–PEO triblock copolymer (P85). Colloid Polym Sci, 284, 5, Springer, 2006, ISSN:ISSN: 0303-402X, DOI:DOI: 10.1007/BF01626229, 475-481. JCR-IF (Web of Science):1.967

Цитира се в:

268. Seyed-AhmadHoseinpour, Mehdi Madhi, HamidrezaNorouzi, Seyyed-Saeid Moezi, Bahram SoltaniSoulgani, Amir H.Mohammadi, Fluoro-chemical foam injection for wettability alteration of sandstone and carbonate reservoirs rocks towards gas-wet state, Journal of Natural Gas Science and Engineering, Vol 91, 103943, **@2021** Линк **1.000**

111. Avramova, I., **Stoychev, D.**, Marinova, Ts.. Characterization of a thin CeO2-ZrO2-Y2O3 films electrochemical deposited on stainless steel. Applied Surface Science, 253, 3, Elsevier, 2006, ISSN:1694332, DOI:10.1016/j.apsusc.2006.02.011, 1365-1370. ISI IF:2.711

Цитира се в:

269. Dalla Fontana, A., Cornaglia, L., Tarditi, A., PdAu and PdAuAg composite membranes with reduced film thickness using YSZ as a stainless-steel support modifier, Journal of Alloys and Compounds 877, 160184 DOI: 10.1016/j.jallcom.2021.160184, **@2021** **1.000**

270. Pérez, Argelia Fabiola Miranda, Innovative Coatings for Materials Subjected to Aggressive Environments, Surfaces 2021, 4(4), 255-256; https://doi.org/10.3390/surfaces4040020, **@2021** **1.000**

271. Wen, Y., Liu, Y., Processing and microstructure of a fluorite high-entropy oxide (Zr0.2Ce0.2Hf0.2Y0.2Al0.2)O2-δ, Ceramics International Available online 7 October 2021 In Press, Corrected Proof https://doi.org/10.1016/j.ceramint.2021.10.037, **@2021** **1.000**

112. Boiadjieva, T., Petrov, K., Raichevski, G., **Monev, M.**. Changes in composition and structure of electrodeposited Zn-Cr alloy coatings resulting in corrosion treatment. Transactions of the Institute of Metal Finishing, 84, 6, 2006, ISSN:202967, DOI:10.1179/174591906X149473, 313-319

Цитира се в:

272. Zhuang, R., Tan, Y., Liu, Y., ...Ouyang, Y., Du, Y., "Interdiffusion behaviors and mechanical properties of Zn–Cr system", Calphad, 74, 102308, 2021, **@2021** Линк **1.000**

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

Цитира се в:

273. Fritea, L., Banica, F., Costea, T.O., Moldovan, L., Dobjanschi, L., Muresan, M., Cavalu, S., "Metal Nanoparticles and Carbon-Based Nanomaterials for Improved Performances of Electrochemical (Bio)Sensors with Biomedical Applications", Materials 14(21), 6319, 2021, **@2021** Линк **1.000**

274. Muthukumar, T., Arumugam, E., Chandrasekaran, S., Karuppiah, C., Kodirajan, S., "Phytogenic synthesis of Co3O4 nanorods and its application in biomolecule sensing and antifungal activity", Inorganic Chemistry Communications, 123, 108305, 2021, **@2021** **1.000**

275. Reghunat, R., Devi, K., Singh, K., K., "Recent advances in graphene based electrochemical glucose sensors", Nano-structures and Nano-objects, 26, **1.000**

100750, 2021, **@2021**

276. Theerthagiri, Lee, S.J., Karuppasamy, K., Park, J., Yu, Y., Aruna Kumar, M.L., Chandrasekaran H.-S. Kim, Choi, M. Y., " Fabrication strategies and surface tuning of hierarchical gold nanostructures for electrochemical detection and removal of toxic pollutants", J. Hazardous Materials, 420, 126648, 2021, **@2021** Линк **1.000**

114. Dimitrov, D.I., **Milchev, A.**, Binder, K., Heermann, D.W.. Structure of polymer brushes in cylindrical tubes: A molecular dynamics simulation. Macromolecular Theory and Simulations, 15, 7, 2006, ISSN:10221344, DOI:10.1002/mats.200600029, 573-583

Цитира се в:

277. Dimitriyev, M.S., Grason, G.M. "End-exclusion zones in strongly stretched, molten polymer brushes of arbitrary shape". Journal of Chemical Physics, 155 (22), art. no. 224901, 2021, **@2021** Линк **1.000**

278. Pastorino, C., Müller, M. "Liquid and Droplet Transport in Brush-Coated Cylindrical Nanochannels: Brush-Assisted Droplet Formation". Journal of Physical Chemistry B, 125 (1), pp. 442-449, 2021, **@2021** Линк **1.000**

115. **Jordanov, N.**, Zellner, R.. 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. Physical Chemistry Chemical Physics, 8, 23, 2006, ISSN:14639076, DOI:10.1039/b604439e, 2759-2764

Цитира се в:

279. Cheng, H., Dong, X., Yang, Y., Feng, Y., Wang, T., Tahir, M.A., Zhang, L., Fu, H., Au nanoring arrays as surface enhanced Raman spectroscopy substrate for chemical component study of individual atmospheric aerosol particle, Journal of Environmental Sciences (China) 100 (2021) 11-17. ISSN: 1001-0742, **@2021** **1.000**

280. Tobon, Y.A., El Hajj, D., Seng, S., Bengrad, F., Moreau, M., Visez, N., Chiapello, I., Crumeyrolle, S., Choël, M., Impact of the particle mixing state on the hygroscopicity of internally mixed sodium chloride-ammonium sulfate single droplets: a theoretical and experimental study, Physical Chemistry Chemical Physics, 23, 26 (2021) 14391-14403. ISSN 1463-9084, **@2021** **1.000**

281. Wang, M., Zheng, N., Zhao, D., Shang, J., Zhu, T., Using Micro-Raman Spectroscopy to Investigate Chemical Composition, Mixing States, and Heterogeneous Reactions of Individual Atmospheric Particles, Environmental Science and Technology, 55, (15 (2021) 10243-10254. ISSN: 0013-936X, **@2021** **1.000**

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

Цитира се в:

282. Grandhi S., Raja V.S., Parida S., "Effect of manganese addition on the appearance, morphology, and corrosion resistance of hot-dip galvanized zinc coating", Surface and Coatings Technology, (2021), 421, 127377, **@2021** Линк **1.000**

283. Loukil, N., Feki, M., "Chronopotentiometric Study and Morphological-Structural Characterization of Environmentally Friendly Protective Zn-Mn Coatings, Journal of The Electrochemical Society, (2021), 168, 073501., **@2021** Линк **1.000**

117. Grbić, B., Radić, N., Marković, B., Stefanov, P., **Stoychev, D.**, Marinova, Ts.. Influence of manganese oxide on the activity of Pt/Al2O 3 catalyst for CO and n-hexane oxidation. Applied Catalysis B: Environmental, 64, 2-Jan, Elsevier, 2006, ISSN:9263373, DOI:10.1016/j.apcatb.2005.11.001, 51-56. ISI IF:7.435

Цитира се в:

284. Yan, H., Yao, S., Wang, J., (...), Chen, D., Yang, C., Engineering Pt-Mn2O3 interface to boost selective oxidation of ethylene glycol to glycolic acid, Applied Catalysis B: Environmental 284, 119803, 2021, **@2021** **1.000**

118. **Petrova, M.**, Dobreva, Ek., Noncheva, Z.. Activation of copper surfaces in chemical deposition of composite nickel coatings. Transactions of the Institute of Metal Finishing, 84, 2, 2006, ISSN:202967, DOI:10.1179/174591906X114462, 99-104

Цитира се в:

285. Kuo, T.-C., Kuo, C.R., Lee, W.-H., „A Novel Method to Fabricate a Thick-Film Cu Electrode Fired in Air through Printing Al Electrode and Reduction-Oxidation Substitution Reaction", IEEE Transactions on Components, Packaging and Manufacturing Technology 11(3), 9321716, (2021), pp. 485-492, **@2021** **1.000**

119. **Georgieva, J**, **Armyanov, S**, **Valova, E**, Poulios, I, Sotiropoulos, S. Preparation and photoelectrochemical characterisation of electrosynthesised titanium dioxide deposits on stainless steel substrates. Electrochimica Acta, 51, 10, 2006, ISSN:134686, DOI:10.1016/j.electacta.2005.07.017, 2076-2087. ISI IF:2.955

Цитира се в:

286. Lucatero S., Podlaha, E., "The galvanic protection of an electrochemically deposited photocatalytic Au/FeAu multilayered nanowire-TiO2 composite", J. Electrochem. Soc. 168, Art # 022501 (2021), **@2021** Линк **1.000**

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

Цитира се в:

287. Corti, H.R., Appignanesi, G.A., Barbosa, M.C., Bordin, J.R., Calero, C., Camisasca, G., Elola, M.D., Franzese, G., Gallo, P., Hassanali, A., Huang, K., Laria, D., Menéndez, C.A., de Oca, J.M.M., Longinotti, M.P., Rodriguez, J., Rovere, M., Scherlis, D., Szleifer, I. "Structure and dynamics of nanoconfined **1.000**

water and aqueous solutions". European Physical Journal E, 44 (11), art. no. 136, 2021, **@2021** Линк

288. Fragasso, A., de Vries, H.W., Andersson, J., van der Sluis, E.O., van der Giessen, E., Dahlin, A., Onck, P.R., Dekker, C. "A designer FG-Nup that reconstitutes the selective transport barrier of the nuclear pore complex". Nature Communications, 12 (1), art. no. 2010, 2021, **@2021** Линк **1.000**

289. Li, S.-J., Shi, X."Tailoring Antifouling Properties of Nanocarriers via Entropic Collision of Polymer Grafting". ACS Nano, 15 (3), pp. 5725-5734, 2021, **@2021** Линк **1.000**

290. Liu, Z., Gao, J., Xiao, C. "Preparation and vacuum membrane distillation performance of a superhydrophobic polypropylene hollow fiber membrane modified via ATRP". Desalination, 512, art. no. 115130, 2021, **@2021** Линк **1.000**

2007

121. Koleva, D.A., Van Breugel, K., De Wit, J.H.W., **Boshkov N.**, Fraaij, A.L.A.. Composition and morphology of product layers in the steel/cement paste interface in conditions of corrosion and cathodic protection in reinforced concrete. ECS Transactions, 2, 9, 2007, ISSN:19385862, DOI:10.1149/1.2408934, 127-139

Цитира се в:

291. Ku J., Zhang L., Fu W., Wang S., , Yin W., Chen H., "Mechanistic study on calcium ion diffusion into fayalite: A step toward sustainable management of copper slag", Journal of Hazardous Materials, 410, 124630, **@2021** Линк **1.000**

122. **Popova, H.**, **Milchev, A.**. "Structure, dynamics, and phase transitions of tethered membranes: A Monte Carlo simulation study". Journal of Chemical Physics, 127, 19, American Institute of Physics Publising, 2007, ISSN:00219606, DOI:10.1063/1.2805088, 194903. SJR:1.214, ISI IF:2.952

Цитира се в:

292. Polson, James M. , Garcia, Edgar J. and Klotz, Alexander R. "Flatness and intrinsic curvature of linked-ring membranes". Soft Matter 17, 10505-10515, 2021, **@2021** Линк **1.000**

123. Dimitrov, D.I., **Milchev, A.**, Binder, K.. Polymer brushes in solvents of variable quality: Molecular dynamics simulations using explicit solvent. Journal of Chemical Physics, 127, 8, 2007, ISSN:219606, DOI:10.1063/1.2768525

Цитира се в:

293. Biagi, S., Rovigatti, L., Abbasi, M., Bureau, L., Sciortino, F., Misbah, C. "Hydrodynamic instability and flow reduction in polymer brush coated channels" Soft Matter, 17 (40), 9235-9245, 2021., **@2021** Линк **1.000**

294. Chang, Y.-Y., Yu, H.-Y. "Structural and Dynamical Coupling in Solvent-Free Polymer Brushes Elucidated by Molecular Dynamics Simulations. Langmuir, 37 (11), 3331-3345, 2021., **@2021** Линк **1.000**

295. Egorov, S.A. "Interactions between sterically stabilized nanoparticles: The effects of brush bidispersity and chain stiffness". Polymers, 13 (14), art. no. 2296, 2021, **@2021** Линк **1.000**

296. Egorov, S.A. "Linear and Ring Polymer Brushes: A Density Functional Theory Study", Macromolecular Theory and Simulations, 2021., **@2021** Линк **1.000**

297. Glova, A.D., Melnikova, S.D., Mercurieva, A.A., Lyulin, S.V., Branched versus Linear Lactide Chains for Cellulose Nanoparticle Modification: An Atomistic Molecular Dynamics Study, Physical Chemistry Chemical Physics 23, 457-469, 2021 , DOI: 10.1039/D0CP04556J, **@2021** **1.000**

298. Huang, Y., Cheng, S. "Chain conformations and phase separation in polymer solutions with varying solvent quality". Journal of Polymer Science, 59 (22), 2819-2831, 2021., **@2021** Линк **1.000**

299. Leong, F.Y., Le, D.-V. "Dynamics of a droplet on a polymer brush in channel flow". Physics of Fluids, 33 (4), art. no. 043303, 2021., **@2021** Линк **1.000**

300. Li, S.-J., Shi, X. "Tailoring Antifouling Properties of Nanocarriers via Entropic Collision of Polymer Grafting". ACS Nano, 15 (3), pp. 5725-5734, 2021, **@2021** Линк **1.000**

301. Liu, S., De Beer, S., Batenburg, K.M., Gojzewski, H., Duvigneau, J., Vancso, G.J. "Designer Core-Shell Nanoparticles as Polymer Foam Cell Nucleating Agents: The Impact of Molecularly Engineered Interfaces" ACS Applied Materials and Interfaces, 13 (14), pp. 17034-17045, 2021., **@2021** Линк **1.000**

302. Mora-Sierra, Z., Gopan, G., Chang, R., Leckband, D.E., Gruebele, M. "Stabilization and Kinetics of an Adsorbed Protein Depends on the Poly(N-isopropylacrylamide) Grafting Density" Biomacromolecules, 22 (11), 4470-4478, 2021., **@2021** Линк **1.000**

303. Polanowski P., Sikorski A. "The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study" Soft Matter, 17(46), 10516-10526, 2021., **@2021** **1.000**

304. Smook, L.A., Ritsema Van Eck, G.C., De Beer, S. "Concentrating Vapor Traces with Binary Brushes of Immiscible Polymers" ACS Applied Polymer Materials, 3 (5), pp. 2336-2340, 2021., **@2021** Линк **1.000**

305. Xiao, J., He, Q., Yang, M., Li, H., Qiu, X., Wang, B., Zhang, B., Bu, W. "Hierarchical self-assembly of miktoarm star copolymers with pathway complexity" Polymer Chemistry, 12 (10), pp. 1476-1486, 2021., **@2021** Линк **1.000**

124. Ergul, S., Akyildiz, M., **Karamanov, A.**. Ceramic material from basaltic tuffs. Industrial Ceramics, 27, 2, 2007, ISSN:11217588, 89-94

Цитира се в:

306. Ahmed, A.N., Sultana, M.S., Zaman, M.N., Rahman, M.A. Influence of hard rock dust on the physical and microstructural properties of red ceramic materials (2021) Journal of the Korean Ceramic Society, 58 (1), pp. 69-76., **@2021** **1.000**

125. Dimitrov, D., **Milchev, A.**, Binder, K.. Polymer brushes on flat and curved substrates: Scaling concepts and computer simulations. Macromolecular Symposia, 252, 2007, ISSN:10221360, DOI:10.1002/masy.200750605, 47-57

Цитира се в:

307. Alexandra S., U., Alexei A. L., Vasilevskaya, V.V., "Flowerlike Multipetal Structures of Nanoparticles Decorated by Amphiphilic Homopolymers", Macromolecules, 54, 13, 6285–6295, DOI: 10.1021/acs.macromol.1c00467, **@2021** **1.000**

308. Arraez, F.J., Van Steenberge, P.H.M., Sobieski, J. D'hooge, D.R. "Conformational Variations for Surface-Initiated Reversible Deactivation Radical Polymerization: From Flat to Curved Nanoparticle Surfaces" Macromolecules, DOI: 10.1021/acs.macromol.1c00855, 2021, **@2021** **1.000**

309. Canchaya S.J.G., Clavier G., Garruchet S., Latour, B., Martzel, N., Devémy, J., Goujon, F., Dequidt, A., Blaak, R., Munch E., Malfreyt P., " Rheological properties of polymer chains at a copper oxide surface: Impact of the chain length, surface coverage, and grafted polymer shape", Physical Review E, 104(2), art. no. 024501, 2021, **@2021** **1.000**

310. Francisco J. A., Van Steenberge, P.H.M., Sobieski, J., D'hooge, D.R., "Conformational Variations for Surface-Initiated Reversible Deactivation Radical Polymerization: From Flat to Curved Nanoparticle Surfaces", Macromolecules, 2021, DOI: 10.1021/acs.macromol.1c00855, **@2021** **1.000**

311. Glova, A.D., Melnikova, S.D., Mercurieva, A.A., Lyulin, S.V., "Branched versus Linear Lactide Chains for Cellulose Nanoparticle Modification: An Atomistic Molecular Dynamics Study", Physical Chemistry Chemical Physics, DOI: 10.1039/D0CP04556J, 2021, **@2021** **1.000**

312. Hałagan, K., Banaszak, M., Jung, J., Sikorski, A., "Polymerization and Structure of Opposing Polymer Brushes Studied by Computer Simulations", Polymers 13(24):4294, 2021, DOI: 10.3390/polym13244294, **@2021** **1.000**

313. Klement, M., "Computational Studies of Anisotropic Particles", Thesis for: Doctoral Advisor: Michael Schmiedeberg, 2021, **@2021** **1.000**

314. Liu, Y., Aizenberg, J., Balazs , A.C., "Using Dissipative Particle Dynamics to Model Effects of Chemical Reactions Occurring within Hydrogels", Nanomaterials 11(10):2764, 2021, DOI: 10.3390/nano11102764, **@2021** **1.000**

315. Mora-Sierra, Z., Gopan, G., Chang, R., Gruebele, M., "Stabilization and Kinetics of an Adsorbed Protein Depends on the Poly(N -isopropylacrylamide) Grafting Density", Biomacromolecules DOI: 10.1021/acs.biomac.1c00417, 2021, **@2021** **1.000**

316. Pastorino, C., Müller, M. "Liquid and Droplet Transport in Brush-Coated Cylindrical Nanochannels: Brush-Assisted Droplet Formation". Journal of Physical Chemistry B, 125 (1), pp. 442-449, 2021, **@2021** Линк **1.000**

317. Polanowski P., Sikorski A., "The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study", Soft Matter, 17(46), 10516-10526, 2021, **@2021** **1.000**

318. Polanowski, P., Sikorski, A. "The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study". Soft Matter, 17 (46), pp. 10516-10526, 2021, **@2021** Линк **1.000**

319. Sindram, J., Karg, M. "Polymer ligand binding to surface-immobilized gold nanoparticles: A fluorescence-based study on the adsorption kinetics". Soft Matter, 17 (32), pp. 7487-7497, 2021, **@2021** Линк **1.000**

320. Solano Canchaya J.G., Clavier G., Garruchet S., Garruchet, S., Latour, B., Martzel, N., Devémy, J., Goujon, F., Dequidt, A., Blaak, R., Munch, E., Malfreyt, P., "Rheological properties of polymer chains at a copper oxide surface: Impact of the chain length, surface coverage, and grafted polymer shape" , Physical Review E, 104(2), art. no. 024501, 2021., **@2021** **1.000**

321. Solano Canchaya, J., Clavier, G., Garruchet, S., Latour, B., Martzel, N., Devémy, J., Goujon, F., Dequidt, A., Blaak, R., Munch, E. Malfreyt, P., "Rheological properties of polymer chains at a copper oxide surface: Impact of the chain length, surface coverage, and grafted polymer shape", Physical Review E, 104(2), art. no. 024501, 2021., **@2021** **1.000**

322. Wojcik A.J., Wolski K., Zapotoczny S. "Double-stranded surface-grafted polymer brushes with ladder-like architecture", European Polymer Journal, 155, art. no. 110577, 2021, **@2021** **1.000**

323. Wojcik A.J., Wolski K., Zapotoczny S. , "Double-stranded surface-grafted polymer brushes with ladder-like architecture", European Polymer Journal, 155, art. no. 110577, 2021, **@2021** **1.000**

324. Yang Y., Lu Q., Huang C.-M., Qian, H., Zhang, Y., Deshpande, S., Arya, G., Ke, Y., Zauscher, S., Journal Angewandte Chemie International Edition " Programmable Site-Specific Functionalization of DNA Origami with Polynucleotide Brushes" 60, 23241 - 23247 , 2021, **@2021** **1.000**

325. Yang Y., Lu Q., Huang C.-M., Qian, H., Zhang, Y., Deshpande, S., Gaurav Arya, G., Ke, Y., Zauscher, S., "Programmable Site-Specific Functionalization of DNA Origami with Polynucleotide Brushes", Angewandte Chemie - International Edition, 2021., **@2021** **1.000**

326. Yang, Z., "Molecular Dynamics Simulations of Polymer Brushes" DOI: 10.1109/ISCIPT53667.2021.00140 Conference: 2021 6th International Symposium on Computer and Information Processing Technology (ISCIPT), 2021, **@2021** **1.000**

126. **Ranguelov, B.**, Stoyanov, S.. Evaporation and growth of crystals: Propagation of step-density compression waves at vicinal surfaces. Physical Review B - Condensed Matter and Materials Physics, 76, 3, 2007, ISSN:10980121, DOI:10.1103/PhysRevB.76.035443

Цитира се в:

327. Guin, L., Jabbour, M.E., Shaabani-Ardali, L., Triantafyllidis, N. "Revisiting step instabilities on crystal surfaces. Part II: General theory". Journal of the Mechanics and Physics of Solids 156, 104582, 2021, **@2021** Линк **1.000**

127. **Ranguelov, B.**, Altman, M.S., **Markov, I.**. Critical terrace width for step flow growth: Effect of attachment- detachment asymmetry and step permeability. Physical Review B - Condensed Matter and Materials Physics, 75, 24, 2007, ISSN:10980121, DOI:10.1103/PhysRevB.75.245419

Цитира се в:

328. Ju, G., Xu, D., Thompson, C., Highland, M.J., Eastman, J.A., Walkosz, W., Zapol, P., Stephenson, G.B. "In situ microbeam surface X-ray scattering **1.000**

reveals alternating step kinetics during crystal growth". Nature Communications, 12 (1), art. no. 1721, 2021, **@2021** Линк

128. Dimitrov, D., **Milchev, A.**, Binder, K. Capillary rise in Nanopores: Molecular dynamics evidence for the Lucas-Washburn equation. Physical Review Letters, 99, 5, 2007, DOI:10.1103/PhysRevLett.99.054501, SJR (Scopus):3.69, JCR-IF (Web of Science):9.16

Цитира се в:

329. Bao, B., Zhao, S. "A review of experimental nanofluidic studies on shale fluid phase and transport behaviors". Journal of Natural Gas Science and Engineering, 86, art. no. 103745, 2021, **@2021** Линк **1.000**

330. Cai, J., Jin, T., Kou, J., Zou, S., Xiao, J., Meng, Q. "Lucas-Washburn Equation-Based Modeling of Capillary-Driven Flow in Porous Systems". Langmuir, 37 (5), pp. 1623-1636, 2021., **@2021** Линк **1.000**

331. Choi, K.H., Hwang, D.Y., Park, J.E., Suh, D.H. "Meta-Separation: Complete Separation of Organic–Water Mixtures by Structural Property of Metamaterial". Advanced Materials Interfaces, 8 (11), art. no. 2100184, 2021., **@2021** Линк **1.000**

332. Colijn, I., Karin Schroën, K., "Thermoplastic bio-nanocomposites: From measurement of fundamental properties to practical application", Advances in Colloid and Interface Science 292:102419, 2021, DOI: 10.1016/j.cis.2021.102419, **@2021** **1.000**

333. Ding, Y., Yu, X., Liu, X., Liang, L., Xiong, J. "Novel Analytical Model of Shale Spontaneous Imbibition Considering the Hydration Effect". Energy and Fuels, 35 (22), 18518-18532, 2021 ., **@2021** Линк **1.000**

334. Fang, R., Li, Z., Zhang, X., Zhu, X., Zhang, H., Li, J., Pan, Z., Huang, Z., Yang, C., Zheng, J., Yan, W., Huang, Y., Maisotsenko, V.S., Vorobyev, A.Y. "Spreading and drying dynamics of water drop on hot surface of superwicking Ti-6Al-4V alloy material fabricated by femtosecond laser". Nanomaterials, 11 (4), art. no. 899, 2021, **@2021** Линк **1.000**

335. Farrokhrouz, M., Taheri, A., Iglauer, S., Keshavarz, A. "Analytical Exact Solution for Co-Current Spontaneous Imbibition in Porous Media Considering EarlyAnd Late-Time Effects". Energy and Fuels, 35 (21), pp. 17499-17511, 2021 ., **@2021** Линк **1.000**

336. Faucher, S., Kuehne, M., Koman, V.B., Northrup, N., Kozawa, D., Yuan, Z., Li, S.X., Zeng, Y., Ichihara, T., Misra, R.P., Aluru, N., Blankschtein, D., Strano, M.S. "Diameter Dependence of Water Filling in Lithographically Segmented Isolated Carbon Nanotubes". ACS Nano, 15 (2), pp. 2778-2790, 2021, **@2021** Линк **1.000**

337. He, G.-Y., Tsao, H.-K., Sheng, Y.-J. "Imbibition dynamics in an open-channel capillary with holes". Journal of Molecular Liquids, art. no. 118117, 2021, **@2021** Линк **1.000**

338. Hussain, Z., "Investigation of the Contact Angle of Fluid with Paper", 2021 DOI: 10.13140/RG.2.2.16166.75842, **@2021** **1.000**

339. Hwan Choi, K., So Jeong Kim, M.E., Hack Suh, D. "Meta-separation: Improvement of Properties by Molecular Design of Metamaterials for Organophosphorous Flame Retardants". ChemistrySelect, 6 (31), pp. 8011-8015, 2021., **@2021** Линк **1.000**

340. Ito, H., Matsumoto, S., Suzuki, T., Sugii, T., Terasaki, T., Moriya, H. "Coarse-grained molecular dynamics simulation of wettability and bleed out of capillary underfill". AIP Advances, 11 (4), art. no. 045112, 2021, **@2021** Линк **1.000**

341. Li, W., Yang, G., Terzis, A., Mukherjee, S., He, C., An, X., Wu, J., Weigand, B., Fischer, R.A. "In Situ Tracking of Wetting-Front Transient Heat Release on a Surface-Mounted Metal–Organic Framework". Advanced Materials, 33 (14), art. no. 2006980, 2021, **@2021** Линк **1.000**

342. Liu, Z., Zhao, D., Yang, H., Li, G., Wang, W. "Experimental study on the spontaneous imbibition characteristics of accumulated coal grains". Fuel, 288, art. no. 119634, 2021, **@2021** Линк **1.000**

343. Lu, Y., Wang, Y., Chen, J. "Adjustable capillary imbibition enhancement in double-walled nanotubes with concentric tube length difference". Journal of Statistical Mechanics: Theory and Experiment, 2021 (5), art. no. 053204, 2021, **@2021** Линк **1.000**

344. Modulating Interactions between Molten Polystyrene and Porous Solids Using Atomic Layer Deposition, Ren, T., Huang R., Raymond J. G., Lee, D., Langmuir , 2021, 37, 49, 14520–14526, DOI: 10.1021/acs.langmuir.1c02604, **@2021** **1.000**

345. Setter, R., Riedel, F., Peukert, W., Schmidt, J., Wudy, K. "Infiltration behavior of liquid thermosets in thermoplastic powders for additive manufacturing of polymer composite parts in a combined powder bed fusion process". Polymer Composites, 42 (10), 5265-5279, 2021., **@2021** Линк **1.000**

346. Sun, C., Zhou, R., Zhao, Z., Bai, B. "Extending the Classical Continuum Theory to Describe Water Flow through Two-Dimensional Nanopores". Langmuir, 37 (20), pp. 6158-6167, 2021, **@2021** Линк **1.000**

347. Tian, W., Wu, K., Chen, Z., Lai, L., Gao, Y., Li, J. "Effect of dynamic contact angle on spontaneous capillary-liquid-liquid imbibition by molecular kinetic theory". SPE Journal, 26 (4), pp. 2324-2339, 2021., **@2021** Линк **1.000**

348. Venkatesh, R.B., Manohar, N., Qiang, Y., Wang, H., Tran, H.H., Kim, B.Q., Neuman, A., Ren, T., Fakhraai, Z., Riggleman, R.A., Stebe, K.J., Turner, K., Lee, D. "Polymer-Infiltrated Nanoparticle Films Using Capillarity-Based Techniques: Toward Multifunctional Coatings and Membranes". Annual Review of Chemical and Biomolecular Engineering, 12, pp. 411-437, 2021., **@2021** Линк **1.000**

349. Wang F., Zhao J., "Mathematical modeling of gravity and buoyancy effect on low interfacial tension spontaneous imbibition in tight oil reservoirs", AIChE Journal, 2021., **@2021** **1.000**

350. Wang K., Jiang B., Ye K., Li H., Tan Y., "Spontaneous imbibition model for micro–nano–scale pores in shale gas reservoirs considering gas–water interaction", Journal of Petroleum Science and Engineering, art. no. 109893, 2021., **@2021** **1.000**

351. Wang, F., Zhao, J. "Mathematical modeling of gravity and buoyancy effect on low interfacial tension spontaneous imbibition in tight oil reservoirs". AIChE Journal, 67 (9), art. no. e17332, 2021., **@2021** Линк **1.000**

352. Wang, K., Jiang, B., Ye, K., Li, H., Tan, Y. "Spontaneous imbibition model for micro–nano–scale pores in shale gas reservoirs considering gas–water interaction". Journal of Petroleum Science and Engineering, art. no. 109893, 2021, **@2021** Линк **1.000**

353. Wang, M., Qi, B., Liu, Y., Al-Tabbaa, A., Wang, W. "Simulating the molecular density distribution during multi-phase fluid intrusion in heterogeneous media". Chemical Engineering Science, 240, art. no. 116693, 2021 ., **@2021** Линк **1.000**

354. Zhu Y., Li Z., Ni J., Lai F., Wu D. , "Modeling the spontaneous imbibition of non-Newtonian fluids into the fractal porous media of tight reservoirs", Journal of Petroleum Science and Engineering, art. no. 109892, 2021., **@2021** **1.000**

355. Zhu, Y., Li, Z., Ni, J., Lai, F., Wu, D. "Modeling the spontaneous imbibition of non-Newtonian fluids into the fractal porous media of tight reservoirs". Journal of Petroleum Science and Engineering, art. no. 109892, 2021, **@2021** Линк **1.000**

129. **Gotchev, G.**, Kolarov, T., Levecke, B., Tadros, Th., **Khristov, Khr.**, **Exerowa, D.**. Interaction forces in thin liquid films stabilized by hydrophobically modified inulin polymeric surfactant. 3. Influence of electrolyte type on emulsion films. Langmuir, 23, 11, 2007, ISSN:7437463, DOI:10.1021/la7002673, 6091-6094. JCR-IF (Web of Science):7.435

Цитира се в:

356. Muhammad Usman, Chengnan Zhang, Prasanna Jagannath Patil, Arshad Mehmood, Xiuting Li, Muhammad Bilal, Junaid Haider, Shabbir Ahmad. (2021). Potential applications of hydrophobically modified inulin as an active ingredient in functional foods and drugs - A review. Carbohydrate Polymers, 252 doi:10.1016/j.carbpol.2020.117176, **@2021** Линк **1.000**

130. Mitov, M., **Rashkov, R.**, Atanassov, N., Zielonka, A.. Effects of nickel foam dimensions on catalytic activity of supported Co-Mn-B nanocomposites for hydrogen generation from stabilized borohydride solutions. Journal of Materials Science, 42, 10, 2007, ISSN:222461, DOI:10.1007/s10853-006-0786-0, 3367-3372

Цитира се в:

357. Balbay A., Selvïtepe N., Saka C."Fe doped-CoB catalysts with phosphoric acid-activated montmorillonite as support for efficient hydrogen production via NaBH4 hydrolysis".International Journal of Hydrogen EnergyVolume 46, Issue 1, Pages 425 - 4381 January 2021, **@2021** Линк **1.000**

358. Şahin Ö., İzgi M.S., Tayboğa S., Kazıcı H.Ç."Effect of plasma pretreatment of Co–Cu–B catalyst on hydrogen generation from sodium borohydride methanolysis".Reaction Kinetics, Mechanisms and CatalysisVolume 133, Issue 2, Pages 851 - 861August 2021, **@2021** Линк **1.000**

359. Singh P.K., Das T."Hydrogen generation through sodium borohydride hydrolysis over supported cobalt catalysts and the effect of total dissolved solids in water".Reaction Kinetics, Mechanisms and CatalysisVolume 134, Issue 2, Pages 677 - 696December 2021, **@2021** Линк **1.000**

360. Sudan A., Kaur A., Gangacharyulu D., Gupta R.K."Experimental and modelling studies of hydrogen generation from NaBH4/Al2O3 nanoparticles/H2O system with CoCl2 as a catalyst".Bulgarian Chemical CommunicationsVolume 53, Issue 2, Pages 188 - 1952021, **@2021** Линк **1.000**

131. Uzunova, M., Kostadinov, M., **Georgieva, J.**, Dushkin, C., Todorovsky, D., Philippidis, N., Poulios, I., Sotiropoulos, S.. Photoelectrochemical characterisation and photocatalytic activity of composite La2O3-TiO2 coatings on stainless steel. Applied Catalysis B: Environmental, 73, 2-Jan, 2007, ISSN:9263373, DOI:10.1016/j.apcatb.2006.12.004, 23-33

Цитира се в:

361. Abraham, T., Priyanka, R.N., Joseph, S., Chacko, A.R., Mathew, B. "Fabrication of La2O3/Bi2O3/silver orthophosphate Heterojunction Catalyst for the Visible Light Mediated Remediation of Refractory Pollutants". Materials Research Bulletin, 140, 111299, 2021, **@2021** Линк **1.000**

362. Bilel, C., Jbeli, R., Ben Jemaa, I., Dabaki, Y., Alzaid, M., Saadallah, F., Bouaicha, M., Amlouk, M. "Synthesis and physical characterization of Ni-doped La2O3 for photocatytic application under sunlight". Journal of Materials Science: Materials in Electronics, 32(5), 5415-5426, 2021, **@2021** Линк **1.000**

363. El Mouchtari, E.M., Bahsis, L., El Mersly, L., Anane, H., Lebarillier, S., Piram, A., Briche, S., Wong-Wah-Chung, P., Rafqah, S. "Insights in the Aqueous and Adsorbed Photocatalytic Degradation of Carbamazepine by a Biosourced Composite: Kinetics, Mechanisms and DFT Calculations". International Journal of Environmental Research, 15(1), 135-147, 2021, **@2021** Линк **1.000**

132. **Georgieva, J**, **Armyanov, S**, **Valova, E**, Poulios, I, Sotiropoulos, S. Enhanced photocatalytic activity of electrosynthesised tungsten trioxide-titanium dioxide bi-layer coatings under ultraviolet and visible light illumination. Electrochemistry Communications, 9, 3, 2007, ISSN:13882481, DOI:10.1016/j.elecom.2006.09.028, 365-370. ISI IF:4.186

Цитира се в:

364. Aliabadi H. M., Zargoosh K., Afshari M., Dinari M., Maleki M. H., “Synthesis of luminescent g-C3N4-WO3-Bi2WO6/ SrAl2O4: Eu2+, Dy3+ nanocomposite as a double z-scheme sunlight activable photocatalyst”, New J. Chem., 45, 4843-4853 (2021), **@2021** Линк **1.000**

365. Udayabhanu, Patil S. B., Nagaraju G., Ch.18 “Recent Advances in Nanostructured Materials for Detoxification of Cr(VI) to Cr(III) for Environmental Remediation”, pp. 455-484 in “Nanostructured Materials for Environmental Applications”, Editors Balakumar S., Keller V., Shankar M.V., Springer, 2021., **@2021** **1.000**

133. Milev, D.R., Atanasov, P.A., Dikovska, A.Og., Dimitrov, I.G., Petrov, K.P., **Avdeev, G.V.**. Structural and optical properties of YVO 4 thin films. Applied Surface Science, 253, 19, 2007, DOI:10.1016/j.apsusc.2007.02.110, 8250-8253. SJR (Scopus):1.3 **(x)**

Цитира се в:

366. Wang, S., Wang, P., Ruan, Y., Wang, Y., Zhang, S., Photoluminescence characteristics and energy transfer phenomena in Ce3+-doped YVO4single crystal, (2021) Science and Engineering of Composite Materials, 28 (1), pp. 205-214., **@2021** Линк **1.000**

134. Exerowa, D., **Gotchev, G.**, Kolarov, T., Khristov, Khr., Levecke, B., Tadros, Th.. Interaction forces in thin liquid films stabilized by hydrophobically modified inulin polymeric surfactant. 2. Emulsion films. Langmuir, 23, 4, 2007, ISSN:7437463, DOI:10.1021/la062820g, 1711-1715. JCR-IF (Web of Science):3.833

Цитира се в:

367. Muhammad Usman, Chengnan Zhang, Prasanna Jagannath Patil, Arshad Mehmood, Xiuting Li, Muhammad Bilal, Junaid Haider, Shabbir Ahmad (2021). Potential applications of hydrophobically modified inulin as an active ingredient in functional foods and drugs - A review. Carbohydrate Polymers, **1.000**

252 doi:10.1016/j.carbpol.2020.117176, **@2021** Линк

135. **Karamanov, A.**, Aloisi, M., Pelino, M.. Vitrification of copper flotation waste. Journal of Hazardous Materials, 140, 2-Jan, 2007, ISSN:3043894, DOI:10.1016/j.jhazmat.2006.09.040, 333-339. SJR (Scopus):1.7, JCR-IF (Web of Science):6

Цитира се в:

368. Ma, B., Yan, X., Zhao, Z., Hu, J., Zhang, H., Jiao, S. Performance and Hazardous Characteristics of Vitrification Product of Chromium Dust from Stainless Steel [Article@不锈钢含铬除尘灰制备玻璃化产物的危险特性与性能] (2021) Research of Environmental Sciences, 34 (4), pp. 1006-1014., **@2021** **1.000**

369. Mikula, K., Izydorczyk, G., Skrzypczak, D., Moustakas, K., Witek-Krowiak, A., Chojnacka, K. Value-added strategies for the sustainable handling, disposal, or value-added use of copper smelter and refinery wastes (2021) Journal of Hazardous Materials, 403, art. no. 123602, ., **@2021** **1.000**

370. Rosado, S., Gullón, L., Martínez, L. F. M., & Llamas Borrajo, J. F. (2021). Potential Uses of Copper Wastes in the Building Sector: Inertization and Added Value Solutions. Materials Proceedings, 5(1), 25., **@2021** **1.000**

371. Shang, W., Peng, Z., Huang, Y., Gu, F., Zhang, J., Tang, H., Yang, L., Tian, W., Rao, M., Li, G., Jiang, T. Production of glass-ceramics from metallurgical slags (2021) Journal of Cleaner Production, 317, art. no. 128220, ., **@2021** **1.000**

372. Trifunović, V. Vitrification as a method of soil remediation [Article@Vitrifikacija kao metoda remedijacije zemljišta] (2021) Materials Protection, 62 (3), pp. 166-179., **@2021** **1.000**

136. **A. Milchev**, Dubbeldam J., A. Rostiashvili, Vilgis T.A.. Polymer translocation through a nanopore: A showcase of anomalous diffusion.. 2007

Цитира се в:

373. Bhattacharya, A., "Some aspects of a two-pore translocation problem", Journal of Physics Conference Series 2122(1):012003, 2021, DOI: 10.1088/1742-6596/2122/1/012003, **@2021** **1.000**

374. Hung, N.N., Binh, H.D., Luc, N.H., An, N.T.K., Long, L.D. "Stochastic sub-diffusion equation with conformable derivative driven by standard brownian motion". Advances in the Theory of Nonlinear Analysis and its Applications 5(3), pp. 287-299, 2021, **@2021** Линк **1.000**

375. Lu Y., Wang Z., An L., Shi A.-C. , "Polymer Translocation Time", Journal of Physical Chemistry Letters, 11534-11542, 2021., **@2021** **1.000**

2008

137. V. Nikolova, P. Iliev, K. Petrov, T. Vitanov, E. Zhecheva, R. Stoyanova, I. Valov, **D. Stoychev**. Electrocatalysts for bifunctional oxygen/air electrodes. Journal of Power Sources, 185, 2, Elsevier, 2008, ISSN:3787753, DOI:10.1016/j.jpowsour.2008.08.031, 727-733. SJR:1.819, ISI IF:6.217

Цитира се в:

376. Abrashev, B., Slavova, M., Mladenova, E., (...), Raikova, G., Petrov, K. ELECTROCHEMICAL PROPERTIES OF AN OPTIMIZED GAS-DIFFUSION ELECTRODE (GDE) FOR RECHARGEABLE Zn-AIR BATTERIES, Journal of Chemical Technology and Metallurgy 56(6), pp. 1261-1266., **@2021** **1.000**

377. Kannan, S., Balasubramanian, V., Mohanraj, K., Sivakumar, G., Preparation of h-WO3/CuWO4 microsphere and single crystalline CuWO4 nanoparticles and their electrocatalytic activity, Vacuum 191, 110381, DOI: 10.1016/j.vacuum.2021.110381, **@2021** **1.000**

378. Zhang, T., Wu, N., Zhao, Y., (...), Huo, F., Huang, W., Frontiers and Structural Engineering for Building Flexible Zinc–Air Batteries, December 2021 Advanced Science DOI: 10.1002/advs.202103954, **@2021** **1.000**

379. Zhuang, S., Wang, Z., He, J., (...), Lu, M., Tu, F., Perovskite La0.5Ca0.5CoO3-δ nanocrystals on graphene as a synergistic catalyst for rechargeable zinc-air batteries, Sustainable Materials and Technologies 29, e00282, DOI: 10.1016/j.susmat.2021.e00282, **@2021** **1.000**

138. **Tsakova, V.**. How to affect number, size, and location of metal particles deposited in conducting polymer layers?. Journal of Solid State Electrochemistry, 12, 11, 2008, ISSN:14328488, DOI:10.1007/s10008-007-0494-y, 1421-1434. ISI IF:4.504

Цитира се в:

380. Patil, A., Patil, N., "Fabrication of zirconyl chloride doped polyvinyl alcohol / polythiophene (PVA-Zr-PTh) nanocomposite thin films by chemical polymerization method", Int. J. Appl. Chem. 17, 55-67, 2021, **@2021** Линк **1.000**

139. Rafailov, P.M., Thomsen, C., **Monev, M.**, Dettlaff-Weglikowska, U., Roth, S.. 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, ISSN:3701972, DOI:10.1002/pssb.200879569, 1967-1970

Цитира се в:

381. Liang, X., Li, N., Zhang, R. et al., "Carbon-based SERS biosensor: from substrate design to sensing and bioapplication", NPG Asia Mater 13, 8, 2021, **@2021** Линк **1.000**

140. Boiadjieva, T., Kovacheva, D., Lyutov, L., **Monev, M.**. Deposition of Zn-Cr alloy coatings from sulfate electrolyte: Effect of polypropylene glycol 620 and glycine and combinations thereof. Journal of Applied Electrochemistry, 38, 10, 2008, ISSN:0021891X, DOI:10.1007/s10800-008-9586-3, 1435-1443

Цитира се в:

382. Al Radadi, R.M. Al et al., "Nickel-cobalt alloy coatings prepared by electrodeposition Part II: Morphology, structure, microhardness, and electrochemical studies", Korean J. Chem. Eng. 38, 152–162, 2021, **@2021** Линк **1.000**

383. Osuchowska, E., Buczko, Z., Olkowicz, K., "Zn-Cr Alloy Coatings: Electrodeposition and Properties", Journal of KONBiN, Warsaw, 51(1), 29-42, 2021, **@2021** Линк **1.000**

141. Papadimitriou, S, Tegou, A, Pavlidou, E, **Armyanov, S**, **Valova, E**, Kokkinidis, G, Sotiropoulos, S. Preparation and characterisation of platinum- and gold-coated copper, iron, cobalt and nickel deposits on glassy carbon substrates. Electrochimica Acta, 53, 22, 2008, ISSN:134686, DOI:10.1016/j.electacta.2008.04.015, 6559-6567. ISI IF:3.078

Цитира се в:

384. Reboul J., Li Z. Y., Yuan J., Nakatsukaad K., Saitoae M., Mori K., Yamashita H., Y. Xia & Louis C., "Synthesis of small Ni-core–Au-shell catalytic nanoparticles on TiO2 by galvanic replacement reaction", Nanoscale Advances, 3, 823-835 (2021), **@2021** Линк **1.000**

385. Wang N., Cao P., Sun S., Ma H., Lin M., "Hollow Multiple Noble Metallic Nanoalloys by Mercury-Assisted Galvanic Replacement Reaction for Hydrogen Evolution", Inorg. Chem., 60, 3471–3478 (2021), **@2021** Линк **1.000**

142. **Milkova, V.**, **Kamburova, K.**, Petkanchin, I., **Radeva, T.**. Complexation of ferric oxide particles with pectins of different charge density. Langmuir, 24, 17, 2008, ISSN:7437463, DOI:10.1021/la8012602, 9495-9499. ISI IF:3.789

Цитира се в:

386. Sennato, S., Chauveau, E., Casciardi, S., Bordi, F., Truzzolillo, D., The double-faced electrostatic behavior of PNIPAm microgels, Polymers, 13 (7), art. no. 1153 (2021), **@2021** Линк **1.000**

143. Dimitrov, D.I., **Milchev, A.**, Binder, K.. Local viscosity in the vicinity of a wall coated by polymer brush from green-kubo relations. Macromolecular Theory and Simulations, 17, 6, 2008, ISSN:10221344, DOI:10.1002/mats.200800038, 313-318

Цитира се в:

387. Zheng, J., Jian, Y. " Space electroosmotic thrusters in ion partitioning soft nanochannels", Micromachines 12(7), 777, 2021, **@2021** Линк **1.000**

144. Dimitrov, DI, **Milchev, A.**, Binder, K.. Forced imbibition - a tool for separate determination of Laplace pressure and drag force in capillary filling experiments. Physical Chemistry Chemical Physics, 10, 14, 2008, 1867-1869. ISI IF:4.493

Цитира се в:

388. Li, G., Su, Y., Guo, Y., Hao, Y., Li, L. "Frontier Enhanced Oil Recovery (EOR) Research on the Application of Imbibition Techniques in High-Pressure Forced Soaking of Hydraulically Fractured Shale Oil Reservoirs". Geofluids, 2021, art. no. 6634357, 2021, **@2021** Линк **1.000**

389. Liu, Z., Zhao, D., Yang, H., Li, G., Wang, W. "Experimental study on the spontaneous imbibition characteristics of accumulated coal grains". Fuel, 288, art. no. 119634, 2021, **@2021** Линк **1.000**

145. **Georgieva, J**, **Armyanov, S**, **Valova, E**, Philippidis, N, Poulios, I, Sotiropoulos, S. Photoelectrocatalytic activity of electrosynthesised tungsten trioxide-titanium dioxide bi-layer coatings for the photooxidation of organics. Journal of Advanced Oxidation Technologies, 11, 2, 2008, ISSN:12038407, 300-307. ISI IF:0.988

Цитира се в:

390. Razali N. A. M., Salleha W. N. W., Aziz F., Jyea L. W., Yusof N., Ismail A. F., "Review on tungsten trioxide as a photocatalysts for degradation of recalcitrant pollutants", J. Cleaner Production, 309, 127438 (2021), **@2021** Линк **1.000**

146. Iankov, R., Cherneva, S., **Stoychev, D.**. Investigation of material properties of thin copper films through finite element modelling of microindentation test. Applied Surface Science, 254, 17, 2008, ISSN:1694332, DOI:10.1016/j.apsusc.2008.02.101, 5460-5469

Цитира се в:

391. Programming Techniques for Energy-Efficient Software April 2021 DOI: 10.1007/978-3-030-71616-5_15 In book: Advanced Computing in Industrial Mathematics Vesselin IossifovVesselin Iossifov, **@2021** **1.000**

147. **Hodzhaoglu, F.**, Kurniawan, F., Mirsky, V., Nanev, C.. Gold nanoparticles induce protein crystallization. Crystal Research and Technology, 43, 6, 2008, ISSN:2321300, DOI:10.1002/crat.200811125, 588-593

Цитира се в:

392. Chen, Wenqian, et al. "Biopurification of monoclonal antibody (mAb) through crystallisation." Separation and Purification Technology, 118358, 2021, **@2021** **1.000**

393. Chen, Wenqian, et al. "Protein purification with nanoparticle-enhanced crystallisation." Separation and Purification Technology, 255: 117384, 2021, **@2021** **1.000**

394. Sharaf, Omar Z., et al. "Radiation stability and photothermal performance of surface-functionalized plasmonic nanofluids for direct-absorption solar applications." Solar Energy Materials and Solar Cells, 227: 111115, 2021, **@2021** **1.000**

395. Terehova, Maria, et al. "Comparison of the effects of dendrimer, micelle and silver nanoparticles on phospholipase A2 structure." Journal of Biotechnology, 331: 48-52, 2021, **@2021** **1.000**

148. **Milchev, A**. Excess free energy of nanoparticles in a polymer brush. 2008

Цитира се в:

396. "How a Polymer Brush Interacts with Inclusions and Alters Their Interaction", Spencer, R., Ha, B.-Y., Macromolecules 54(3), 2021, DOI: 10.1021/acs.macromol.0c02179, **@2021** **1.000**

397. Durmaz, E.N., Sahin, S., Virga, E., De Beer, S., De Smet, L.C.P.M., De Vos, W.M. "Polyelectrolytes as Building Blocks for Next-Generation Membranes with Advanced Functionalities". ACS Applied Polymer Materials, 3 (9), pp. 4347-4374, 2021, **@2021** Линк **1.000**

398. Spencer, R.K.W., Ha, B.-Y. "How a Polymer Brush Interacts with Inclusions and Alters Their Interaction". Macromolecules, 54 (3), pp. 1304-1313, 2021, **@2021** Линк **1.000**

399. Yu, Y., Brió Pérez, M., Cao, C., de Beer, S. "Switching (bio-) adhesion and friction in liquid by stimulus responsive polymer coatings". European Polymer Journal, 147, art. no. 110298, 2021, **@2021** Линк **1.000**

149. **Ranguelov, B.**, Stoyanov, S.. Instabilities at vicinal crystal surfaces: Competition between electromigration of adatoms and kinetic memory effect. Physical Review B - Condensed Matter and Materials Physics, 77, 20, 2008, ISSN:10980121, DOI:10.1103/PhysRevB.77.205406

Цитира се в:

400. Guin, L., Jabbour, M.E., Shaabani-Ardali, L., Triantafyllidis, N. "Revisiting step instabilities on crystal surfaces. Part II: General theory". Journal of the Mechanics and Physics of Solids 156, 104582, 2021, **@2021** Линк **1.000**

150. **Popova, H.**, **Milchev, A.**. "Anomalous diffusion of a tethered membrane: A Monte Carlo investigation". Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 77, 4, American Physical Society, 2008, ISSN:15393755, DOI:10.1103/PhysRevE.77.041906, 041906. ISI IF:2.288

Цитира се в:

401. Polson, James M. , Garcia, Edgar J. and Klotz, Alexander R. "Flatness and intrinsic curvature of linked-ring membranes". Soft Matter 17, 10505-10515, 2021, **@2021** Линк **1.000**

151. **Tatchev, D.**. Structure analysis of multiphase systems by anomalous small-angle X-ray scattering. Philosophical Magazine, 88, 12, 2008, ISSN:14786435, DOI:10.1080/14786430802279760, 1751-1772

Цитира се в:

402. Gericke, E., Wallacher, D., Wendt, R., Greco, G., Krumrey, M., Raoux, S., Hoell, A., Mascotto, S. "Direct Observation of the Xenon Physisorption Process in Mesopores by Combining in Situ Anomalous Small-Angle X-ray Scattering and X-ray Absorption Spectroscopy" (2021) Journal of Physical Chemistry Letters, 12 (16), pp. 4018-4023, **@2021** Линк **1.000**

152. Novaković, T., Radić, N., Grbić, B., Marinova, T., Stefanov, P., **Stoychev, D.**. Oxidation of n-hexane over Pt and Cu-Co oxide catalysts supported on a thin-film zirconia/stainless steel carrier. Catalysis Communications, 9, 6, Elsevier, 2008, ISSN:15667367, DOI:10.1016/j.catcom.2007.10.030, 1111-1118. SJR:1.081, ISI IF:3.699

Цитира се в:

403. Feng, Y; Wang, CC; (...); Deng, JG, Catalytic stability enhancement for pollutant removal via balancing lattice oxygen mobility and VOCs adsorption, JOURNAL OF HAZARDOUS MATERIALS 424, Part A, 15 February 2022, 127337 https://doi.org/10.1016/j.jhazmat.2021.127337Get rights and content, **@2021** **1.000**

153. **Milchev, A**. Molecular dynamics simulations of capillary rise experiments in nanotubes coated with polymer brushes. 2008

Цитира се в:

404. Ganeshan, K., Williams, D.M. "An implicit discontinuous Galerkin finite element discrete Boltzmann method for high Knudsen number flows". Physics of Fluids, 33 (3), art. no. 032019, 2021, **@2021** Линк **1.000**

405. Peng, X., Wang, X., Du, Z., Zeng, F. "Phase-field simulations of precursor film in microcapillary imbibition for liquid-liquid systems". International Journal of Multiphase Flow, 144, art. no. 103789, 2021, **@2021** Линк **1.000**

406. Zhang, L., Yu, X., Chen, Z., Li, J., Hui, G., Yang, M., Yu, R. "Capillary dynamics of confined water in nanopores: The impact of precursor films". Chemical Engineering Journal, 409, art. no. 128113, 2021, **@2021** Линк **1.000**

154. **Panchev, N.**, **Khristov, Khr.**, Czarnecki, J., Exerowa, D., Bhattacharjee, S., Masliyah, J.. A new method for water-in-oil emulsion film studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 315, 3-Jan, 2008, ISSN:9277757, DOI:10.1016/j.colsurfa.2007.07.013, 74-78. JCR-IF (Web of Science):2.714

Цитира се в:

407. Chatzigiannakis E., Jaensson N., Vermant J., Thin liquid films: Where hydrodynamics, capillarity, surface stresses and intermolecular forces meet, Current Opinion in Colloid and Interface Science, Vol 53, , 101441, **@2021** Линк **1.000**

155. **Karamanov, A.**, Ergul, S., Akyildiz, M., Pelino, M.. Sinter-crystallization of a glass obtained from basaltic tuffs. Journal of Non-Crystalline Solids, 354, 9-Feb, 2008, ISSN:223093, DOI:10.1016/j.jnoncrysol.2007.07.040, 290-295

Цитира се в:

408. de Lima, L.F., Perottoni, C.A., Zorzi, J.E., Cruz, R.C.D. Effect of iron on the microstructure of basalt glass-ceramics obtained by the petrurgic method (2021) International Journal of Applied Ceramic Technology, 18 (6), pp. 1950-1959., **@2021** **1.000**

409. Ercioglu, N., Ubay, E. An environmentally friendly process for preparing commercial ceramic foam composites based on frit/glass wastes (2021) International Journal of Applied Ceramic Technology, 18 (3), pp. 850-861, **@2021** **1.000**

410. Oliver, C., Schuh, C.A. Kissinger-Style Kinetic Analysis for Sintering Dilatometry Data (2021) Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 52 (10), pp. 4479-4487., **@2021** **1.000**

411. Pavkov, V., Bakić, G., Maksimović, V., Cvijović-Alagić, I., Đorđević, M. P., Bučevac, D., & Matović, B. (2021). High-Density Ceramics Obtained By Andesite Basalt Sintering. DOI: https://doi.org/10.21203/rs.3.rs-827727/v1, **@2021** **1.000**

412. Si, J., Wang, Z., Li, J., Zuo, C., Zhang, P., Wei, C., Wang, J., Li, W., Miao, S. Effects of CaO added to raw basalt on producing continuous basalt fibers and their mechanical properties (2021) Journal of Non-Crystalline Solids, 568, art. no. 120941, **@2021** **1.000**

156. Barbieri, L., **Karamanov, A.**, Corradi, A., Lancellotti, I., Pelino, M., Rincon, J.Ma.. "Structure, chemical durability and crystallization behavior of incinerator-based glassy systems?. Journal of Non-Crystalline Solids, 354, 9-Feb, 2008, ISSN:223093, DOI:10.1016/j.jnoncrysol.2007.07.080, 521-528

Цитира се в:

413. Angjusheva, B., Jovanov, V., & Fidanchevski, E. (2021). Conversion of coal fly ash glass into glass-ceramics by controlled thermal treatment. Macedonian Journal of Chemistry and Chemical Engineering, 40(2)., **@2021** **1.000**

414. Koizumi, S., Gao, X., Sukenaga, S., Kanehashi, K., Takahashi, T., Ueda, S., Kitamura, S.-Y. Influence of Glass Structure on the Dissolution Behavior of Fe from Glassy Slag of CaO–SiO2–FeOx System (2021) Journal of Sustainable Metallurgy, 7 (2), pp. 583-596., **@2021** **1.000**

415. Lin, D.-F., Wang, W.-J., Chen, C.-W., Lin, K.-L. Applying mixture of municipal incinerator bottom ash and sewage sludge ash for ceramic tile manufacturing (2021) Materials, 14 (14), art. no. 3863, , **@2021** **1.000**

157. **Karamanov, A.**, Pelino, M.. Induced crystallization porosity and properties of sintereds diopside and wollastonite glass-ceramics. Journal of the European Ceramic Society, 28, 3, 2008, ISSN:9552219, DOI:10.1016/j.jeurceramsoc.2007.08.001, 555-562

Цитира се в:

416. Aldefae, A. H., Edan, A. S., & Essa, A. F. (2021, February). Fires Accidents and its Implication on Mechanical and Structural Properties of Different Construction Materials. In IOP Conference Series: Materials Science and Engineering (Vol. 1058, No. 1, p. 012026). IOP Publishing., **@2021** **1.000**

417. Amorós, J.L., Blasco, E., Feliu, C., Moreno, A. Effect of particle size distribution on the evolution of porous, microstructural, and dimensional characteristics during sinter-crystallisation of a glass-ceramic glaze (2021) Journal of Non-Crystalline Solids, 572, art. no. 121093, **@2021** **1.000**

418. Angjusheva, B., Jovanov, V., & Fidanchevski, E. (2021). Conversion of coal fly ash glass into glass-ceramics by controlled thermal treatment. Macedonian Journal of Chemistry and Chemical Engineering, 40(2)., **@2021** **1.000**

419. Dimitriadis, K., Tulyaganov, D.U., Agathopoulos, S. Development of novel alumina-containing bioactive glass-ceramics in the CaO-MgO-SiO2 system as candidates for dental implant applications (2021) Journal of the European Ceramic Society, 41 (1), pp. 929-940, **@2021** **1.000**

420. Elsayed, H., Colombo, P., Crovace, M.C., Zanotto, E.D., Bernardo, E. Suitability of Biosilicate® glass-ceramic powder for additive manufacturing of highly porous scaffolds (2021) Ceramics International, 47 (6), pp. 8200-8207., **@2021** **1.000**

421. Greene, D.J., Daly, D., Doyle, J.J., Rafferty, A. Caustic-Stable, Controlled-Pore Glass-Ceramics (2021) Crystal Growth and Design, 21 (2), pp. 809-816., **@2021** **1.000**

422. Guan, Y., Chen, W., Sun, D., Liu, K., Li, P. Effect of calcium carbonate on the preparation of porous glass-ceramics from phosphorus slag and coal gangue [Article@碳酸钙对磷渣-煤矸石烧结多孔微晶玻璃结构和性能的影响] (2021) Gongneng Cailiao/Journal of Functional Materials, 52 (4), pp. 04105-04109., **@2021** **1.000**

423. Lin, Y., Yan, B., Shu, Q., Fabritius, T. Synergetic valorization of basic oxygen furnace slag and stone coal: Metal recovery and preparation of glass-ceramics (2021) Waste Management, 135, pp. 158-166., **@2021** **1.000**

424. Montoya-Quesada, E., Villaquirán-Caicedo, M. A., & de Gutiérrez, R. M. (2021). New glass-ceramic from ternary–quaternary mixtures based on Colombian industrial wastes: Blast furnace slag, cupper slag, fly ash and glass cullet. Boletín de la Sociedad Española de Cerámica y Vidrio., **@2021** **1.000**

425. Rahimi, M., Sadeghi, B., & Kargar Razi, M. (2021). Influence of Al2O3 Additive on Mechanical Properties of Wollastonite Glass-Ceramics. ADMT Journal, 14(3), 25-33., **@2021** **1.000**

426. Scanferla, P., Conte, A., Sin, A., Franchin, G., Colombo, P. The effect of fillers on the fresh and hardened properties of 3D printed geopolymer lattices (2021) Open Ceramics, 6, art. no. 100134, **@2021** **1.000**

158. **Milchev, A**. Evidence of thin-film precursors formation in hydrokinetic and atomistic simulations of nano-channel capillary filling. 2008

Цитира се в:

427. Ganeshan, K., Williams, D.M. "An implicit discontinuous Galerkin finite element discrete Boltzmann method for high Knudsen number flows". Physics of Fluids, 33 (3), art. no. 032019, 2021, **@2021** Линк **1.000**

428. Peng, X., Wang, X., Du, Z., Zeng, F. "Phase-field simulations of precursor film in microcapillary imbibition for liquid-liquid systems". International Journal of Multiphase Flow, 144, art. no. 103789, 2021, **@2021** Линк **1.000**

429. Zhang, L., Yu, X., Chen, Z., Li, J., Hui, G., Yang, M., Yu, R. "Capillary dynamics of confined water in nanopores: The impact of precursor films". Chemical Engineering Journal, 409, art. no. 128113, 2021, **@2021** Линк **1.000**

159. Eichelbaum, M., Rademann, K., Hoell, A., **Tatchev, D.**, Weigel, W., St¨oßer, R., Pacchioni, G. Photoluminescence of atomic gold and silver particles in soda-lime silicate glasses. Nanotechnology, 19, IOP PUBLISHING, 2008, DOI:doi:10.1088/0957-4484/19/13/135701, 135701-(9pp). ISI IF:3.821

Цитира се в:

430. Inwati, G.K., Kumar, P., Singh, M., Yadav, V.K., Kumar, A., Soma, V.R., Swart, H.C. "Study of photoluminescence and nonlinear optical behaviour of AgCu nanoparticles for nanophotonics" (2021) Nano-Structures and Nano-Objects, 28, art. no. 100807, **@2021** Линк **1.000**

431. Khutsishvili, S.S., Toidze, P., Donadze, M., Gabrichidze, M., Makhaldiani, N., Agladze, T. "Structural Surface Features of Paramagnetic Multifunctional Nanohybrids Based on Silver Oleic Acid" (2021) Journal of Cluster Science, 32 (5), pp. 1351-1359, **@2021** Линк **1.000**

432. Kumar, P., Chandra Mathpal, M., Jagannath, G., Prakash, J., Maze, J.-R., Roos, W.D., Swart, H.C. "Optical limiting applications of resonating plasmonic Au nanoparticles in a dielectric glass medium" (2021) Nanotechnology, 32 (34), art. no. 345709, **@2021** Линк **1.000**

433. Reduto, I., Babich, E., Zolotovskaya, S., Abdolvand, A., Lipovskii, A., Zhurikhina, V. "Controlled metallization of ion-exchanged glasses by thermal poling" (2021) Journal of Physics Condensed Matter, 33 (50), art. no. 505001, **@2021** Линк **1.000**

434. Sidorov, A.I., Kirpichenko, D.A., Yurina, U.V., Podsvirov, O.A. "Structural Changes in Silica Glass under the Action of Electron Beam Irradiation: The Effect of Irradiation Dose" (2021) Glass Physics and Chemistry, 47 (2), pp. 118-125, **@2021** Линк **1.000**

435. Skvortsov, A., Babich, E., Redkov, A., Lipovskii, A., Zhurikhina, V. "Stable in biocompatible buffers silver nanoisland films for sers" (2021) Biosensors, 11 (11), art. no. 448, **@2021** Линк **1.000**

436. Swaminathan, S., Rao, V.G., Bera, J.K., Chandra, M. "The Pivotal Role of Hot Carriers in Plasmonic Catalysis of C−N Bond Forming Reaction of Amines" (2021) Angewandte Chemie - International Edition, 60 (22), pp. 12532-12538, **@2021** Линк **1.000**

437. Tikhonov, N.I., Khutsishvili, S.S., Vakul'skaya, T.I., Kuznetsova, N.P., Emel'yanov, A.I., Pozdnyakov, A.S. "Formation of Silver-Containing Nanocomposites during Thermolysis of Polyacrylonitrile Salt: EPR Study" (2021) Polymer Science - Series B, 63 (2), pp. 175-181, **@2021** Линк **1.000**

438. Wu, Y., Lin, H., Li, R., Lin, S., Wu, C., Huang, Q., Xu, J., Cheng, Y., Wang, Y. "Laser-direct-writing of molecule-like Ag: Mx +nanoclusters in transparent tellurite glass for 3D volumetric optical storage" (2021) Nanoscale, 13 (46), pp. 19663-19670, **@2021** Линк **1.000**

439. Ziefuss, A.R., Steenbock, T., Benner, D., Plech, A., Göttlicher, J., Teubner, M., Grimm-Lebsanft, B., Rehbock, C., Comby-Zerbino, C., Antoine, R., Amans, D., Chakraborty, I., Bester, G., Nachev, M., Sures, B., Rübhausen, M., Parak, W.J., Barcikowski, S. "Photoluminescence of Fully Inorganic Colloidal Gold Nanocluster and Their Manipulation Using Surface Charge Effects" (2021) Advanced Materials, 33 (31), art. no. 2101549, **@2021** Линк **1.000**

160. **Popova, H.**, **Milchev, A.**. "Adsorption of self-avoiding tethered membranes: A Monte Carlo simulation study". Journal of Chemical Physics, 129, 21, American Institute of Physics Publising, 2008, ISSN:219606, DOI:10.1063/1.3028055, 215103. SJR:1.214, ISI IF:2.952

Цитира се в:

440. Polson, J.M., Garcia, E.J., Klotz, A.R. "Flatness and intrinsic curvature of linked-ring membranes". Soft Matter 17(46), pp. 10505-10515, 2021, **@2021** Линк **1.000**

161. Zapryanova, T., **Jordanov, N.**, **Milchev, A.**. Electrochemical growth of single copper crystals on glassy carbon and tungsten substrates. Journal of Electroanalytical Chemistry, 612, 1, Elsevier, 2008, ISSN:1572-6657, DOI:10.1016/j.jelechem.2007.09.012, 47-52. SJR (Scopus):0.727

Цитира се в:

441. Ha, Y., Lee, Y., Yu, A., Lee, S.H., Lee, C., Kim, M.H., Lee, Y., Direct growth of single crystalline ReO3 nanorods on a tungsten (W) microwire for enhanced electron-transfer reaction kinetics, Current Applied Physics 21 (2021) 20-24. ISSN: 1567-1739, **@2021** **1.000**

442. Lin, C., Hu, J., Zhang, J., Yang, P., Kong, X., Han, G., Li, Q., An, M., A comparative investigation of the effects of some alcohols on copper electrodeposition from pyrophosphate bath, Surfaces and Interfaces 22 (2021) 100804. ISSN: 2468-0230, **@2021** **1.000**

443. Lin, C., Hu, J., Zhang, Q., Zhang, J., Yang, P., Fan, X., Li, Q., An, M., Deciphering the levelling mechanism of sorbitol for copper electrodeposition via electrochemical and computational chemistry study, Journal of Electroanalytical Chemistry 880 (2021) 114887. ISSN: 1572-6657, **@2021** **1.000**

162. M. Febbo, **A. Milchev**, V. Rostiashvili, D. Dimitrov, T. A. Vilgis. Dynamics of a stretched nonlinear polymer chain.. 2008

Цитира се в:

444. Borodin, I.P., Balabaev, N.K. " Viscoelasticity of a Stretched Semiflexible Polymer Chain with Fixed Ends". Polymer Science - Series A 63(2), pp. 180-195, 2021, **@2021** Линк **1.000**

2009

163. **Milchev, A**. Forced-induced desorption of a polymer chain adsorbed on an attractive surface: Theory and computer experiment. 2009

Цитира се в:

445. Morozova, T.I., García, N.A., Barrat, J.-L., Luengo, G.S., Léonforte, F. " Adsorption and Desorption of Polymers on Bioinspired Chemically Structured Substrates". ACS Applied Materials and Interfaces 13(25), pp. 30086-30097, 2021, **@2021** Линк **1.000**

446. Taylor, M.P., Basnet, S., Luettmer-Strathmann, J. " Partition-function-zero analysis of polymer adsorption for a continuum chain model". Physical Review E 104(3), 034502, 2021, **@2021** Линк **1.000**

164. **Milchev A.**. The escape transition of a polymer: A unique case of non-equivalence between statistical ensembles. The European Physical Journal E, 29, 1, 2009, 9-25

Цитира се в:

447. Cannizzo, A., Florio, G., Puglisi, G., Giordano, S. "Temperature controlled decohesion regimes of an elastic chain adhering to a fixed substrate by softening and breakable bonds". Journal of Physics A: Mathematical and Theoretical 54(44), 445001, 2021, **@2021** Линк **1.000**

165. Mitov M., Hristov G., Hristova E., **Rashkov R.**, **Arnaudova M.**, Zielonka A.. Complex performance of novel CoNiMnB electrodeposits in alkaline borohydride solutions. Environmental Chemistry Letters, 7, 2, Springer, 2009, ISSN:1610-3661, DOI:10.1007/s10311-008-0153-2, 167-173. ISI IF:2.573

Цитира се в:

448. Yao Y., Cao J., Yin W., Zhang Q., Yang L., Wei X."Modified Graphene Sheets as Promising Cathode Catalysts for Li-O2Batteries: A First-Principles Study".Journal of Physical Chemistry CVolume 125, Issue 8, Pages 4363 - 43704 March 2021, **@2021** Линк **1.000**

166. Chibbaro, S., Biferale, L., Binder, K., Dimitrov, D, Diotallevi, F., **Milchev, A.**. Hydrokinetic simulations of nanoscopic precursor films in rough channels. Journal of Statistical Mechanics: Theory and Experiment, 06, P06007, 2009, DOI:10.1088/1742-5468/2009/06/P06007, ISI IF:2.404

Цитира се в:

449. Peng, X., Wang, X., Du, Z., Zeng, F. "Phase-field simulations of precursor film in microcapillary imbibition for liquid-liquid systems". International Journal of Multiphase Flow 144, 103789, 2021, **@2021** Линк **1.000**

167. **Rashkov R.**, **Arnaudova M.**, **Avdeev G.**, Zielonka A., Jannakoudakis P., Jannakoudakis A., Theodoridou E.. NiW/TiOx composite layers as cathode material for hydrogen evolution reaction. International Journal of Hydrogen Energy, 34, 5, Elsevier, 2009, ISSN:0360-3199, DOI:10.1016/j.ijhydene.2009.01.001, 2095-2100. SJR:1.141, ISI IF:3.313

Цитира се в:

450. Laszczyńska, A., Tylus, W., Szczygieł, I., Electrocatalytic properties for the hydrogen evolution of the electrodeposited Ni–Mo/WC composites, (2021) International Journal of Hydrogen Energy, 46 (44), pp. 22813-22831., **@2021** Линк **1.000**

168. **Avdeev G**, Amarilla JM, Rojo JM, Petrov K, Rojas RM. Composition and structure of acid leached LiMn2-yTiyO4 (0.2≤y≤1.5) spinels. Journal of Solid State Chemistry, 182, 12, 2009, DOI:https://doi.org/10.1016/j.jssc.2009.09.009, 3226-3231. ISI IF:2.2 **(x)**

Цитира се в:

451. Rozhdestvenska, L.M., Chaban, M.O., Dzyazko, Y.S., Palchik, O.V., Dzyazko, O.G., Formation of lithium-selective sorbent in nanoreactors of the support based on titanium dioxide, (2021) Applied Nanoscience (Switzerland)., **@2021** Линк **1.000**

169. Andreeva D, Ivanov I, Ilieva L, Abrashev MV, Zanella R, Sobczak JW, W Lisowski, M Kantcheva, **G Avdeev**, K Petrov. Gold catalysts supported on ceria doped by rare earth metals for water gas shift reaction: Influence of the preparation method. Applied Catalysis A: General, 357, 2, 2009, DOI:doi.org/10.1016/j.apcata.2009.01.027, 159-169. ISI IF:4.35 **(x)**

Цитира се в:

452. Kosinski, M.R., Vizcaíno, A.J., Gómez-Sainero, L.M., Carrero, A., Baker, R.T., Methanol reforming by nanostructured Pd/Sm-doped ceria catalysts, (2021) Applied Catalysis B: Environmental, 286, art. no. 119935., **@2021** Линк **1.000**

170. **Mirkova, L.**, **Monev, M.**, Petkova, N.. "Hydrogen evolution, diffusion and solution in Ni/based composite electrodeposits?. ECS Transactions, 19, 10, 2009, ISBN:9.78161E+12, ISSN:19385862, DOI:10.1149/1.3237112, 105-112

Цитира се в:

453. Protsenko, V., Danilov, F., "Electrolytic Production of Hydrogen Using Electrodeposited Electrocatalysts: Basic Principles and Some Recent Case Studies", Advances in energy research, 34, M.J. Acosta, Editor, Nova Science Publishers, Inc., New York, Chapter 1, 1-48, 2021, **@2021** **1.000**

171. Amarilla JM, Petrov K, Picó F, **Avdeev G**, Rojo JM, Rojas RM. Sucrose-aided combustion synthesis of nanosized LiMn1.99-yLiyM0.01O4 (M = Al3+, Ni2+, Cr3+, Co3+, y = 0.01 and 0.06) spinels. Characterization and electrochemical behavior at 25 and at 55 °C in rechargeable lithium cells.. Journal of Power Sources, 191, 2, 2009, DOI:doi.org/10.1016/j.jpowsour.2009.02.026, 591-600. ISI IF:6.11 **(x)**

Цитира се в:

454. Zhang, S., Deng, W., Momen, R., Yin, S., Chen, J., Massoudi, A., Zou, G., Hou, H., Deng, W., Ji, X., Element substitution of a spinel LiMn2O4cathode, (2021) Journal of Materials Chemistry A, 9 (38), pp. 21532-21550., **@2021** Линк **1.000**

172. **Lyutov, V.**, Georgiev, G., **Tsakova, V.**. Comparative study on the electrochemical synthesis of polyaniline in the presence of mono- and poly(2-acrylamido-2-methyl-1-propanesulfonic) acid. Thin Solid Films, 517, 24, 2009, ISSN:406090, DOI:10.1016/j.tsf.2009.05.010, 6681-6688

Цитира се в:

455. Уразов, К.А., Грибкова, О.Л., Тамеев, А.Р., Рахимова, А.К., "Влияние состава комплекса полианилина на фотоэлектрохимические свойства тонких пленок CZTSE", Доклады НАН РК 5, 189-195, 2021, **@2021** **1.000**

173. **Ranguelov, B.**, Stoyanov, S.. Instability of vicinal crystal surfaces with transparent steps: Transient kinetics and non-local electromigration. Surface Science, 603, 18, 2009, ISSN:396028, DOI:10.1016/j.susc.2009.07.040, 2907-2911

Цитира се в:

456. Dvornichenko, A.V. "Electromigration effects at epitaxial growth of thin films: Phase-field modeling". Ukrainian Journal of Physics, 66 (5), pp. 439-449, 2021, **@2021** Линк **1.000**

457. Hervieu, Y.Y. "On the kinetics of the early stage of growth of III-V nanowires". Journal of Crystal Growth, 568-569, art. no. 126187, 2021, **@2021** Линк **1.000**

174. Tegou, A, **Armyanov, S**, **Valova, E**, Steenhaut, O, Hubin, A, Kokkinidis, G, Sotiropoulos, S. Mixed platinum-gold electrocatalysts for borohydride oxidation prepared by the galvanic replacement of nickel deposits. Journal of Electroanalytical Chemistry, 634, 2, 2009, ISSN:220728, DOI:10.1016/j.jelechem.2009.07.016, 104-110. ISI IF:2.338

Цитира се в:

458. A. ElSheikh A. M., Backović G., Oliveira R. C. P., Sequeira C. A. C., McGregor J., Šljukić B., Santos D.M. F., "Carbon-Supported Trimetallic Catalysts (PdAuNi/C) for Borohydride Oxidation Reaction", Nanomaterials, 11, 1441 (2021), **@2021** Линк **1.000**

459. Balciunaite A., Zabielaite A., Upskuviene D., Tamašauskaite-Tamašiunaite L., Stalnioniene I., Naruškevicius L., Vaiciuniene J., Selskis A., Juškenas R., Norkus E, "Platinum Nanoparticles Modified Copper/Titanium Electrodes as Electrocatalysts for Borohydride Oxidation", Materials, 14, 7663 (2021), **@2021** Линк **1.000**

460. Duan, D., Feng, J., You X. , Zhou X., Wang Y., Chen L., Liu S., "Evaluation of Co–Au bimetallic nanoparticles as anode electrocatalyst for direct borohydride-hydrogen peroxide fuel cell", Ionics, 27, 3521-3532 (2021), **@2021** Линк **1.000**

461. Hu J., Xie M., Chen Y., Fang J., Yang Y., "Thermodynamic assessment of Au-Pt-Ni system", Materialstoday Communications, 26, 102061 (2021), **@2021** Линк **1.000**

175. Bhattacharya, S., Rostiashvili, VG, **Milchev, A.**, Vilgis, TA. Polymer desorption under pulling: A dichotomic phase transition. Physical Review E, 79, 3, 2009, DOI:DOI: 10.1103/PhysRevE.79.030802, 030802. ISI IF:2.288

Цитира се в:

462. Taylor, M.P., Basnet, S., Luettmer-Strathmann, J. "Partition-function-zero analysis of polymer adsorption for a continuum chain model". Physical Review E 104(3), 034502, 2021, **@2021** Линк **1.000**

176. Markova-Velichkova, M., Iordanova, R., Dimitriev, Y., Klissurski, D., **Avdeev, G.**. Direct mechanochemical synthesis of zinc vanadate. Comptes Rendus de L'Academie Bulgare des Sciences, 62, 2, 2009, ISSN:13101331, 203-206

Цитира се в:

463. Kesavan, G., Chen, S.-M., Sonochemical-assisted synthesis of zinc vanadate microstructure for electrochemical determination of metronidazole, (2021) Journal of Materials Science: Materials in Electronics, 32 (7), pp. 9377-9391., **@2021** Линк **1.000**

177. Ergul, S., Ferrante, F., Pisciella, P., **Karamanov, A.**, Pelino, M.. Characterization of basaltic tuffs and their applications for the production of ceramic and glass-ceramic materials. Ceramics International, 35, 7, 2009, ISSN:2728842, DOI:10.1016/j.ceramint.2009.03.026, 2789-2795

Цитира се в:

464. de Lima, L. F., Perottoni, C. A., Zorzi, J. E., & Cruz, R. C. D. (2021). Effect of iron on the microstructure of basalt glass-ceramics obtained by the petrurgic method. International Journal of Applied Ceramic Technology, 18(6), 1950-1959., **@2021** **1.000**

178. Yaneva, J., Dimitrov, D.I., **Milchev, A.**, Binder, K.. Nanoinclusions in polymer brushes with explicit solvent - A molecular dynamics investigation. Journal of Colloid and Interface Science, 336, 1, 2009, ISSN:219797, DOI:10.1016/j.jcis.2009.03.062, 51-58

Цитира се в:

465. Durmaz, E.N., Sahin, S., Virga, E., De Beer, S., De Smet, L.C.P.M., De Vos, W.M. "Polyelectrolytes as Building Blocks for Next-Generation Membranes with Advanced Functionalities". ACS Applied Polymer Materials, 3 (9), pp. 4347-4374, 2021, **@2021** Линк **1.000**

179. Bhattacharya, A., Morrison, W.H., Luo, K., Ala-Nissila, T., Ying, S.-C., **Milchev, A.**, Binder, K.. Scaling exponents of forced polymer translocation through a nanopore. European Physical Journal E, 29, 4, 2009, ISSN:12928941, DOI:10.1140/epje/i2009-10495-5, 423-429

Цитира се в:

466. Chauhan, K., Kumar, S. "Dynamics of a polymer chain translocating through varying cone-shaped channels". Physical Review E, 103 (4), art. no. 042501, 2021, **@2021** Линк **1.000**

467. Lu, Y., Wang, Z., An, L., Shi, A.-C. "Polymer Translocation Time" Journal of Physical Chemistry Letters, 12 (47), pp. 11534-11542, 2021, **@2021** Линк **1.000**

468. Tilahun, M., Tatek, Y.B. "End-Pulled Translocation of a Star Polymer Out of a Confining Cylindrical Cavity". Macromolecular Theory and Simulations, 30 (2), art. no. 2000090, 2021, **@2021** Линк **1.000**

469. Wang, C., Wu, F., Yang, X., Chen, Y.-C., Luo, M.-B."Driven injection of a polymer into a spherical cavity: A Langevin dynamics simulation study". Chinese Physics B, 30 (10), art. no. 108202, 2021, **@2021** Линк **1.000**

180. **Georgieva, J.**, **Armyanov, S.**, Poulios, I., Sotiropoulos, S.. An all-solid photoelectrochemical cell for the photooxidation of organic vapours under ultraviolet and visible light illumination. Electrochemistry Communications, 11, 8, 2009, ISSN:13882481, DOI:10.1016/j.elecom.2009.06.019, 1643-1646

Цитира се в:

470. Kang X., Chaperman L., Galeckas A., Ammar S., Mammeri F., T. Norby, Chatzitakis A., "Water vapor photoelectrolysis in a solid-state photoelectrochemical cell with TiO2 nanotubes loaded with CdS and CdSe nanoparticles", ACS Appl. Mater. Interfaces, 13, 46875–46885 (2021), **@2021** Линк **1.000**

471. Van Hal M., Campos R., Lenaerts S., De Wael K., Verbruggen S.W., "Gas phase photofuel cell consisting of WO3- and TiO2-photoanodes and an air-exposed cathode for simultaneous air purification and electricity generation", Appl. Catalysis B: Environ. 6, 6780–6790 (2021), , **@2021** Линк **1.000**

181. **Zhivkov, A.M.**, **Gyurova, A.Y.**. Influence of cytoplasm electrolyte concentration on Maxwell-Wagner polarizability of bacteria E. coli. Journal of Physical Chemistry B, 113, 2009, 8375-8382. ISI IF:3.302

Цитира се в:

472. Gómez-Camacho, C.E., Pellicer Alborch, K., Bockisch, A., Neubauer, P., Junne, S., Ruggeri, B., Monitoring the Physiological State in the Dark Fermentation of Maize/Grass Silage Using Flow Cytometry and Electrooptic Polarizability Measurements, Bioenerg. Res. 14, 910–923 (2021)., **@2021** Линк **1.000**

473. Joo, H.W., Kwon, T.H., Lee, S.R., Wu, Y., Relaxation behavior in low frequency complex conductivity of sands caused by bacterial growth and biofilm formation by Shewanella oneidensis under a high salinity condition, Geophysics, 86, B389–B400, (2021)., **@2021** Линк **1.000**

182. Boiadjieva, Tz., Petrov, K., Kronberger, H., Tomandl, A., **Avdeev, G.**, Artner, W., Lavric, T., **Monev, M.**. Composition of electrodeposited Zn-Cr alloy coatings and phase transformations induced by thermal treatment. Journal of Alloys and Compounds, 480, 2, 2009, ISSN:9258388, DOI:10.1016/j.jallcom.2009.02.026, 259-264

Цитира се в:

474. Osuchowska, E., Buczko, E., Olkowicz, K., "Zn-Cr Alloy Coatings: Electrodeposition and Properties", Journal of KONBiN, Warsaw, 51(1), 29-42, 2021, **@2021** Линк **1.000**

475. Zhuang, R., Tan, Y., Liu, Y., ...Ouyang, Y., Du, Y., "Interdiffusion behaviors and mechanical properties of Zn–Cr system", Calphad, 74, 102308, 2021, **@2021** Линк **1.000**

183. Boiadjieva, T., **Monev, M.**, Tomandl, A., Kronberger, H., Fafilek, G.. Electrochemical studies on Zn deposition and dissolution in sulphate electrolyte. Journal of Solid State Electrochemistry, 13, 5, 2009, ISSN:14328488, DOI:10.1007/s10008-008-0594-3, 671-677

Цитира се в:

476. El Fazazi, A., Ouakki, M., Cherkaoui, M., "Electrochemical Deposition and Spectroscopy Investigation of Zn Coatings on Steel", Journal of Bio- and Tribo-Corrosion, 7(2), 58, 2021, **@2021** Линк **1.000**

477. Kwon, K., Keshari, S., Sangram, M., Mohanty, K., Deog, H., Hyun, Y., Yoo, D., "Potential-Dependent Passivation of Zinc Metal in a Sulfate-Based Aqueous Electrolyte", Langmuir, 37, 13218–13224, 2021, **@2021** Линк **1.000**

478. Ye, X., Saqib, M., Mao, J., Li, L., [...], "Spatiotemporally super-resolved dendrites nucleation and early-stage growth dynamics in Zinc-ion batteries", Cell Reports Physical Science, 2(5), 100420, 2021, **@2021** Линк **1.000**

479. Yuan, D., Zhao, J., Ren, H., Chen, Y., Chua, R., Jie, E.T.J., Cai, Y., Edison, E., Manalastas, W., Jr., Wong, M.W., Srinivasan, M., "Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries", Angew. Chem. Int. Ed. 60(13), 7213–7219, 2021, **@2021** Линк **1.000**

184. **Gyurova, A.Y.**, **Zhivkov, A.M.**. Influence of low concentration ethanol on membrane permeability of E. coli. Biotechnology and Biotechnological Equipment, 23, 2009, ISSN:1310-2818, DOI:10.1080/13102818.2009.10818468, 480-483. ISI IF:0.3

Цитира се в:

480. Roussel, C., de Paepe, K., Galia, W., de Bodt, J., Chalancon, S., Denis, S., Leriche, F., Vandekerkove, P., Ballet, N., Blanquet-Diot, S., de Wiele, T.V., Multi-targeted properties of the probiotic saccharomyces cerevisiae CNCM I-3856 against enterotoxigenic Escherichia coli (ETEC) H10407 pathogenesis across human gut models, Gut Microbes, 13, 1953246, (2021)., **@2021** Линк **1.000**

185. **Exerowa, D.**, **Gotchev, G.**, Kolarov, T., **Kristov, Khr.**, Levecke, B., Tadros, Th.. Comparison of oil-in-water emulsion films produced using ABA or ABn copolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 335, 3-Jan, 2009, ISSN:9277757, DOI:10.1016/j.colsurfa.2008.10.025, 50-54. ISI IF:2.714

Цитира се в:

481. Liu, D., Yang, M., Wang, D., Jing, X., Lin, Y., Feng, L., & Duan, X. (2021). Dpd study on the interfacial properties of peo/peo-ppo-peo/ppo ternary blends: Effects of pluronic structure and concentration. Polymers, 13(17) doi:10.3390/polym13172866, **@2021** Линк **1.000**

482. Muhammad Usman, Chengnan Zhang, Prasanna Jagannath Patil, Arshad Mehmood, Xiuting Li, Muhammad Bilal, Junaid Haider, Shabbir Ahmad. (2021). Potential applications of hydrophobically modified inulin as an active ingredient in functional foods and drugs - A review. Carbohydrate Polymers, 252 doi:10.1016/j.carbpol.2020.117176, **@2021** Линк **1.000**

186. **Karamanov, A.**, Arrizza, L., Ergul, S.. Sintered material from alkaline basaltic tuffs. Journal of the European Ceramic Society, 29, 4, 2009, ISSN:9552219,

DOI:10.1016/j.jeurceramsoc.2008.07.002, 595-601

Цитира се в:

483. DOI: https://doi.org/10.21203/rs.3.rs-827727/v1Pavkov, V., Bakić, G., Maksimović, V., Cvijović-Alagić, I., Đorđević, M. P., Bučevac, D., & Matović, B. (2021). High-Density Ceramics Obtained By Andesite Basalt Sintering., **@2021** **1.000**

187. **Karamanova, E.**, **Karamanov, A.**. Glass-ceramic frits from fly ash in terracotta production. Waste Management and Research, 27, 1, 2009, ISSN:0734242X, DOI:10.1177/0734242X08088694, 87-92

Цитира се в:

484. Ajadi, M. O. Physicochemical Analyses of Feldspar Ceramic Glazes Produced with Borax and Potash. International Journal of Advances in Engineering and Management (IJAEM)p Volume 3, Issue 7 July 2021, pp: 2326-2331 www.ijaem.net ISSN: 2395-5252, **@2021** **1.000**

485. OLANİYİ, A. M., & RAZAQ, K. O. R. Cullet To Glaze: Converting Waste For Ceramic Artistic, Economic And Environmental Development. European Journal of Engineering and Applied Sciences, 4(1), 1-7., **@2021** **1.000**

188. **Exerowa, D.**, **Gotchev, G.**, Kolarov, T., Kristov, Khr., Levecke, B., Tadros, Th.. 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, 3-Jan, 2009, ISSN:9277757, DOI:10.1016/j.colsurfa.2008.10.003, 87-91. ISI IF:2.714

Цитира се в:

486. Cardoso-Ugarte, G. A., López-Malo, A., Palou, E., Ramírez-Corona, N., Jiménez-Fernández, M., & Jiménez-Munguía, M. T. (2021). Stability of oregano essential oil encapsulated in double (w/o/w) emulsions prepared with mechanical or high-pressure homogenization and its effect in aspergillus niger inhibition. Journal of Food Processing and Preservation, 45(2) doi:10.1111/jfpp.15104, **@2021** Линк **1.000**

487. Muhammad Usman, Chengnan Zhang, Prasanna Jagannath Patil, Arshad Mehmood, Xiuting Li, Muhammad Bilal, Junaid Haider, Shabbir Ahmad. (2021). Potential applications of hydrophobically modified inulin as an active ingredient in functional foods and drugs - A review. Carbohydrate Polymers, 252 doi:10.1016/j.carbpol.2020.117176, **@2021** Линк **1.000**

2010

189. **Milchev, A**. Spherical polymer brushes under good solvent conditions: Molecular dynamics results compared to density functional theory. 2010

Цитира се в:

488. Biagi, S., Rovigatti, L., Abbasi, M., Bureau, L., Sciortino, F., Misbah, C. "Hydrodynamic instability and flow reduction in polymer brush coated channels". Soft Matter, 17 (40), pp. 9235-9245, 2021, **@2021** Линк **1.000**

489. Borówko, M., Staszewski, T. "Adsorption on ligand-tethered nanoparticles". International Journal of Molecular Sciences, 22 (16), art. no. 8810, 2021, **@2021** Линк **1.000**

490. Chang, Y.-Y., Yu, H.-Y. "Structural and Dynamical Coupling in Solvent-Free Polymer Brushes Elucidated by Molecular Dynamics Simulations". Langmuir, 37 (11), pp. 3331-3345, 2021, **@2021** Линк **1.000**

491. Lakkas, A.T., Sgouros, A.P., Revelas, C.J., Theodorou, D.N. "Structure and thermodynamics of grafted silica/polystyrene dilute nanocomposites investigated through self-consistent field theory". Soft Matter, 17 (15), pp. 4077-4097, 2021, **@2021** Линк **1.000**

492. Revelas, C.J., Sgouros, A.P., Lakkas, A.T., Theodorou, D.N. "Russel: A self-consistent field theory code for inhomogeneous polymer interphases". Computation, 9 (5), art. no. 57, 2021, **@2021** Линк **1.000**

493. Sgouros, A.P., Revelas, C.J., Lakkas, A.T., Theodorou, D.N. "Potential of mean force between bare or grafted silica/polystyrene surfaces from self-consistent field theory". Polymers, 13 (8), art. no. 1197, 2021, **@2021** Линк **1.000**

494. Sorkin, V., Pei, Q.X., Liu, P., Thitsartarn, W., He, C.B., Zhang, Y.W. "Atomistic-scale analysis of the deformation and failure of polypropylene composites reinforced by functionalized silica nanoparticles". Scientific Reports, 11 (1), art. no. 23108, 2021, **@2021** Линк **1.000**

495. Willinger, M., Reimhult, E. "Thermoresponsive Nanoparticles with Cyclic-Polymer-Grafted Shells Are More Stable than with Linear-Polymer-Grafted Shells: Effect of Polymer Topology, Molecular Weight, and Core Size". Journal of Physical Chemistry B, 125 (25), pp. 7009-7023, 2021, **@2021** Линк **1.000**

190. **Valova, E**, **Georgieva, J**, **Armyanov, S**, Sotiropoulos, S, Hubin, A, Baert, K, Raes, M. Morphology, structure and photo-electro-catalytic activity of TiO2/WO3 coatings obtained by pulsed electrodeposition onto stainless steel. ECS Transactions, 25, 27, Electrochemical Society Inc, 2010, ISSN:19385862, DOI:10.1149/1.3318500, 13-24. SJR:0.242

Цитира се в:

496. El Mouchtari, E.M., Bahsis, L., El Mersly, L. Anane, H., Lebarillier S., Piram A., Briche S., Wong-Wah-Chung P., Rafqah S., “Insights in the Aqueous and Adsorbed Photocatalytic Degradation of Carbamazepine by a Biosourced Composite: Kinetics, Mechanisms and DFT Calculations”, Int J Environ Res, 15, 135–147 (2021), **@2021** Линк **1.000**

497. Hirata S., Inoue A., Inada M., Hojo J., “Synthesis and adsorption-photodecomposition properties of mesoporous SiO2¬TiO2/WO3 composite”, J. Ceramic Society of Japan, 129, (7) 464-469 (2021), **@2021** Линк **1.000**

191. Ivanov, S., Lange, U., **Tsakova, V.**, Mirsky, V.M.. Electrocatalytically active nanocomposite from palladium nanoparticles and polyaniline: Oxidation of hydrazine. "Sensors and Actuators, B: Chemical?, 150, 1, 2010, ISSN:9254005, DOI:10.1016/j.snb.2010.07.004, 271-278

Цитира се в:

498. Alsaiari, M., Yonus, A.R., Rehman, A., Rahim, A., Muhammad, N., "An electrochemical sensing platform of cobalt oxide@SiO2/C mesoporous composite for the selective determination of hydrazine in environmental samples", Microchem. J. 165, 106171, 2021, **@2021** **1.000**

499. John, A., Benny, L., Cherian, A.R., Narahari, S.I., Varghese, A., Hedge, G., " Electrochemical sensors using conducting polymer/noble metal nanoparticle nanocomposites for the detection of various analytes: a review", J. Nanostructure Chem. 11 , 1-31, 2021, **@2021** **1.000**

500. Kaur, G., Kaur, A., Kaur, H., " Review on nanomaterials/conducting polymer based nanocomposites for the development of biosensors and electrochemical sensors", Polymer-Plastics Technology and Materials, 2020, Taylor & Francis, 60 (5), 502-519, 2021, **@2021** **1.000**

501. Subhan, M.A., Saha, P.Ch., Rahaman Akand, M.A., Rahman, M.M., "Highly sensitive and efficient hydrazine sensor probe development based on MoO3/CuO/ZnO ternary mixed metal oxide nano-composites for sustainable environment", Electrochem. Sci. Adv. , 2021, **@2021** Линк **1.000**

502. Symillidis, A., "Ethanol electro-oxidation at M/Pd/GC, Pd/PANI/GC and Pd/PANI fibrous electrodes in alkaline medium for direct ethanol fuel cells"., Loughborough University, **@2021** Линк **1.000**

192. **Milchev, A.**, Dimitrov, D.I., Binder, K.. Polymer brushes with nanoinclusions under shear: A molecular dynamics investigation. Biomicrofluidics, 4, 3, 2010, ISSN:19321058, DOI:10.1063/1.3396446

Цитира се в:

503. Mensink, L.I.S., de Beer, S., Snoeijer, J.H. "The role of entropy in wetting of polymer brushes". Soft Matter 17(5), pp. 1368-1375, 2021, **@2021** Линк **1.000**

193. **Khristov, K.**, Czarnecki, J.. Emulsion films stabilized by natural and polymeric surfactants. Current Opinion in Colloid and Interface Science, 15, 5, 2010, ISSN:13590294, DOI:10.1016/j.cocis.2010.05.012, 324-329

Цитира се в:

504. Zhai Zh., Ye Sh., Yan X., Song Zh., Shang Sh., Rao X., Ultra-stable soybean oil-in-water emulsions stabilized by a polymeric surfactant derived from soybean oil, Industrial Crops and Products, Vol 160, 113093, 2021, **@2021** **1.000**

194. **Georgieva, J.**, **Armyanov, S.**, Poulios, I., Jannakoudakis, A.D., Sotiropoulos, S.. Gas phase photoelectrochemistry in a polymer electrolyte cell with a titanium dioxide/carbon/nafion photoanode. Electrochemical and Solid-State Letters, 13, 10, 2010, ISSN:10990062, DOI:10.1149/1.3465306, P11-P13

Цитира се в:

505. Van Hal M., Campos R., Lenaerts S., De Wael K., Verbruggen S.W., “Gas phase photofuel cell consisting of WO3- and TiO2-photoanodes and an air-exposed cathode for simultaneous air purification and electricity generation”, Appl. Catalysis B: Environ. 292, Art. # 120204 (2021), **@2021** Линк **1.000**

506. Zafeiropoulos G., Varadhan P., Johnson H., Kamphuis L., Pandiyan A., Kinge S., van de Sanden M. C. M., Tsampas M. N., “Rational Design of Photoelectrodes for the Fully Integrated Polymer Electrode Membrane–Photoelectrochemical Water-Splitting System: A Case Study of Bismuth Vanadate”, ACS Appl. Energy Mater., 4, 9600–9610 (2021), , **@2021** Линк **1.000**

195. **Milchev, A.**, Egorov, S.A., Binder, K.. Absorption/expulsion of oligomers and linear macromolecules in a polymer brush. Journal of Chemical Physics, 132, 18, 2010, ISSN:219606, DOI:10.1063/1.3414996

Цитира се в:

507. Borówko, M., Staszewski, T. "Adsorption on ligand-tethered nanoparticles". International Journal of Molecular Sciences 22(16), 8810, 2021, **@2021** Линк **1.000**

508. Egorov S.A., "Linear and Ring Polymer Brushes: A Density Functional Theory Study", Macromolecular Theory and Simulations, Macromolecular Theory and Simulations. doi.org/10.1002/mats.202100065, 2021, **@2021** **1.000**

509. Polanowski P., Sikorski A., "The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study", Soft Matter, 17(46), 10516-10526, 2021., **@2021** **1.000**

196. **Avramov, I.**, **Avramova, K.**, R?ssel, C.. Useful method to analyze data on overall transformation kinetics. Journal of Non-Crystalline Solids, 356, 23-24, 2010, ISSN:223093, DOI:10.1016/j.jnoncrysol.2010.03.004, 1201-1203. ISI IF:1.766

Цитира се в:

510. Rodriguez-Lopez, S and Pascual, M, "Sintering/Crystallization and Viscosity of Sealing Glass-Ceramics". CRYSTALS 11 (7) 2021, **@2021** Линк **1.000**

197. **Valova, E**, **Georgieva, J**, **Armyanov, S**, Avramova, I, Dille, J, Kubova, O, Delplancke-Ogletree, M.-P. Corrosion behavior of hybrid coatings: Electroless Ni-Cu-P and sputtered TiN. Surface and Coatings Technology, 204, 16-17, 2010, ISSN:2578972, DOI:10.1016/j.surfcoat.2010.02.035, 2775-2781. ISI IF:2.141

Цитира се в:

511. Chen B., Xie H., Shen L., Xu Y, Zhang M., Yu H., Li R., Lin H., “Electroless Ni–Sn–P plating to fabricate nickel alloy coated polypropylene membrane with enhanced performance”, J. Membrane Science, 640, 119820 (2021), **@2021** Линк **1.000**

198. **D. Tatchev**, **Ts. Vassilev**, G. Goerigk, **S. Armyanov**, R. Kranold. Kinetics of primary crystallization of hypoeutectic amorphous Ni–P alloy studied by in situ ASAXS and DSC. Journal of Non-Crystalline Solids, 356, 6-8, Elsevier, 2010, ISSN:0022-3093, DOI:DOI: 10.1016/j.jnoncrysol.2009.11.039, 351-357. ISI IF:1.766

Цитира се в:

512. Han P., Zhang Z., Tan J., Zhang X., Xu Y., Zhang H., Li W., "Observation of a Broadened Magnetocaloric Effect in Partially Crystallized Gd60Co40 Amorphous Alloy", Metals, 11, 1741 1-12 (2021), **@2021** Линк **1.000**

199. Papadimitriou, S, **Armyanov, S**, **Valova, E**, Hubin, A, Steenhaut, O, Pavlidou, E, Kokkinidis, G, Sotiropoulos, S. Methanol oxidation at Pt-Cu, Pt-Ni, and Pt-Co electrode coatings prepared by a galvanic replacement process. Journal of Physical Chemistry C, 114, 11, American Chemical Society, 2010, ISSN:19327447, DOI:10.1021/jp911568g, 5217-5223. ISI IF:4.524

Цитира се в:

513. Achari Innocent, "Synthesis and characterization of ultra-thin films of palladium, platinum, and their alloys on gold substrate and their comparative assessment as formic acid oxidation catalysts", PhD Thesis Binghamton University State University of New York, 10 May 2021, **@2021** **1.000**

514. Chiani E, Azizi S. N., Ghasemi S., "PdCu bimetallic nanoparticles decorated on ordered mesoporous silica (SBA-15) /MWCNTs assuperior electrocatalyst for hydrogen evolution reaction", Internat. J. Hydrogen Energy, 46, 25468-25485 (2021), **@2021** Линк **1.000**

515. Khan I. A., Badshah A., Shah F. U., Assiri M. A., Nadeem M.A., "Zinc-coordination polymer-derived porous carbon-supported stable PtM electrocatalysts for methanol oxidation reaction", ACS Omega, 6, 6780–6790 (2021), **@2021** Линк **1.000**

516. Lashkenari M. S., Ghasemi A. K., Ghorbani M., Rezae S., "Fabrication of RGO/PANI-supported Pt/Cu nanoparticles as robust electrocatalyst for alkaline methanol electrooxidation", J. Materials Sci.: Materials in Electronics, 32, 4833–4845 (2021), **@2021** Линк **1.000**

517. Lashkenari, M.S., Rezaei, S., Fallah, J., "Experimental and theoretical studies of methanol oxidation in the presence of Co-Pd@polyaniline/N-doped reduced graphene oxide electrocatalyst, J Appl Electrochem, 51, 1267–1278 (2021)., **@2021** Линк **1.000**

518. Pérez-Hernández R., "Reactivity of Pt/Ni supported on CeO2-nanorods on methanol steam reforming for H2 production: Steady state and DRIFTS studies", Intern. J. Hydrogen Ener., 46, 25954-25964 (2021), **@2021** Линк **1.000**

519. Perez-Hernandez, R., "Reactivity of Pt/Ni supported on CeO2-nanorods on methanol steam reforming for H2 production: Steady state and DRIFTS studies", Intern. J. Hydrogen Ener., 46, 25954-25964 (2021), **@2021** Линк **1.000**

520. Sadek M., Abd El-Lateef H. M., Mohran H. S., Elrouby M., "A promising star-like PtNi and coral reefs-like PtCo Nano-Structured Materials for Direct Methanol Fuel Cell Application", Electrochim. Acta, 399, 139370 (2021), **@2021** Линк **1.000**

521. Traipop S., Yakoh A., Jampasa S., Chaiyo S., Boonyongmaneerat Y., Panpranot J., Praserthdam P., Chailapakul1 O., "Sequential electrodeposition of Cu–Pt bimetallic nanocatalysts on boron-doped diamond electrodes for the simple and rapid detection of methanol", Scientific Reports, 11, 14354 (2021), **@2021** Линк **1.000**

522. Wang Z., Mai Y., Yang Y., Shen L., Yan C., "Highly Ordered Pt-Based Nanoparticles Directed by the Self-Assembly of Block Copolymers for the Oxygen Reduction Reaction", ACS Appl. Mater. Interfaces, 13, 38138–38146 (2021), **@2021** Линк **1.000**

523. Zhang J., Yuan M., Zhao T., Wang W., Huang H., Cui K., Liu, Z. Li, S. Li Zhang G., "Cu-incorporated PtBi intermetallic nanofiber bundles enhance alcohol oxidation electrocatalysis with high CO tolerance", J. Mater. Chem. A, 9, 20676-20684 (2021), **@2021** Линк **1.000**

524. Zheng Y., Yang J., Lu X., Wang H., Dubale A. A., Li Y., Jin Z., Lou D., Sethi N. K., Ye Y., Zhou J., Sun Y., Zheng Z., Liu W., "Boosting both electrocatalytic activity and durability of metal aerogels via intrinsic hierarchical porosity and continuous conductive network backbone preservation", Adv. Eng. Materials, 11, 2002276 (2021), **@2021** Линк **1.000**

200. Kasyutich, O., Ilari, A., Fiohllo, A., **Tatchev, D.**, Hoell, A., Ceci, P.. 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, 10, 2010, ISSN:27863, DOI:10.1021/ja910918b, 3621-3627

Цитира се в:

525. Dhanker, R., Hussain, T., Tyagi, P., Singh, K.J., Kamble, S.S. "The Emerging Trend of Bio-Engineering Approaches for Microbial Nanomaterial Synthesis and Its Applications" (2021) Frontiers in Microbiology, 12, art. no. 638003, **@2021** Линк **1.000**

526. Gruzinov, A.Y., Schroer, M.A., Manalastas-Cantos, K., Kikhney, A.G., Hajizadeh, N.R., Schulz, F., Franke, D., Svergun, D.I., Blanchet, C.E. "Anomalous SAXS at P12 beamline EMBL Hamburg: Instrumentation and applications" (2021) Journal of Synchrotron Radiation, 28, pp. 812-823, **@2021** Линк **1.000**

527. Miao, X., Yue, H., Ho, S.L., Cha, H., Marasini, S., Ghazanfari, A., Ahmad, M.Y., Liu, S., Tegafaw, T., Chae, K.-S., Chang, Y., Lee, G.H. "Synthesis, Biocompatibility, and Relaxometric Properties of Heavily Loaded Apoferritin with D-Glucuronic Acid-Coated Ultrasmall Gd2O3 Nanoparticles" (2021) BioNanoScience, 11 (2), pp. 380-389, **@2021** Линк **1.000**

528. Moglia, I., Santiago, M., Guerrero, S., Soler, M., Olivera-Nappa, A., Kogan, M.J. "Enhanced cellular uptake of H-chain human ferritin containing gold nanoparticles" (2021) Pharmaceutics, 13 (11), art. no. 1966, **@2021** Линк **1.000**

529. Zhang, Q., Zhang, J., Song, J., Liu, Y., Ren, X., Zhao, Y. "Protein-Based Nanomedicine for Therapeutic Benefits of Cancer" (2021) ACS Nano, 15 (5), pp. 8001-8038, **@2021** Линк **1.000**

201. Boiadjieva, Tz., **Monev, M.**, Kronberger, H., Tomandl, A., Petrov, K., Angerer, P.. Effect of PEG 400 on Zn-Cr alloy electrodeposition. Journal of the Electrochemical Society, 157, 3, 2010, ISSN:134651, DOI:10.1149/1.3276678, D159-D167

Цитира се в:

530. Osuchowska, E., Buczko, Z., Olkowicz, K., "Zn-Cr Alloy Coatings: Electrodeposition and Properties", Journal of KONBiN, Warsaw, 51(1), 29-42, **1.000**

2021, **@2021** Линк

531. Wu, Y., Zhu, Z., Shen, D., Chen, L., Song, T., Kang, T., "Electrolyte Engineering Enables Stable Zn-Ion Deposition for Long-Cycling Life Aqueous Zn-ion Batteries", Energy Storage Materials, November 2021, **@2021** Линк **1.000**

202. **Tatchev, D.**. Multiphase approximation for small-angle scattering. Journal of Applied Crystallography, 43, 1, 2010, ISSN:218898, DOI:10.1107/S0021889809048675, 8-11

Цитира се в:

532. Collins, B.A., Gann, E. "Resonant soft X-ray scattering in polymer science" (2021) Journal of Polymer Science, Article in Press, **@2021** Линк **1.000**

203. **Gotchev, G.**, Kolarov, T., **Khristov, Khr.**, **Exerowa, D.**. On the origin of electrostatic and steric repulsion in oil-in-water emulsion films from PEO-PPO-PEO triblock copolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 354, 3-Jan, 2010, ISSN:9277757, DOI:10.1016/j.colsurfa.2009.07.045, 56-60. ISI IF:2.714

Цитира се в:

533. Franckea, N. M., & Bunjes, H. (2021). Drug localization and its effect on the physical stability of poloxamer 188-stabilized colloidal lipid emulsions. International Journal of Pharmaceutics, 599 doi:10.1016/j.ijpharm.2021.120394, **@2021** Линк **1.000**

204. **Karamanov, A.**, Georgieva, I., Pascova, R., Avramov, I.. Pore formation in glass-ceramics: Influence of the stress energy distribution. Journal of Non-Crystalline Solids, 356, 2, Elsevier, 2010, ISSN:223093, DOI:10.1016/j.jnoncrysol.2009.10.004, 117-119. SJR (Scopus):0.753, JCR-IF (Web of Science):1.766

Цитира се в:

534. Hou, Y., Wang, Y., Zhang, G. H., & Chou, K. C. (2021). Preparation of fully dense and magnetically controllable CaO-Al2O3-SiO2-Na2O-Fe3O4 glass ceramics by hot pressing. Journal of the European Ceramic Society, 41(10), 5201-5213., **@2021** **1.000**

205. Cherneva, S., Yordanov, M., **Stoychev, D.**, Iankov, R.. Experimental-numerical approach for characterization of mechanical properties of thin electrochemically deposited chromium and copper films. Solid State Phenomena, 159, Trans Tech Publications Ltd, 2010, ISBN:3908451779; 97839084, ISSN:10120394, DOI:10.4028/www.scientific.net/SSP.159.157, 157-162

Цитира се в:

535. CORRELATION AND REGRESSION RELATIONSHIPS BETWEEN THE COMPOSITION AND THE PHYSICO-CHEMICAL CHARACTERISTICS OF CERAMIC MATERIALS (BRICKS), PRODUCED WITH THE PARTICIPATION OF BULGARIAN LIGNITE ASH FROM TPP Nikolay Angelov ENEV Announcements of Union of scientists in Bulgaria -branch Sliven Volume 35 (1), 2020, ISSN: 1311 2864, , **@2021** **1.000**

206. Ghosh, A., Dimitrov, DI, Rostiashvili, VG, **Milchev, A.**, Vilgis, TA. Thermal breakage and self-healing of a polymer chain under tensile stress. The Journal of chemical physics, 132, 20, 2010, DOI:10.1063/1.3427245, 204902. ISI IF:3.017

Цитира се в:

536. He, J., Song, F., Li, X., Chen, L., Gong, X., Tu, W. "A novel kind of room temperature self-healing poly(urethane-urea) with robust mechanical strength based on aromatic disulfide". Journal of Polymer Research, 28 (4), art. no. 122, 2021, **@2021** Линк **1.000**

537. Raos, G., Zappone, B. "Polymer Adhesion: Seeking New Solutions for an Old Problem". Macromolecules, 54 (23), pp. 10617-10644, 2021, **@2021** Линк **1.000**

2011

207. **Gochev, G.**, **Petkova, H.**, Kolarov, T., **Khristov, K.**, Levecke, B., Tadros, T., Exerowa, D.. Effect of the degree of grafting in hydrophobically modified inulin polymeric surfactants on the steric forces in foam and oil-in-water emulsion films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 391, 3-Jan, 2011, ISSN:9277757, DOI:10.1016/j.colsurfa.2011.08.010, 101-104. JCR-IF (Web of Science):2.852

Цитира се в:

538. Muhammad Usman, Chengnan Zhang, Prasanna Jagannath Patil, Arshad Mehmood, Xiuting Li, Muhammad Bilal, Junaid Haider, Shabbir Ahmad. (2021). Potential applications of hydrophobically modified inulin as an active ingredient in functional foods and drugs - A review. Carbohydrate Polymers, 252 doi:10.1016/j.carbpol.2020.117176, **@2021** Линк **1.000**

208. **Gotchev, G.**, Kolarov, T., **Khristov, K.**, Exerowa, D.. Electrostatic and steric interactions in oil-in-water emulsion films from Pluronic surfactants. Advances in Colloid and Interface Science, 168, 2-Jan, 2011, ISSN:18686, DOI:10.1016/j.cis.2011.05.001, 79-84. JCR-IF (Web of Science):7.776

Цитира се в:

539. Hoffman, D. J., Fica-Contreras, S. M., Pan, J., & Fayer, M. D. (2021). Distinguishing steric and electrostatic molecular probe orientational ordering via their effects on reorientation-induced spectral diffusion. Journal of Chemical Physics, 154(24) doi:10.1063/5.0053308, **@2021** Линк **1.000**

209. **Milchev, A**. Fractional Brownian motion approach to polymer translocation: The governing equation of motion. 2011

Цитира се в:

540. Sadhu, T., Wiese, K.J. "Functionals of fractional Brownian motion and the three arcsine laws". Physical Review E 104(5), 054112, 2021, **@2021** Линк **1.000**

210. Anic, M., Radić, N., Grbić, B., Dondur, V., Damjanović, L., **Stoychev, D.**, Stefanov, P.. Catalytic activity of Pt catalysts promoted by MnOx for n-hexane oxidation. Applied Catalysis B: Environmental, 107, 3-4, Elsevier, 2011, ISSN:9263373, DOI:10.1016/j.apcatb.2011.07.032, 327-332. SJR:2.088, ISI IF:7.435

Цитира се в:

541. Qi, L., Le, Y., Wang, C., Lei, R., Wu, T., Hierarchical nanostructures self-assembled from δ-MnO2ultrathin nanosheets and Mn3O4octahedrons for efficient room-temperature HCHO oxidation, New Journal of Chemistry 45(8), pp. 3960-3968 DOI: 10.1039/D0NJ05515H, **@2021** **1.000**

542. Wei, J., Feng, Y., Yu, Q., (...), Meng, X., Yuan, Y., Research progress of catalytic oxidation of typical VOCs in cooking oil fumes | [餐饮油烟中典型VOCs催化氧化研究进展], Huagong Jinzhan/Chemical Industry and Engineering Progress 40(10), pp. 5730-5746, **@2021** **1.000**

211. Binder, K., Kreer, T., **Milchev, A.**. Polymer brushes under flow and in other out-of-equilibrium conditions. Soft Matter, 7, 16, 2011, ISSN:1744683X, DOI:10.1039/c1sm05212h, 7159-7172

Цитира се в:

543. Chen, N., Davydovich, O., McConnell, C., Sidorenko, A., Moore, P.B. "Densely packed tethered polymer nanoislands: A simulation study". Polymers, 13 (15), art. no. 2570, 2021., **@2021** Линк **1.000**

544. ErbaÅy, A."Interactions between densely grafted molten polymer brushes: Scaling theories versus molecular simulations". Turkish Journal of Physics, 45 (1), pp. 1-12, 2021, **@2021** Линк **1.000**

545. Fleischmann, D., Maslanka Figueroa, S., Goepferich, A. "Steric Shielding of cRGD-Functionalized Nanoparticles from Premature Exposition to Off-Target Endothelial Cells under a Physiological Flow". ACS Applied Bio Materials, 4 (1), pp. 640-650, 2021, **@2021** Линк **1.000**

546. Huang, J.-H., Sun, D.-D., Lu, R.-X. "Glass transition and dynamics of semiflexible polymer brushes". Physical Chemistry Chemical Physics, 23 (25), pp. 13895-13904, 2021, **@2021** Линк **1.000**

547. Saleki, O., Moosavi, A., Hannani, S.K. "Friction reduction in a nanochannel with grafted poly(N-isopropylacrylamide) oligomers: A molecular dynamics study". Physics of Fluids, 33 (5), art. no. 052004, 2021, **@2021** Линк **1.000**

548. Santo, K.P., Neimark, A.V. "Dissipative particle dynamics simulations in colloid and Interface science: a review". Advances in Colloid and Interface Science, 298, art. no. 102545, 2021, **@2021** Линк **1.000**

212. Tegou, A, Papadimitriou, S, Mintsouli, I, **Armyanov, S**, **Valova, E**, Kokkinidis, G, Sotiropoulos, S. Rotating disc electrode studies of borohydride oxidation at Pt and bimetallic Pt-Ni and Pt-Co electrodes. Catalysis Today, 170, 1, 2011, ISSN:9205861, DOI:10.1016/j.cattod.2011.01.003, 126-133. ISI IF:3.407

Цитира се в:

549. A. ElSheikh A. M., Backović G., Oliveira R. C. P., Sequeira C. A. C., McGregor J., Šljukić B., Santos D.M. F., "Carbon-Supported Trimetallic Catalysts (PdAuNi/C) for Borohydride Oxidation Reaction", Nanomaterials, 11, 1441 (2021), **@2021** Линк **1.000**

550. Balciunaite A., Zabielaite A., Upskuviene D., Tamašauskaite-Tamašiunaite L., Stalnioniene I., Naruškevicius L., Vaiciuniene J., Selskis A., Juškenas R., Norkus E, "Platinum Nanoparticles Modified Copper/Titanium Electrodes as Electrocatalysts for Borohydride Oxidation", Materials, 14, 7663 (2021), **@2021** Линк **1.000**

551. Milikić J., Martins M., Dobrota A. S., Bozkurt G., Soylu G. S. P., Yurtcan A. B., Skorodumova N. V., Paštia I. A., Šljukić B., Santos D. M.F., "A Pt/MnV2O6 nanocomposite for the borohydride oxidation reaction", J. Energy Chemistry, 55, 428-436 (2021), **@2021** Линк **1.000**

552. Uzundurukan A., Akça E.S., Budak Y., Devrim Y., "Carbon nanotube-graphenesupported bimetallic electrocatalyst for direct borohydride hydrogen peroxide fuel cells", Renewable Energy, 172, 1351-1364 (2021), **@2021** Линк **1.000**

553. Zore U.K., Yedire S.G., Pandi N., Manickam S., Sonawane S.H., "A review on recent advances in hydrogen energy, fuel cell, biofuel and fuel refining via ultrasound process intensification", Ultrasonics Sonochemistry, 73, 105536 (2021), **@2021** Линк **1.000**

213. Reith, D., **Milchev, A.**, Virnau, P., Binder, K.. Anomalous structure and scaling of ring polymer brushes. EPL, 95, 2, 2011, ISSN:2955075, DOI:10.1209/0295-5075/95/28003

Цитира се в:

554. Egorov, S.A. "Linear and Ring Polymer Brushes: A Density Functional Theory Study" Macromolecular Theory and Simulations, 2021, **@2021** Линк **1.000**

555. Polanowski, P., Sikorski, A. "The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study". Soft Matter, 17 (46), pp. 10516-10526, 2021, **@2021** Линк **1.000**

556. Solano Canchaya, J.G., Clavier, G., Garruchet, S., Latour, B., Martzel, N., Devémy, J., Goujon, F., Dequidt, A., Blaak, R., Munch, E., Malfreyt, P. "Rheological properties of polymer chains at a copper oxide surface: Impact of the chain length, surface coverage, and grafted polymer shape". Physical Review E, 104 (2), art. no. 024501, 2021, **@2021** Линк **1.000**

214. **Avdeev, G.V.**, Milenov, T.I., Egorysheva, A.V., Petrov, K.P., Skorikov, V.M., Titorenkova, R.Kh., Rafailov, P.M.. Crystal structure of Bi 36MgP 2O 60-?. Russian Journal of Inorganic Chemistry, 56, 6, 2011, ISSN:360236, DOI:10.1134/S0036023611060027, 913-918

Цитира се в:

557. Ao, L., Li, J., Tang, Y., Fang, W., Liu, L., Sun, Y., Fang, L., Structure, far-infrared reflectance spectra, and microwave dielectric properties of Ba2MGa11O20 (M = Bi, La) ceramics, (2021) Ceramics International, 47 (9), pp. 11899-11905. Cited 2 times., **@2021** Линк **1.000**

215. **Karamanova, E.**, **Avdeev, G.**, **Karamanov, A.**. Ceramics from blast furnace slag, kaolin and quartz. Journal of the European Ceramic Society, 31, 6, 2011, ISSN:9552219, DOI:10.1016/j.jeurceramsoc.2011.01.006, 989-998. SJR:0.8, ISI IF:3

Цитира се в:

558. Abass, M., Kanda, Y., Ceramics based on concrete wastes prepared by spark plasma sintering, (2021) Processing and Application of Ceramics, 15 (1), pp. 100-109., **@2021** Линк **1.000**

559. Ceylan, İ., Gökdemir, H., Cengiz, T., Çiçek, B., Development of CaO-rich blast furnace slag containing fluorine mica-based glass ceramic coatings, (2021) Ceramics International, 47 (21), pp. 29988-29994., **@2021** Линк **1.000**

560. Fang, W., Hou, L., Li, Y., Foaming mechanism of SiC in steel slag foamed ceramics (2021) ISIJ International, 61 (3), pp. 1043-1052., **@2021** Линк **1.000**

561. Feng, Y.-H., Zhang, Z., Gao, J., Feng, G.-P., Qiu, L., Feng, D.-L., Zhang, X.-X., Zhu, X., Research status of centrifugal granulation, physical heat recovery and resource utilization of blast furnace slags, (2021) Journal of Analytical and Applied Pyrolysis, 157, art. no. 105220., **@2021** Линк **1.000**

562. Li, C.H., Zhao, W., Zhang, J.L., Lu, W., Li, P., Yan, B.J., Guo, H.W., Preparation and characterization of glass-ceramics with α-cordierite as the main crystalline phase from bluestone tailings, (2021) Journal of Ceramic Processing Research, 22 (4), pp. 409-420., **@2021** Линк **1.000**

563. Li, F., Liu, L., Yang, Z., Li, S., Physical and mechanical properties and micro characteristics of fly ash-based geopolymer paste incorporated with waste Granulated Blast Furnace Slag (GBFS) and functionalized Multi-Walled Carbon Nanotubes (MWCNTs), (2021) Journal of Hazardous Materials, 401, art. no. 123339., **@2021** Линк **1.000**

564. López-Perales, J.F., Contreras, J.E., Vázquez-Rodríguez, F.J., Gómez-Rodríguez, C., Díaz-Tato, L., Banda-Muñoz, F., Rodríguez, E.A., Partial replacement of a traditional raw material by blast furnace slag in developing a sustainable conventional refractory castable of improved physical-mechanical properties, (2021) Journal of Cleaner Production, 306, art. no. 127266, . Cited 3 times., **@2021** Линк **1.000**

565. Teo, P.T., Zakaria, S.K., Sharif, N.M., Seman, A.A., Taib, M.A.A., Mohamed, J.J., Yusoff, M., Yusoff, A.H., Mohamad, M., Ali, A., Masri, M.N., Application of general full factorial statistical experimental design's approach for the development of sustainable clay-based ceramics incorporated with malaysia's electric arc furnace steel slag waste, (2021) Crystals, 11 (4), art. no. 442., **@2021** Линк **1.000**

566. Zakaria, S.K., Rahman, N.I.N.A., Salleh, S.Z., Sharif, N.M., Seman, A.A., Taib, M.A.A., Mohamed, J.J., Yusoff, M., Yusoff, A.H., Mohamad, M., Masri, M.N., Ali, A., Teo, P.T., Preliminary assessment of recycling Malaysia's electric arc furnace (EAF) steel slag waste as one of raw materials for geopolymer ceramic product, (2021) Journal of Ceramic Processing Research, 22 (3), pp. 333-339., **@2021** Линк **1.000**

216. Valov, I., **Guergova, D.**, **Stoychev, D.**. A study of the kinetics of the electrochemical deposition of Ce 3+/Ce4+ oxides. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, ISBN:9.7894E+12, ISSN:18746500, DOI:10.1007/978-94-007-0903-4-17, 167-172

Цитира се в:

567. Kalinina, E., Pikalova, E., Opportunities, challenges and prospects for electrodeposition of thin-film functional layers in solid oxide fuel cell technology Open Access, Materials 14(19), 5584 https://doi.org/10.3390/ma14195584, **@2021** **1.000**

217. **Lyutov, V.**, **Tsakova, V.**, Bund, A.. Microgravimetric study on the formation and redox behavior of poly(2-acrylamido-2-methyl-1-propanesulfonate)-doped thin polyaniline layers. Electrochimica Acta, 56, 13, 2011, ISSN:134686, DOI:10.1016/j.electacta.2011.03.079, 4803-4811

Цитира се в:

568. Уразов, К.А., Грибкова, О.Л., Тамеев, А.Р., Рахимова, А.К., "Влияние состава комплекса полианилина на фотоэлектрохимические свойства тонких пленок CZTSE", Доклады НАН РК 5 , 189-195, 2021, **@2021** **1.000**

218. **Guergova, D.**, **Stoyanova, E.**, **Stoychev, D.**, Avramova, I., Atanasova, G., Stefanov, P.. Corrosion stability of stainless steel, modified electrochemically with Ce 2O 3-CeO 2 films, in 3.5% NaCl media. Bulgarian Chemical Communications, 43, 1, 2011, ISSN:8619808, 150-157. ISI IF:0.349

Цитира се в:

569. An, H., Xu, Z., Meng, G., (...), Wang, J., Wang, F., High corrosion resistance film on rebar by cerium modification, Journal of Materials Science and Technology 64, pp. 73-84, **@2021** **1.000**

219. **Stoyanova, A.**, Ivanov, S., **Tsakova, V.**, Bund, A.. Au nanoparticle-polyaniline nanocomposite layers obtained through layer-by-layer adsorption for the simultaneous determination of dopamine and uric acid. Electrochimica Acta, 56, 10, 2011, ISSN:134686, DOI:10.1016/j.electacta.2010.09.054, 3693-3699. ISI IF:4.504

Цитира се в:

570. John, A., Benny, L., Cherian, A.R., Narahari, S.I., Varghese, A., Hedge, G., "Electrochemical sensors using conducting polymer/noble metal nanoparticle nanocomposites for the detection of various analytes: a review", J. Nanostructure Chem. 11, 1-31, 2021, **@2021** **1.000**

571. Mahalakshmi, S., Srivedi, V., "In Situ Electrodeposited Gold Nanoparticles on Polyaniline-Modified Electrode Surface for the Detection of Dopamine in Presence of Ascorbic Acid and Uric Acid", Electrocatalysis, 12, 415-435, 2021, **@2021** **1.000**

572. Morali, U., " Investigation of Simultaneous Influences of Significant Charging Factors on Lithium-Ion Batteries and Identifying Interaction Effects", Energy Technology, 9, 2001078, 2021, **@2021** **1.000**

573. Panapimonlawat, T., Phanichphant, S., Srivichai, S., " Electrochemical Dopamine Biosensor Based on Poly(3-aminobenzylamine) Layer-by-Layer Self-Assembled Multilayer Thin Film", Polymers 13 (9), 1488, 2021, **@2021** **1.000**

574. Pandian, P., Kalimuthu, R., Arumigam, S., Kannaiyan, P., "Solid phase mechanochemical synthesis of Poly(o-anisidine) protected Silver nanoparticles for electrochemical dopamine sensor", Mat. Today Commun. 26, 102191, 2021, **@2021** **1.000**

220. **Petrova, M.**, Noncheva, Z., Dobreva, Ek.. Electroless deposition of diamond powder dispersed nickel-phosphorus coatings on steel substrate. Transactions of the Institute of Metal Finishing, 89, 2, 2011, ISSN:202967, DOI:10.1179/174591911X12971865404438, 89-94

Цитира се в:

575. Ma, L., Chen, Y., Renner, P., (...), Fang, A., Liang, H., „Synthesis and morphological characterization of electroless- deposited Ni-P coatings on diamond abrasives“, Lubricants 9(2), 20, (2021), pp. 1-22, **@2021** **1.000**

576. Xiang, C., Zhang, F., Wang, J., Tang, H., „Effect of particle size of nano-diamond on wear and corrosion resistance of electroless Ni-P composite coatings | [纳米金刚石粒径对Ni-P化学复合镀层耐磨性和耐腐蚀性的影响]“, Jingangshi yu Moliao Moju Gongcheng/Diamond and Abrasives Engineering 41(5), (2021), pp. 14-20, **@2021** **1.000**

221. **Tatchev, D.**, Hoell, A., Eichelbaum, M., Rademann, K.. X-ray-assisted formation of gold nanoparticles in soda lime silicate glass: Suppressed Ostwald ripening. Physical Review Letters, 106, 8, 2011, ISSN:319007, DOI:10.1103/PhysRevLett.106.085702

Цитира се в:

577. Bras, W., Myles, D.A.A., Felici, R. "When x-rays alter the course of your experiments" (2021) Journal of Physics Condensed Matter, 33 (42), art. no. 423002, **@2021** Линк **1.000**

578. Gruzinov, A.Y., Schroer, M.A., Manalastas-Cantos, K., Kikhney, A.G., Hajizadeh, N.R., Schulz, F., Franke, D., Svergun, D.I., Blanchet, C.E. "Anomalous SAXS at P12 beamline EMBL Hamburg: Instrumentation and applications" (2021) Journal of Synchrotron Radiation, 28, pp. 812-823., **@2021** Линк **1.000**

222. **Tsakova, V.**, Ivanov, S., Lange, U., **Stoyanova, A.**, **Lyutov, V.**, Mirsky, V.M.. Electroanalytical applications of nanocomposites from conducting polymers and metallic nanoparticles prepared by layer-by-layer deposition. Pure and Applied Chemistry, 83, 2, 2011, ISSN:334545, DOI:10.1351/PAC-CON-10-08-01, 345-358. ISI IF:3.386

Цитира се в:

579. John, A., Benny, L., Cherian, A.R., Narahari, S.Y., Varghese, A., Hegde, G., "Electrochemical sensors using conducting polymer/noble metal nanoparticle nanocomposites for the detection of various analytes: a review", J. Nanostructure in Chemistry 11, 1–31, 2021, **@2021** **1.000**

223. **Nanev, C.N.**, **Dimitrov, I.L.**, **Hodzhaoglu, F.V.**. Growth of rhombohedral insulin crystals and in vitro modeling of their dissolution in the blood stream. Crystal Research and Technology, 46, 2, 2011, ISSN:2321300, DOI:10.1002/crat.201000381, 119-126

Цитира се в:

580. Link, Frederik, Heng, Jerry. "Enhancing the crystallisation of insulin using amino acids as soft-templates to control nucleation". CrystEngComm 23, 2021, 3951-3960, **@2021** **1.000**

224. **Georgieva, J.**, Sotiropoulos, S., **Armyanov, S.**, Philippidis, N., Poulios, I.. 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, ISSN:0021891X, DOI:10.1007/s10800-010-0221-8, 173-181

Цитира се в:

581. Roselló-Márquez G., Fernández-Domene R. M., Sánchez-Tovar R., Cifre-Herrando M., García-Antón J., “Degradation of Diazinon based on photoelectrocatalytic technique usingenhanced WO3 nanostructures: mechanism and pathway”, J. Environmental Chem. Engin., 9, 105371 (2021), **@2021** Линк **1.000**

225. **Nanev, C.N.**, **Hodzhaoglu, F.V.**, **Dimitrov, I.L.**. Kinetics of insulin crystal nucleation, energy barrier and nucleus size. Crystal Growth and Design, 11, 1, 2011, ISSN:15287483, DOI:10.1021/cg1011499, 196-202. SJR:1.249, ISI IF:4.891

Цитира се в:

582. Devos, Cedric , Van Gerven, Tom , Kuhn, Simon. "A Review of Experimental Methods for Nucleation Rate Determination in Large-Volume Batch and Microfluidic Crystallization". Cryst. Growth Des. 21, 2021, 2541–2565, **@2021** **1.000**

583. Link, Frederik, Heng, Jerry. "Enhancing the crystallisation of insulin using amino acids as soft-templates to control nucleation". CrystEngComm 23, 2021, 3951-3960, **@2021** **1.000**

584. Mishra, Rit, Goel, Gaurav. "A Multiscale Model for Quantitative Prediction of Insulin Aggregation Nucleation Kinetics". J. Chem. Theory Comput., 2021, doi: 10.1021/acs.jctc.1c00499, **@2021** **1.000**

585. Wang, Wei, Saperdi, Angelo, Dodero, Andrea, Castellano, Maila, Müller, Alejandro, Dong, Xia, Wang, Dujin, Cavallo, Dario. "Crystallization of a Self-Assembling Nucleator in Poly(l-lactide) Melt". Cryst. Growth Des. 21, 2021, 5880–5888, **@2021** **1.000**

226. 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. Journal of Non-Crystalline Solids, 357, 1, 2011, ISSN:223093, DOI:10.1016/j.jnoncrysol.2010.10.006, 10-17. SJR:0.7, ISI IF:2.4

Цитира се в:

586. Dal Poggetto, G., Catauro, M., Crescente, G., & Leonelli, C. (2021). Efficient Addition of Waste Glass in MK-Based Geopolymers: Microstructure, Antibacterial and Cytotoxicity Investigation. Polymers, 13(9), 1493., **@2021** **1.000**

587. Montoya-Quesada, E., Villaquirán-Caicedo, M. A., & de Gutiérrez, R. M. (2021). New glass-ceramic from ternary–quaternary mixtures based on Colombian industrial wastes: Blast furnace slag, cupper slag, fly ash and glass cullet. Boletín de la Sociedad Española de Cerámica y Vidrio., **@2021** **1.000**

588. Savić, V., Topalović, V., Matijašević, S., Nikolić, J., Grujić, S., Zildžović, S., & Radulović, A. (2021). Chemical durability of sintered glass-composite prepared from glass cullet and waste foundry sand. Metallurgical and Materials Engineering, 27(1), 105-115., **@2021** **1.000**

589. Zawada, A., Przerada, I., Lubas, M., Sitarz, M., & Leśniak, M. (2021). Application of Statistical Methods in Predicting the Properties of Glass-Ceramic Materials Obtained from Inorganic Solid Waste. Materials, 14(10), 2651., **@2021** **1.000**

227. Hubenova Y., **Rashkov R.**, **Buchvarov V.**, Babanova S., Mitov M.. Nanomodified NiFe- and NiFeP-carbon felt as anode electrocatalysts in yeast-biofuel cell.. Journal of Materials Science, 46, 22, 2011, ISSN:0022-2461, 7074-7081. ISI IF:2.371

Цитира се в:

590. Dmitriev D.S., Lobinsky A.A., Popkov V.I. "Morphology-dependent impedance and electrocatalytic activity of Ni-Co nanocoatings". Colloids and Surfaces A: Physicochemical and Engineering AspectsVolume 6265 October 2021 Article number 127007, **@2021** Линк **1.000**

591. Sayed E.T., Abdelkareem M.A., Alawadhi H., Elsaid K., Wilberforce T., Olabi A.G.."Graphitic carbon nitride/carbon brush composite as a novel anode for yeast-based microbial fuel cells". EnergyVolume 22115 April 2021 Article number 119849, **@2021** Линк **1.000**

592. Verma M., Mishra V.."Recent trends in upgrading the performance of yeast as electrode biocatalyst in microbial fuel cells".ChemosphereVolume 284December 2021 Article number 131383, **@2021** Линк **1.000**

228. Paturej, J., **Milchev, A.**, Rostiashvili, VG, Vilgis, TA. Polymer chain scission at constant tension"An example of force-induced collective behaviour". Europhysics Letters, 94, 4, 2011, DOI:10.1209/0295-5075/94/48003, 48003. ISI IF:2.095

Цитира се в:

593. Raos, G., Zappone, B. "Polymer Adhesion: Seeking New Solutions for an Old Problem #". Macromolecules 54(23), pp. 10617-10644, 2021, **@2021** Линк **1.000**

229. **Buchvarov V.D.**, **Rashkov R.S.**, **Arnaudova M.H.**, Hubenova Y.V., Mitov M.Y.. Improvement of yeast-biofuel cell output by electrode modifications. Industrial and Engineering Chemistry Research, 50, 2, 2011, ISSN:0888-5885, 557-564. ISI IF:2.587

Цитира се в:

594. Elabed A., Ezziat L., Ibnsouda S., Elabed S., Erable B.. "Bioelectrochemical Characterization of Heavy Metals Resistant yeast: Hansenula fabianii Isolated from Tannery Wastewater". International Journal of Electrochemical ScienceOpen AccessVolume 16, Issue 1, Pages 1 - 12January 2021, **@2021** Линк **1.000**

595. Hyun K., Kim S., Kwon Y.."Performance evaluations of yeast based microbial fuel cells improved by the optimization of dead zone inside carbon felt electrode". Korean Journal of Chemical EngineeringVolume 38, Issue 11, Pages 2347 - 2352November 2021, **@2021** Линк **1.000**

596. Ji J, Noh C., Chung Y., Kwon Y.."The effects of the interstitial pores of buckypaper in trapping cobalt phthalocyanine and their use in sugarcane-extract fuel cells". Journal of Materials Chemistry CVolume 9, Issue 41, Pages 14675 - 146827 November 2021, **@2021** Линк **1.000**

597. Rozene J., Morkvenaite-Vilkonciene I., Bruzaite I., Dzedzickis A., Ramanavicius A.."Yeast-based microbial biofuel cell mediated by 9, 10-phenantrenequinone". Electrochimica ActaVolume 37320 March 2021 Article number 137918, **@2021** Линк **1.000**

598. Rozene J., Morkvenaite-Vilkonciene I., Bruzaite I., Zinovicius A., Ramanavicius A."Baker's yeast-based microbial fuel cell mediated by 2-methyl-1, 4-naphthoquinone". MembranesOpen AccessVolume 11, Issue 3March 2021 Article number 182, **@2021** Линк **1.000**

599. Sayed E.T., Abdelkareem M.A., Alawadhi H., Elsaid K., Wilberforce T., Olabi A.G.."Graphitic carbon nitride/carbon brush composite as a novel anode for yeast-based microbial fuel cells". EnergyVolume 22115 April 2021 Article number 119849, **@2021** Линк **1.000**

600. Sedenho G.C., Modenez I., Mendes G.R., Crespilho F.N.."The role of extracellular polymeric substance matrix on Saccharomyces cerevisiae bioelectricity". Electrochimica ActaVolume 39310 October 2021 Article number 139080, **@2021** Линк **1.000**

601. Verma M., Mishra V.."Recent trends in upgrading the performance of yeast as electrode biocatalyst in microbial fuel cells". ChemosphereVolume 284December 2021 Article number 131383, **@2021** Линк **1.000**

230. **Milchev, A**. Single-polymer dynamics under constraints: scaling theory and computer experiment. 2011

Цитира се в:

602. Chen, J., Chen, X., Sun, L.-Z., Xu, X.-J., Luo, M.-B. "Translocation of a looped polymer threading through a nanopore". Soft Matter, 17 (16), pp. 4342-4351, 2021, **@2021** Линк **1.000**

603. Chen, X., Chen, J., Zhuo, B.-Y., Yang, X., Luo, M.-B. "Simulation study for the pulling translocation of a polymer globule". Polymer Journal, 53 (9), pp. 1047-1056, 2021, **@2021** Линк **1.000**

604. Ghosh, B., Sarabadani, J., Chaudhury, S., Ala-Nissila, T. "Pulling a folded polymer through a nanopore". Journal of Physics Condensed Matter, 33 (1), art. no. 015101, 2021, **@2021** Линк **1.000**

605. Hsiao, P.-Y., Chen, W.-Y. "A general theory of polymer ejection tested in a quasi two-dimensional space". Scientific Reports, 11 (1), art. no. 14721, 2021, **@2021** Линк **1.000**

606. Khalilian, H., Sarabadani, J., Ala-Nissila, T. "Polymer translocation through a nanopore assisted by an environment of active rods". Physical Review Research, 3 (1), art. no. 013080, 2021, **@2021** Линк **1.000**

607. Rusková, R., Račko, D. "Channels with helical modulation display stereospecific sensitivity for chiral superstructures". Polymers, 13 (21), art. no. 3726, **1.000**

2021, **@2021** Линк

608. Seth, S., Bhattacharya, A. "DNA barcodes using a double nanopore system". Scientific Reports, 11 (1), art. no. 9799, 2021., **@2021** Линк **1.000**

609. Sun, L.-Z., Cao, W.-P., Wang, C.-H., Xu, X. "The translocation dynamics of the polymer through a conical pore: Non-stuck, weak-stuck, and strong-stuck modes". Journal of Chemical Physics, 154 (5), art. no. 054903, 2021, **@2021** Линк **1.000**

231. Koleva D.A., **Boshkov N.**, Van Breugel K., De Wit J.H.W.. Steel corrosion resistance in model solutions, containing waste materials. Electrochimica Acta, 58, 2011, 628-646. ISI IF:4.086

Цитира се в:

610. Robineau, M., Sabot, R., Jeannin, M., Deydier, V., Crusset, D., & Refait, P. , "Mechanisms of localized corrosion of carbon steel associated with magnetite/mackinawite layers in a cement grout", Materials and Corrosion, 72, 1-2, 194-210., **@2021** Линк **1.000**

611. Shi, J., Li, M., Wu, M., Ming, J., "Role of red mud in natural passivation and chloride-induced depassivation of reinforcing steels in alkaline concrete pore solutions", Corrosion Science, 190, (2021), 109669., **@2021** Линк **1.000**

612. Vieira R.E., Mennucci M.M., Quarcioni V.A., De Melo H.G., "Corrosion evaluation of CA-50 steel in pore waters extracted from cement pastes with steel slags using electrochemical techniques", Revista Ibracon de Estruturas e Materials, 14, 2, (2021), **@2021** Линк **1.000**

232. Datcheva M., Cherneva S., Stoycheva M., Iankov R., **Stoychev, D.**. Determination of Anodized Aluminum Material Characteristics by Means of Nano-Indentation Measurements. Materials Sciences and Applications, 2, 10, 2011, ISSN:2153-117X, DOI:10.4236/msa.2011.210196, 1452-1464. ISI IF:0.83

Цитира се в:

613. Anestiev, Lubomir, et al. "Diffusion-alloying sintering of Cr–Mo pre-alloyed iron powders with carbon: The effect of the carbon introduction method on the sinter's properties." International Journal of Materials Research 112.1 (2021): 48-56 DOI: https://doi.org/10.1515/ijmr-2020-7741, **@2021** **1.000**

614. D. Teodosiev, A. Bouzekova – Penkova, K. Grigorov, R. Nedkov, G. Stanev, P. Tzvetkov, B. Tsyntsarski, A. Kosateva, S. Klimov, V. Grushin, „STRUCTURAL AND MECHANICAL PROPERTIES OF GLASS-CARBON COATINGS AFTER EXTENDED STAY ON THE INTERNATIONAL SPACE STATION (ISS)" , Comptes rendus de l'Académie bulgare des Sciences, Volume 74, Issue No2, 197-206, 2021 DOI:10.7546/CRABS.2021.02.05, **@2021** **1.000**

615. Fayed, S.M., Gao, P., Chen, D., (...), Wang, H., Sadawy, M.M., Corrosion inhibition characteristics of multilayer Si-DLC, phosphating and anodizing coatings deposited on 2024 Al alloy: A comparative study, Diamond and Related Materials 117, 108460 DOI: 10.1016/j.diamond.2021.108460, **@2021** **1.000**

616. Programming Techniques for Energy-Efficient Software April 2021 DOI: 10.1007/978-3-030-71616-5_15 In book: Advanced Computing in Industrial Mathematics Vesselin IossifovVesselin Iossifov, **@2021** **1.000**

233. Paturej, J., **Milchev, A.**, Rostiashvili, VG, Vilgis, TA. Thermal degradation of unstrained single polymer chain: Non-linear effects at work. The Journal of chemical physics, 134, 22, 2011, DOI:10.1063/1.3596744, 224901. ISI IF:3.017

Цитира се в:

617. Tchakoutio Nguetcho, A.S., Nkeumaleu, G.M., Bilbault, J.M. "Anharmonic effects on the dynamic behavior's of Klein Gordon model's". Applied Mathematics and Computation, 403, art. no. 126136, 2021, **@2021** Линк **1.000**

618. Tchouadji Ndjike, M.B., Tchakoutio Nguetcho, A.S., Li, J., Bilbault, J.M. "Interplay role between dipole interactions and hydrogen bonding on proton transfer dynamics". Nonlinear Dynamics, 105 (3), pp. 2619-2643, 2021, **@2021** Линк **1.000**

234. **Arabadzhieva, D.**, **Mileva, E.**, **Tchoukov, P.**, Miller, R., Ravera, F., Liggieri, L.. Adsorption layer properties and foam film drainage of aqueous solutions of tetraethyleneglycol monododecyl ether. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 392, 1, 2011, ISSN:9277757, DOI:10.1016/j.colsurfa.2011.09.061, 233-241. ISI IF:2.829

Цитира се в:

619. Kirtil Emrah "Investigation of surface properties of quince seed extract and assessment of its performance as a novel polymeric surfactant" PhD Thesis, Middle East Technical University, Turkey, **@2021** Линк **1.000**

620. Kirtil Emrah, Kurtkay Enis, Svitova Tatyana, Radke Clayton J., Oztop Mecit Halil, Sahin Serpil "Examination of interfacial properties of quince seed extract on a sunflower oil-water interface" Chemical Engineering Science, Volume 245, 2021, 116951 https://doi.org/10.1016/j.ces.2021.116951, **@2021** Линк **1.000**

235. **Mirkova, L.**, Pashova, V., **Monev, M.**. Study of hydrogen evolution reaction on Ni/Co 3O 4 composite electrode in alkaline solution. ECS Transactions, 35, 21, 2011, ISBN:9.78161E+12, ISSN:19385862, DOI:10.1149/1.3641467, 77-84

Цитира се в:

621. Navarrete, L., Yoo, C.-Y., Serra, J.M., "Comparative study of epoxy-CsH2PO4 composite electrolytes and porous metal based electrocatalysts for solid acid electrochemical cells", Membranes, 11(3), 196, 2021, **@2021** Линк **1.000**

2012

236. **Milchev A,**, Vilgis TA, Zidek J. Dynamic behavior of acrylic acid clusters as quasi-mobile nodes in a model of hydrogel network.. The Journal of Chemical

Physics, 37, 24, 2012, DOI:doi: 10.1063/1.4769833., 244908

Цитира се в:

622. Lei, J., Li, Z., Xu, S., Liu, Z. "Recent advances of hydrogel network models for studies on mechanical behaviors". Acta Mechanica Sinica/Lixue Xuebao 37(3), pp. 367-386, 2021, **@2021** Линк **1.000**

237. **Guergova, D.**, **Stoyanova, E.**, **Stoychev, D.**, Avramova, I., Stefanov, P.. Investigation of the inhibiting effect of cerium ions on the corrosion behavior of OC404 stainless steel in sulfuric acid medium. The Open Chemical Physics Journal, 4, 2012, DOI:10.2174/1874412501204010008, 8-17

Цитира се в:

623. Yin, Y., Schulz, M., Rohwerder, M., Optimizing smart self-healing coatings: Investigating the transport of active agents from the coating towards the defect Open Access, Corrosion Science 190, 109661 https://doi.org/10.1016/j.corsci.2021.109661, **@2021** **1.000**

238. **Stoyanova E.**, **Stoychev D.**. Corrosion behavior of stainless steels modified by cerium oxides layers. Corrosion resistance, Intech Publishers, 2012, ISBN:978-953-51-0467-4, DOI:10.5772/1844, 31, 239-270

Цитира се в:

624. Abdulaah Hiba A. , Al-Ghaban Ahmed M. and Anaee Rana A. , Deposition and characterization of Ca3Ce(PO4)3 phase in coating to protect stainless steel 316L, AIP Conference Proceedings 2372, 040004 (2021); https://doi.org/10.1063/5.0067094, **@2021** **1.000**

625. Abdullah Hiba A., Al-Ghaban Ahmed M. , Anaee Rana A., Deposition of CeO2/TCP Thin Film on Stainless Steel 316 L by RF sputtering, Engineering and Technology Journal, 2021, Volume 39, Issue 4A, Pages 625-631 doi:10.30684/etj.2021.168140, **@2021** **1.000**

626. Ibrahim, M.K., Hamzah, E. Effect of Ce and Sb Elements Addition on Porous Ti–23 wt%Nb–Sn for Biomedical Applications. Shape Memory and Superelasticity 7(4), pp. 515-525 (2021). https://doi.org/10.1007/s40830-021-00353-y, **@2021** **1.000**

627. Pancrecious, J.K., Vineetha, S.V., Bill, U.S., Gowd, E.B., Rajan, T.P.D., Ni-Al polyvanadate layered double hydroxide with nanoceria decoration for enhanced corrosion protection of aluminium alloy, Applied Clay Science 211, 106199, 2021 https://doi.org/10.1016/j.clay.2021.106199, **@2021** **1.000**

628. Rid¯ošic´, M.; Nikolic´, N.D.; Salicio-Paz, A.; García-Lecina, E.; Živkovi´c, L.S.; Bajat, J.B. Zn-Co-CeO2 vs. Zn-Co Coatings: Effect of CeO2 Sol in the Enhancement of the Corrosion Performance of Electrodeposited Composite Coatings. Metals 2021, 11, 704. https://doi.org/10.3390/met11050704, **@2021** **1.000**

629. Yang, S., Sun, R., Chen, K., Self-healing performance and corrosion resistance of phytic acid/cerium composite coating on microarc-oxidized magnesium alloy, Chemical Engineering Journal Volume 428, 131198 https://doi.org/10.1016/j.cej.2021.131198, **@2021** **1.000**

239. **Milchev, A.**, Binder, K.. Semiflexible polymers grafted to a solid planar substrate: Changing the structure from polymer brush to “polymer bristle”. The Journal of chemical physics, 136, 19, 2012, DOI:10.1063/1.4712138, 194901. ISI IF:3.017

Цитира се в:

630. Corsi P., Gonzalez Garcia A., Roma E., Gasperi T., Capone B., "Coarse graining and adsorption in bottlebrush-colloid mixtures", Soft Matter, 17(13), pp. 3681-3687, 2021., **@2021** **1.000**

631. Huang, J.-H., Sun, D.-D., Lu, R.-X. "Glass transition and dynamics of semiflexible polymer brushes". Physical Chemistry Chemical Physics, 23(25), pp. 13895-13904 , 2021, **@2021** Линк **1.000**

240. Jalili, K., Abbasi, F., **Milchev, A.**. Dynamic Compression of in Situ Grown Living Polymer Brush: Simulation and Experiment. Macromolecules, 45, 24, 2012, 9827-9840. ISI IF:5.8

Цитира се в:

632. Halagan, K., Banaszak, M., Jung, J., Polanowski, P., Sikorski, A. "Polymerization and structure of opposing polymer brushes studied by computer simulations". Polymers, 13 (24), art. no. 4294, 2021, **@2021** Линк **1.000**

633. Hałagan, K., Banaszak, M., Jung, J., Polanowski, P., Sikorski, A. "Dynamics of opposing polymer brushes: A computer simulation study". Polymers, 13 (16), art. no. 2758, 2021, **@2021** Линк **1.000**

634. Polanowski, P., Sikorski, A."The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study". Soft Matter, 17 (46), pp. 10516-10526, 2021, **@2021** Линк **1.000**

241. Virgiliis, A De, **Milchev, A.**, Rostiashvili, VG, Vilgis, TA. Structure and dynamics of a polymer melt at an attractive surface. The European Physical Journal E, 35, 9, 2012, 1-11. ISI IF:1.757

Цитира се в:

635. Bačová, P., Li, W., Behbahani, A.F., Burkhart, C., Polińska, P., Doxastakis, M., Harmandaris, V. "Coupling between polymer conformations and dynamics near amorphous silica surfaces: A direct insight from atomistic simulations". Nanomaterials, 11 (8), art. no. 2075, 2021, **@2021** Линк **1.000**

636. Giunta, G., Chiricotto, M., Jackson, I., Karimi-Varzaneh, H.A., Carbone, P. "Multiscale modelling of heterogeneous fillers in polymer composites: The case of polyisoprene and carbon black". Journal of Physics Condensed Matter, 33 (19), art. no. 194003, 2021, **@2021** Линк **1.000**

637. Kruteva, M. "Dynamics studied by Quasielastic Neutron Scattering (QENS)" Adsorption, 27 (5), pp. 875-889, 2021, **@2021** Линк **1.000**

242. **A. Milchev**, K. Binder. Thermal degradation of adsorbed bottle-brush macromolecules: When do strong covalent bonds break easily. 2012

Цитира се в:

638. Mohammadi, E., Joshi, S.Y., Deshmukh, S.A. "A review of computational studies of bottlebrush polymers". Computational Materials Science 199, 110720, 2021, **@2021** Линк **1.000**

243. **A. Milchev**, K. Binder, A. Bhaltacharya. Forced translocation of a polymer: Dynamical scaling versus molecular dynamics simulation. 2012

Цитира се в:

639. Domański, Z., Grzybowski, A.Z. "Probabilistic model for passage time of chain-like structure through thick membrane". Acta Physica Polonica A, 139 (5), pp. 513-516, 2021, **@2021** Линк **1.000**

640. Lu, Y., Wang, Z., An, L., Shi, A.-C. "Polymer Translocation Time". Journal of Physical Chemistry Letters, 12 (47), pp. 11534-11542, 2021, **@2021** Линк **1.000**

641. Tan, F., Chen, Y., Zhao, N. "Effects of active crowder size and activity-crowding coupling on polymer translocation". Soft Matter, 17 (7), pp. 1940-1954, 2021, **@2021** Линк **1.000**

642. Wang, C., Wu, F., Yang, X., Chen, Y.-C., Luo, M.-B. "Driven injection of a polymer into a spherical cavity: A Langevin dynamics simulation study". Chinese Physics B, 30 (10), art. no. 108202, 2021, **@2021** Линк **1.000**

244. Boiadjieva, T.Z., **Mirkova, L.**, Kronberger, H., Steck, T., **Monev, M.**. Hydrogen permeation in steel during electroplating of Zn and Zn-Cr coatings. Journal of the Electrochemical Society, 159, 12, 2012, ISSN:134651, DOI:10.1149/2.057212jes, D730-D736

Цитира се в:

643. Zhuang, R., Tan, Y., Liu, Y., ...Ouyang, Y., Du, Y., "Interdiffusion behaviors and mechanical properties of Zn–Cr system", Calphad, 74, 102308, 2021, **@2021** Линк **1.000**

245. Binder, K., **Milchev, A.**. Polymer brushes on flat and curved surfaces: How computer simulations can help to test theories and to interpret experiments. "Journal of Polymer Science, Part B: Polymer Physics?, 50, 22, 2012, ISSN:8876266, DOI:10.1002/polb.23168, 1515-1555

Цитира се в:

644. Arraez, F.J., Van Steenberge, P.H.M., Sobieski, J., Matyjaszewski, K., D'hooge, D.R. "Conformational Variations for Surface-Initiated Reversible Deactivation Radical Polymerization: From Flat to Curved Nanoparticle Surfaces". Macromolecules, 54 (18), pp. 8270-8288, 2021, **@2021** Линк **1.000**

645. Barry, E., Burns, R., Chen, W., De Hoe, G.X., De Oca, J.M.M., De Pablo, J.J., Dombrowski, J., Elam, J.W., Felts, A.M., Galli, G., Hack, J., He, Q., He, X., Hoenig, E., Iscen, A., Kash, B., Kung, H.H., Lewis, N.H.C., Liu, C., Ma, X., Mane, A., Martinson, A.B.F., Mulfort, K.L., Murphy, J., Mølhave, K., Nealey, P., Qiao, Y., Rozyyev, V., Schatz, G.C., Sibener, S.J., Talapin, D., Tiede, D.M., Tirrell, M.V., Tokmakoff, A., Voth, G.A., Wang, Z., Ye, Z., Yesibolati, M., Zaluzec, N.J., Darling, S.B. "Advanced Materials for Energy-Water Systems: The Central Role of Water/Solid Interfaces in Adsorption, Reactivity, and Transport". Chemical Reviews, 121 (15), pp. 9450-9501, 2021, **@2021** Линк **1.000**

646. Beyou, E., Bourgeat-Lami, E. "Organic–inorganic hybrid functional materials by nitroxide-mediated polymerization". Progress in Polymer Science, 121, art. no. 101434, 2021, **@2021** Линк **1.000**

647. Borówko, M., Staszewski, T. "Adsorption on ligand-tethered nanoparticles". International Journal of Molecular Sciences, 22 (16), art. no. 8810, 2021, **@2021** Линк **1.000**

648. Chen, N., Davydovich, O., McConnell, C., Sidorenko, A., Moore, P.B. "Densely packed tethered polymer nanoislands: A simulation study". Polymers, 13 (15), art. no. 2570, 2021, **@2021** Линк **1.000**

649. Egorov, S.A. "Linear and Ring Polymer Brushes: A Density Functional Theory Study". Macromolecular Theory and Simulations, 2021, **@2021** Линк **1.000**

650. ErbaÅy, A. "Interactions between densely grafted molten polymer brushes: Scaling theories versus molecular simulations" Turkish Journal of Physics, 45 (1), pp. 1-12, 2021, **@2021** Линк **1.000**

651. Hałagan, K., Banaszak, M., Jung, J., Polanowski, P., Sikorski, A. "Dynamics of opposing polymer brushes: A computer simulation study". Polymers, 13 (16), art. no. 2758, 2021, **@2021** Линк **1.000**

652. He J., Song F., Li X., Chen, L., Gong X., Tu W., "A novel kind of room temperature self-healing poly(urethane-urea) with robust mechanical strength based on aromatic disulfide", Journal of Polymer Research, 28(4), art. no. 122, 2021., **@2021** **1.000**

653. Hoogenboom, B.W., Hough, L.E., Lemke, E.A., Lim, R.Y.H., Onck, P.R., Zilman, A. "Physics of the nuclear pore complex: Theory, modeling and experiment". Physics Reports, 921, pp. 1-53, 2021, **@2021** Линк **1.000**

654. Klement, M., "Computational Studies of Anisotropic Particles", Thesis for: Doctoral Advisor: Michael Schmiedeberg Friedrich-Alexander-University of Erlangen-Nürnberg, 2021, **@2021** **1.000**

655. Li, S.-J., Shi, X. "Tailoring Antifouling Properties of Nanocarriers via Entropic Collision of Polymer Grafting ACS Nano, 15 (3), pp. 5725-5734, 2021, **@2021** Линк **1.000**

656. Liu, Y., Aizenberg, J., Balazs, A.C. "Using dissipative particle dynamics to model effects of chemical reactions occurring within hydrogels". Nanomaterials, 11 (10), art. no. 2764, 2021., **@2021** Линк **1.000**

657. Manav, M., Ponga, M., Phani, A.S. "Stress in a Stimuli-Responsive Polymer Brush" Macromolecules, 54 (1), pp. 170-182, 2021, **@2021** Линк **1.000**

658. Pastorino, C., Müller, M. "Liquid and Droplet Transport in Brush-Coated Cylindrical Nanochannels: Brush-Assisted Droplet Formation". Journal of Physical Chemistry B, 125 (1), pp. 442-449, 2021, **@2021** Линк **1.000**

659. Polanowski P., Sikorski A., "The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study", Soft Matter, 17(46), 10516-10526, 2021., **@2021** **1.000**

660. Reese, C.J., Boyes, S.G. "New methods in polymer brush synthesis: Non-vinyl-based semiflexible and rigid-rod polymer brushes". Progress in Polymer Science, 114, art. no. 101361, 2021, **@2021** Линк **1.000**

661. Solano Canchaya, J.G., Clavier, G., Garruchet, S., Latour, B., Martzel, N., Devémy, J., Goujon, F., Dequidt, A., Blaak, R., Munch, E., Malfreyt, P. "Rheological properties of polymer chains at a copper oxide surface: Impact of the chain length, surface coverage, and grafted polymer shape". Physical Review E, 104 (2), art. no. 024501, 2021, **@2021** Линк **1.000**

662. Thum, A., Diddens, D., Heuer, A. "Impact of Charged Surfaces on the Structure and Dynamics of Polymer Electrolytes: Insights from Atomistic Simulations". Journal of Physical Chemistry C, 2021, **@2021** Линк **1.000**

663. Ushakova, A.S., Lazutin, A.A., Vasilevskaya, V.V. "Flowerlike Multipetal Structures of Nanoparticles Decorated by Amphiphilic Homopolymers". Macromolecules, 54 (13), pp. 6285-6295, 2021, **@2021** Линк **1.000**

664. Wójcik, A.J., Wolski, K., Zapotoczny, S. "Double-stranded surface-grafted polymer brushes with ladder-like architecture". European Polymer Journal, 155, art. no. 110577, 2021, **@2021** Линк **1.000**

665. Yang, Y., Lu, Q., Huang, C.-M., Qian, H., Zhang, Y., Deshpande, S., Arya, G., Ke, Y., Zauscher, S. "Programmable Site-Specific Functionalization of DNA Origami with Polynucleotide Brushes". Angewandte Chemie - International Edition, 60 (43), pp. 23241-23247, 2021, **@2021** Линк **1.000**

666. Zhu, P.W. "Effects of cosolvent partitioning on conformational transitions and tethered chain flexibility in spherical polymer brushes". Soft Matter, 17 (28), pp. 6817-6832, 2021, **@2021** Линк **1.000**

246. Mitov, M., Chorbadzhiyska, E., **Rashkov, R.**, Hubenova, Y.. Novel nanostructured electrocatalysts for hydrogen evolution reaction in neutral and weak acidic solutions. International Journal of Hydrogen Energy, 37, 21, 2012, ISSN:3603199, DOI:10.1016/j.ijhydene.2012.02.102, 16522-16526

Цитира се в:

667. Ifires M., Addad A., Barras A., Hadjersi T., Chegroune R., Szunerits S., Boukherroub R., Amin M.A.."Cathodic pre-polarization studies on the carbon felt/KOH interface: An efficient metal-free electrocatalyst for hydrogen generation". Electrochimica ActaVolume 37510 April 2021 Article number 137981, **@2021** Линк **1.000**

668. Yun W.H., Yoon Y.S., Yoon H.H., Nguyen P.K.T., Hur J.."Hydrogen production from macroalgae by simultaneous dark fermentation and microbial electrolysis cell with surface-modified stainless steel mesh cathode". International Journal of Hydrogen EnergyVolume 46, Issue 79, Pages 39136 - 3914516 November 2021, **@2021** Линк **1.000**

247. **Nanev, C.N.**, **Hodzhaoglu, F.V.**. Temperature control of protein crystal nucleation. Crystal Research and Technology, 47, 11, 2012, ISSN:2321300, DOI:10.1002/crat.201200340, 1195-1200

Цитира се в:

669. Zhang, Qingyang, et al. "Self-Assembly of Magnetic Lysozyme Crystals with a Medium of Polymers." Crystal Growth & Design, 2021, **@2021** **1.000**

248. Schabbach, L.M., Andreola, F., Barbieri, L., Lancellotti, I., **Karamanova, E.**, **Ranguelov, B.**, **Karamanov, A.**. Post-treated incinerator bottom ash as alternative raw material for ceramic manufacturing. Journal of the European Ceramic Society, 32, 11, 2012, ISSN:9552219, DOI:10.1016/j.jeurceramsoc.2012.01.020, 2843-2852. SJR:0.8, ISI IF:3

Цитира се в:

670. Arama, G. M., & Kim, L." CO-PROCESSING-TOWARDS ECONOMIC SUSTAINABILITY". Environmental Engineering & Management Journal (EEMJ), 20(1), 2021, **@2021** Линк **1.000**

671. He, Q., Chen, H., Tang, H., Sun, J., Xu, H., & Zhang, Y. (2021). Immobilization of by-product sulfate salt slag from high-salt organic wastewater with fly ash in lightweight aggregate ceramsite. Environmental Technology, 1-9.., **@2021** **1.000**

672. Kaya, M. "The effect of micro-SiO2 and micro-Al2O3 additive on the strength properties of ceramic powder-based geopolymer pastes". Journal of Material Cycles and Waste Management, 1-18, 2021, **@2021** Линк **1.000**

673. Lin, D. F., Lin, K. L., Shieh, S. I., & Chen, C. W. "Study of the operative conditions and the optimum amount of municipal incinerator bottom ash for the obtainment of ceramic floor tiles". Environmental Science and Pollution Research, 1-14, 2021, **@2021** Линк **1.000**

674. Lin, D. F., Wang, W. J., Chen, C. W., & Lin, K. L. " Applying Mixture of Municipal Incinerator Bottom Ash and Sewage Sludge Ash for Ceramic Tile Manufacturing". Materials, 14(14), 3863, 2021, **@2021** Линк **1.000**

675. Zanelli, C., Conte, S., Molinari, C., Soldati, R., & Dondi, M. " Waste recycling in ceramic tiles: a technological outlook". Resources, Conservation and Recycling, 168, 105289, 2021, **@2021** Линк **1.000**

249. **Karamanov, A.**, Avramov, I., Arrizza, L., Pascova, R., Gutzow, I.. Variation of Avrami parameter during non-isothermal surface crystallization of glass powders with different sizes. Journal of Non-Crystalline Solids, 358, 13-Dec, Elsevier, 2012, ISSN:223093, DOI:10.1016/j.jnoncrysol.2012.04.003, 1486-1490. JCR-IF (Web of Science):1.766

Цитира се в:

676. Basaran, N., & Capoglu, A. (2021). The effect of LiF, CaF2 and MgF2 Addition on the Sintering and Crystallisation Behaviour of a Base Glass Containing Calcined Bone Ash. Journal of Non-Crystalline Solids, 561, 120752., **@2021** **1.000**

677. Dimitriadis, K., Moschovas, D., Tulyaganov, D. U., & Agathopoulos, S. (2021). Glass-ceramics in the CaO–MgO–Al2O3–SiO2 system as potential dental restorative materials. International Journal of Applied Ceramic Technology, 18(6), 1938-1949., **@2021** **1.000**

678. Dimitriadis, K., Tulyaganov, D. U., & Agathopoulos, S. (2021). Development of novel alumina-containing bioactive glass-ceramics in the CaO-MgO-SiO2 system as candidates for dental implant applications. Journal of the European Ceramic Society, 41(1), 929-940., **@2021** **1.000**

679. Dimitriadis, K., Tulyaganov, D. U., Vasilopoulos, K. C., Karakassides, M. A., & Agathopoulos, S. (2021). Influence of K and Mg substitutions on the synthesis and the properties of CaO-MgO-SiO2/Na2O, P2O5, CaF2 bioactive glasses. Journal of Non-Crystalline Solids, 573, 121140., **@2021** **1.000**

680. Rodríguez-López, S., & Pascual, M. J. (2021). Sintering/Crystallization and Viscosity of Sealing Glass-Ceramics. Crystals, 11(7), 737., **@2021** **1.000**

681. Tao, G., Wang, B., Wang, H., & Qi, H. (2021, December). Multi-impurities induced crystallization for fused silica glasses upon heating by contact with the corundum plate. In Third International Conference on Optoelectronic Science and Materials (ICOSM 2021) (Vol. 12030, pp. 284-290). SPIE., **@2021** **1.000**

250. Reith, D., **Milchev, A.**, Virnau, P., Binder, K.. Computer simulation studies of chain dynamics in polymer brushes. Macromolecules, 45, 10, 2012, ISSN:249297, DOI:10.1021/ma202745b, 4381-4393

Цитира се в:

682. Arraez, F.J., Van Steenberge, P.H.M., Sobieski, J., Matyjaszewski, K., D'hooge, D.R. "Conformational Variations for Surface-Initiated Reversible Deactivation Radical Polymerization: From Flat to Curved Nanoparticle Surfaces". Macromolecules, 54 (18), pp. 8270-8288, 2021, **@2021** Линк **1.000**

683. Chang, Y.-Y., Yu, H.-Y. "Structural and Dynamical Coupling in Solvent-Free Polymer Brushes Elucidated by Molecular Dynamics Simulations" Langmuir, 37 (11), pp. 3331-3345, 2021, **@2021** Линк **1.000**

684. Egorov, S.A. "Linear and Ring Polymer Brushes: A Density Functional Theory Study". Macromolecular Theory and Simulations, 2021, **@2021** Линк **1.000**

685. Halagan, K., Banaszak, M., Jung, J., Polanowski, P., Sikorski, A. "Polymerization and structure of opposing polymer brushes studied by computer simulations". Polymers, 13 (24), art. no. 4294, 2021, **@2021** Линк **1.000**

686. Hałagan, K., Banaszak, M., Jung, J., Polanowski, P., Sikorski, A. "Dynamics of opposing polymer brushes: A computer simulation study". Polymers, 13 (16), art. no. 2758, 2021, **@2021** Линк **1.000**

687. Huang, J.-H., Sun, D.-D., Lu, R.-X. "Glass transition and dynamics of semiflexible polymer brushes". Physical Chemistry Chemical Physics, 23 (25), pp. 13895-13904, 2021, **@2021** Линк **1.000**

688. Li, S.-J., Shi, X. "Tailoring Antifouling Properties of Nanocarriers via Entropic Collision of Polymer Grafting". ACS Nano, 15 (3), pp. 5725-5734, 2021, **@2021** Линк **1.000**

251. **Jordanov, N.**, Wondraczek, L., **Gutzow, I.**. Thermodynamic properties of amorphous solids: The electrochemical approach. Journal of Non-Crystalline Solids, 358, 10, 2012, ISSN:223093, DOI:10.1016/j.jnoncrysol.2012.02.031, 1239-1256

Цитира се в:

689. Safonov, V.A., Fishgoit, L.A., Safonova, O.V., Glatzel, P., On the presence of covalently bound phosphorus in amorphous Ni–Co–P and Fe–Co–P electroplates, Materials Chemistry and Physics 272 (2021) 124987. ISSN: 0254-0584, **@2021** **1.000**

252. **Georgieva, J**, **Valova, E**, **Armyanov, S**, Philippidis, N, Poulios, I, Sotiropoulos, S. Bi-component semiconductor oxide photoanodes for the photoelectrocatalytic oxidation of organic solutes and vapours: A short review with emphasis to TiO 2-WO 3 photoanodes. Journal of Hazardous Materials, 211-212, 2012, ISSN:3043894, DOI:10.1016/j.jhazmat.2011.11.069, 30-46. ISI IF:3.925

Цитира се в:

690. Bessegato G.G., Cooke M.D., Christensen P.A., Wood D., Zanoni M.V.B., "Synthesis and electrochemical characterization of Si/TiO2/Au composite anode: efficient oxygen evolution and hydroxyl radicals generation", Electrochim. Acta, 370, Art # 137742 (2021), **@2021** Линк **1.000**

691. Camposeco R., Castillo S., Hinojosa-Reyes M., Mejía-Centeno I., Zanella R., "Surface acidity, adsorption capacity, and photocatalytic activity of SiO2 supported on TiO2 nanotubes for rhodamine b degradation", Top Catal, 64, 84–96 (2021), **@2021** Линк **1.000**

692. Chabalala M.B., Gumbi N.N., Mamba, B.B., Al-Abri M.Z., Nxumalo E. N., "Photocatalytic Nanofiber Membranes for the Degradation of Micropollutants and Their Antimicrobial Activity: Recent Advances and Future Prospects", Membranes, 11, 678 (2021), **@2021** Линк **1.000**

693. Chennah A., Amaterz E., Taoufyq A., Bakiz B., Kadmi Y., Bazzi L., Guinneton F., Gavarri J-R., Benlhachemi A., Photoelectrocatalytic degradation of rhodamine B pollutant with a novel zinc phosphate photoanode, Process Safety and Environmental Protection, 148, 200-209 (2021), **@2021** Линк **1.000**

694. Chenxiao Z., Zisheng Z., Xin G., Hong L., "Preparation and photoelectrocatalytic performance of CQDs modified Bi2MoO6 hybrid electrode", Chemical Industry & Engineering, 38 (3) 1-9 (2021), **@2021** Линк **1.000**

695. Divyapriya, G., Singh, S., Martínez-Huitle, C.A., Scaria, J., Karim, A.V, Nidheesh, P.V., Treatment of real wastewater by photoelectrochemical methods: An overview", Chemosphere, 276, 130188 (2021), **@2021** Линк **1.000**

696. Dutta V., Sharma S., Raizada P., Kumar Thakur V., Khan A. A.P., Saini V., Asiri A. M, Singh P., "An Overview on WO3 based photocatalyst for environmental remediation", J. Environm. Chem. Eng., 9, 105018, (2021), **@2021** Линк **1.000**

697. Elysabeth T., Mulia K., Ibadurrohman M., Dewi E. L., Slamet, "A comparative study of CuO deposition methods on titania nanotube arrays for photoelectrocatalytic ammonia degradation and hydrogen production", Internat. J. Hydrogen Energy, 46, 26873-26885 (2021), **@2021** Линк **1.000**

698. García-Ramírez, P., Ramírez-Morales, E., Solis Cortazar, J.C., Sirés, I., SilvaMartínez, S., "Influence of ruthenium doping on UV- and visible-light photoelectrocatalytic color removal from dye solutions using a TiO2 nanotube array photoanode", Chemosphere, 267, 128925 (2021), **@2021** Линк **1.000**

699. Grinberg, V.A., Emets, V.V., Tsodikov, M.V. Mayorova N. A., Maslov D. A., "Photoelectrocatalytic Degradation of Organic Compounds on Nanoscale Semiconductor Materials", Prot Met Phys Chem Surf 57, 699–712 (2021), **@2021** Линк **1.000**

700. Habibi R., Gilani N., Pasikhani J. V., Pirbazari A. E., "Improved photoelectrocatalytic activity of anodic TiO2 nanotubes by boron in situ doping coupled with geometrical optimization: Application of a potent photoanode in the purification of dye wastewater", J. Solid State Electrochem., 25, 545–560 **1.000**

(2021), **@2021** Линк

701. Liu X., Wei W., Ni B.-J., Ch. 14 „Photocatalytic and Photoelectrochemical Reforming of Biomass“, in “Solar-to-Chemical Conversion: Photocatalytic and Photoelectrochemical Processes”, Hongqi Sun (Editor), John Wiley & Sons, June 2021, Pages 389-417, First published: 29 March 2021, **@2021** Линк **1.000**

702. McMichael, S.; Fernández-Ibáñez, P.; Byrne, J.A. “A Review of Photoelectrocatalytic Reactors for Water and Wastewater Treatment”, Water, 13, 1198, 36 pages (2021), **@2021** Линк **1.000**

703. Mokhtarifar M, Nguyen DT, Sakar M, Pedeferri M, Asa M, Kaveh R, Diamanti MV, Do T-On, “Mechanistic insights into photogenerated electrons store-and-discharge in hydrogenated glucose template synthesized Pt: TiO2/WO3 photocatalyst for the round-the-clock decomposition of methanol”, Materials Research Bulletin 137, 111203 (2021), **@2021** Линк **1.000**

704. Ng B.-J., Kong X. Y., Chew Y.-H., Teh Y. W., Chai S.-P., Ch 15. “Photocatalytic and Photoelectrochemical Reforming of Biomass” in “Solar-to-Chemical Conversion: Photocatalytic and Photoelectrochemical Processes”, Hongqi Sun (Editor), John Wiley & Sons, June 2021, 480 Pages, ISBN: 978-3-527-34718-6, **@2021** **1.000**

705. Nkwachukwu O. V., Arotiba O. A., Perovskite Oxide–Based Materials for Photocatalytic and Photoelectrocatalytic Treatment of Water, Front Chem., 9 634630 (2021), **@2021** Линк **1.000**

706. Peleyeju. M. G., Viljoen E. L., „WO3-based catalysts for photocatalytic and photoelectrocatalytic removal of organic pollutants from water – A review, J. Water Process Engin., 40, 101930 (2021), **@2021** Линк **1.000**

707. Sun M., He Z.-L., Yuan C., Wang X., Zhai C., Zhu M., “Heterostructures based on g-C3N4/CuI as a photoactivated support for Pt nanoparticles toward efficient photoelectrocatalytic methanol oxidation”, Ind. Eng. Chem. Res., 60, 762–770, (2021), **@2021** Линк **1.000**

708. Ye, S., Chen, Y., Yao, X., Zhang, J., “Simultaneous removal of organic pollutants and heavy metals in wastewater by photoelectrocatalysis: A review”, Chemosphere, 273, Art. # 128503 (2021), **@2021** Линк **1.000**

253. Wang, R., Egorov, S.A., **Milchev, A.**, Binder, K.. Stretching of free chains confined in concave brush-coated nanocylinders. Macromolecules, 45, 5, 2012, ISSN:249297, DOI:10.1021/ma202620z, 2580-2587

Цитира се в:

709. Pastorino, C., Müller, M. "Liquid and Droplet Transport in Brush-Coated Cylindrical Nanochannels: Brush-Assisted Droplet Formation". Journal of Physical Chemistry B 125(1), pp. 442-449, 2021, **@2021** Линк **1.000**

254. **Pascova, R.**, **Avdeev, G.**, **Gutzow, I.**, Penkov, I., Ludwig, F.-P., Schmelzer, J.W.P.. Refractory Alkali-Free Cristobalite Glass-Ceramics: Activated Reaction Sinter-Crystallization Synthesis and Properties. International Journal of Applied Glass Science, 3, 1, 2012, ISSN:20411286, DOI:10.1111/j.2041-1294.2011.00072.x, 75-87. ISI IF:2.611

Цитира се в:

710. Pan, Z., Guo, J., Li, S., Xiong, J., Long, A., Experimental study on high temperature performances of silica-based ceramic core for single crystal turbine blades (2021) Ceramics International., **@2021** Линк **1.000**

711. Pan, Z.-P., Guo, J.-Z., Li, S.-M., Li, X.-G., Effect of nonuniform sintering on mechanical and thermal properties of silica-based ceramic cores, (2021) China Foundry, 18 (5), pp. 457-462., **@2021** Линк **1.000**

255. **Georgieva, J.**. TiO 2/WO 3 photoanodes with enhanced photocatalytic activity for air treatment in a polymer electrolyte cell. Journal of Solid State Electrochemistry, 16, 3, 2012, ISSN:14328488, DOI:10.1007/s10008-011-1504-7, 1111-1119

Цитира се в:

712. Van Hal, M., Campos, R., Lenaerts, S., De Wael, K., Verbruggen, S.W. "Gas phase photofuel cell consisting of WO3- and TiO2-photoanodes and an air-exposed cathode for simultaneous air purification and electricity generation". Applied Catalysis B: Environmental, 292, 120204, 2021, **@2021** Линк **1.000**

256. **Ilieva, M.**, **Nakova, A.**, **Tsakova, V.**. TiO 2/WO 3 hybrid structures produced through a sacrificial polymer layer technique for pollutant photoand photoelectrooxidation under ultraviolet and visible light illumination. Journal of Applied Electrochemistry, 42, 2, 2012, ISSN:0021891X, DOI:10.1007/s10800-011-0378-9, 121-129. ISI IF:2.409

Цитира се в:

713. Behnood, R., Sodeifian, G., " Novel ZnCo2O4 embedded with S, N-CQDs as efficient visible-light photocatalyst", J. Photochem.Photobiology A: Chemistry 405, 112971, 2021, **@2021** **1.000**

714. Shamshi Hassan, M., " One Pot Synthesis of CoTiO3-TiO2 Composite Nanofibers and its Application in Dye Degradation", Research Anthology on Synthesis, Characterization, and Applications of Nanomaterials, 2021, **@2021** **1.000**

2013

257. Jalili, K., Abbasi, F., **Milchev, A.**. Surface microdynamics phase transition and internal structure of high-density, ultrathin PHEMA-b-PNIPAM diblock copolymer brushes on silicone rubber. Macromolecules, 46, 13, 2013, DOI:10.1021/ma4003962, 5260-5278. ISI IF:5.8

Цитира се в:

715. Kamzabek, D., Le Dé, B., Coche-Guérente, L., Miomandre, F., Dubacheva, G.V. "Thermoresponsive Fluorescence Switches Based on Au@pNIPAM **1.000**

Nanoparticles". Langmuir, 37 (37), pp. 10971-10978, 2021, **@2021** Линк

716. Wang, Y., Ling, Y., Zhou, S., Chen, Y., Liang, M., Zou, H. "Enhanced mechanical and adhesive properties of PDMS based on novel PDMS-epoxy IPN structure". Journal of Polymer Research, 28 (5), art. no. 171, 2021, **@2021** Линк **1.000**

717. Yang, R., Wang, X., Yan, S., Dong, A., Luan, S., Yin, J. "Advances in design and biomedical application of hierarchical polymer brushes". Progress in Polymer Science, 118, art. no. 101409, 2021, **@2021** Линк **1.000**

718. Zhou, S., Qian, S., Wang, W., Ni, Z., Yu, J. "Fabrication of a Hydrophilic Low-Friction Poly(hydroxyethyl methacrylate) Coating on Silicon Rubber". Langmuir, 37 (45), pp. 13493-13500, 2021, **@2021** Линк **1.000**

258. Boiadjieva, T., **Mirkova, L.**, Kronberger, H., Steck, T., **Monev, M.**. Hydrogen permeation through steel electroplated with Zn or Zn-Cr coatings. Electrochimica Acta, 114, 2013, ISSN:134686, DOI:10.1016/j.electacta.2013.06.010, 790-798

Цитира се в:

719. Mallick, D., Mary, N., Raja, V.S., Normand, B., "Study of Diffusible Behavior of Hydrogen in First Generation Advanced High Strength Steels", Metals, 11(5), 782, 2021, **@2021** Линк **1.000**

259. **Milchev, A.**, Binder, K.. Adsorption of oligomers and polymers into a polymer brush formed from grafted ring polymers. Macromolecules, 46, 21, 2013, ISSN:249297, DOI:10.1021/ma401678z, 8724-8731

Цитира се в:

720. Egorov, S.A. "Linear and Ring Polymer Brushes: A Density Functional Theory Study". Macromolecular Theory and Simulations, 2021, **@2021** Линк **1.000**

721. Polanowski P., Sikorski A., "The structure of polymer brushes: The transition from dilute to dense systems: A computer simulation study", Soft Matter, 17(46), 10516-10526, 2021, **@2021** **1.000**

260. Iankov, R., Datcheva, M., Cherneva, S., **Stoychev, D.**. Finite element simulation of nanoindentation process. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 8236 LNCS, I. Dimov, I. Faragó, L. Vulkov (Eds.), Numer anal its appl 5th int conf NAA 2012, Lozenetz, Bulg. June 15–20, 2012, revis sel pap, Springer, Berlin, Heidelberg (2013), 2013, ISSN:3029743, DOI:10.1007/978-3-642-41515-9_35, 319-326. SJR:0.318

Цитира се в:

722. UMERICAL STUDY OF MECHANICAL PROPERTIES OF HYBRID SOLAR CELL THIN FILM LAYERS BY NANOINDENTATION A Thesis Submitted to the Department of Materials Science and Engineering at African University of Science and Technology In Partial Fulfilment of the Requirements for the Degree of MASTER OF SCIENCE In The Department of Materials Science And Engineering Ajah, Jameal (2021-06-14) Thesis, URI: http://repository.aust.edu.ng/xmlui/handle/123456789/4997, **@2021** **1.000**

261. Gancheva, M.N., Iordanova, R.S., Dimitriev, Y.B., **Avdeev, G.V.**, Iliev, T.C.. Effects of mechanical activation on structure and photocatalytic properties of ZnO powders. Central European Journal of Chemistry, 11, 11, 2013, ISSN:18951066, DOI:10.2478/s11532-013-0314-4, 1780-1785

Цитира се в:

723. Zhou, Z., Wang, J., Jhun, C.G., Zno nanospheres fabricated by mechanochemical method with photocatalytic properties, (2021) Catalysts, 11 (5), art. no. 572., **@2021** Линк **1.000**

262. **Vessela Tsakova**. Conductive polymer-based materials for medical electroanalytic applications. Applications of Electrochemistry in Medicine, Springer, 2013, ISBN:978-1-4614-6147-0, 283-342

Цитира се в:

724. Chen, W.L., Dai, Y.M., Huang, B.S., Lai, G.H., Tsai, M.H., "Preparation and electrochemical sensor application of tetra aniline/graphene oxide/gold nanoparticle composites", Colloids Surf. A, 627, 127110, 2021, **@2021** **1.000**

263. Engelhardt, K., Lexis, M., **Gochev, G.**, Konnerth, C., Miller, R., Willenbacher, N., Peukert, W., Braunschweig, B.. PH effects on the molecular structure of β-lactoglobulin modified air-water interfaces and its impact on foam rheology. Langmuir, 29, 37, 2013, ISSN:7437463, DOI:10.1021/la402729g, 11646-11655. ISI IF:3.789

Цитира се в:

725. Bertsch, P., Böcker, L., Mathys, A., & Fischer, P. (2021). Proteins from microalgae for the stabilization of fluid interfaces, emulsions, and foams. Trends in Food Science and Technology, 108, 326-342. doi:10.1016/j.tifs.2020.12.014, **@2021** Линк **1.000**

726. Biviano, M. D., Böni, L. J., Berry, J. D., Fischer, P., & Dagastine, R. R. (2021). Viscoelastic characterization of the crosslinking of β-lactoglobulin on emulsion drops via microcapsule compression and interfacial dilational and shear rheology. Journal of Colloid and Interface Science, 583, 404-413. doi:10.1016/j.jcis.2020.09.008, **@2021** Линк **1.000**

727. Choudhary, H., Rudy, M. B., Dowling, M. B., & Raghavan, S. R. (2021). Foams with enhanced rheology for stopping bleeding. ACS Applied Materials and Interfaces, 13(12), 13958-13967. doi:10.1021/acsami.0c22818, **@2021** Линк **1.000**

728. Emwas, A. -., Alghrably, M., Dhahri, M., Sharfalddin, A., Alsiary, R., Jaremko, M., . . . Lachowicz, J. I. (2021). Living with the enemy: From protein-misfolding pathologies we know, to those we want to know. Ageing Research Reviews, 70 doi:10.1016/j.arr.2021.101391, **@2021** Линк **1.000**

729. Heiden-Hecht, T., Ulbrich, M., Drusch, S., & Brückner-Gühmann, M. (2021). Interfacial properties of β-lactoglobulin at the Oil/Water interface: Influence of **1.000**

starch conversion products with varying dextrose equivalents. Food Biophysics, 16(2), 169-180. doi:10.1007/s11483-020-09658-4, **@2021** Линк

730. Hu, N., Zhang, K., Li, Y., Hou, T., Zhang, Z., & Li, H. (2021). Glycine betaine enhanced foam separation for recovering and enriching protein from the crude extract of perilla seed meal. Separation and Purification Technology, 276 doi:10.1016/j.seppur.2021.118712, **@2021** Линк **1.000**

731. Koop, J., Merz, J., & Schembecker, G. (2021). Hydrophobicity, amphilicity, and flexibility: Relation between molecular protein properties and the macroscopic effects of surface activity. Journal of Biotechnology, 334, 11-25. doi:10.1016/j.jbiotec.2021.05.002, **@2021** Линк **1.000**

732. Kubbutat, P., Leitão, L., & Kulozik, U. (2021). Stability of foams in vacuum drying processes. effects of interactions between sugars, proteins, and surfactants on foam stability and dried foam properties. Foods, 10(8) doi:10.3390/foods10081876, **@2021** Линк **1.000**

733. Kurz, F., Reitberger, V., Hengst, C., Bilke-Krause, C., Kulozik, U., & Dombrowski, J. (2021). Correlation between physico-chemical characteristics of particulated β-lactoglobulin and its behavior at air/water and oil/water interfaces. Foods, 10(6) doi:10.3390/foods10061426, **@2021** Линк **1.000**

734. López-Castejón, M. L., Bengoechea, C., Alguacil, J. M., & Carrera, C. (2021). Prebiotic food foams stabilized by inulin and β-lactoglobulin. Food Hydrocolloids, 119 doi:10.1016/j.foodhyd.2021.106829, **@2021** Линк **1.000**

735. MacWilliams, S. V., Sebben, D. A., Clulow, A. J., Ferri, J. K., Gillies, G., Golding, M., Boyd, B. J., Beattie, D. A., Krasowska, M. (2021). The effect of emulsifier type on the secondary crystallisation of monoacylglycerol and triacylglycerols in model dairy emulsions. Journal of Colloid and Interface Science, doi:10.1016/j.jcis.2021.11.008, **@2021** Линк **1.000**

736. Qiao, X., Miller, R., Schneck, E., & Sun, K. (2021). Influence of salt addition on the surface and foaming properties of silk fibroin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 609 doi:10.1016/j.colsurfa.2020.125621, **@2021** Линк **1.000**

737. Ramamirtham, S., Whitby, C. P., Zare, D., Weeks, M., & Williams, M. A. K. (2021). The rheological properties of bovine β-lactoglobulin stabilized oil/water interfaces depend on the protein's quaternary structure. Food Hydrocolloids, 120 doi:10.1016/j.foodhyd.2021.106834, **@2021** Линк **1.000**

738. Tian, Y., Taha, A., Zhang, P., Zhang, Z., Hu, H., & Pan, S. (2021). Effects of protein concentration, pH, and NaCl concentration on the physicochemical, interfacial, and emulsifying properties of β-conglycinin. Food Hydrocolloids, 118 doi:10.1016/j.foodhyd.2021.106784, **@2021** Линк **1.000**

739. Tseng, W. -., Tsay, R. -., Le, T. T. -., Hussain, S., Noskov, B. A., Akentiev, A., . . . Lin, S. -. (2021). Evaluation of the dilational modulus of protein films by pendant bubble tensiometry. Journal of Molecular Liquids, doi:10.1016/j.molliq.2021.118113, **@2021** Линк **1.000**

740. Webber, J. L., Bradshaw-Hajek, B. H., Krasowska, M., & Beattie, D. A. (2021). Polyelectrolyte multilayer formation on protein layer supports. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 629 doi:10.1016/j.colsurfa.2021.127470, **@2021** Линк **1.000**

741. Webber, J. L., McMillin, R., Ferri, J. K., Bradshaw-Hajek, B. H., Krasowska, M., & Beattie, D. A. (2021). Mechanical properties of thin films at the dodecane-water interface, for multilayered emulsion applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 626 doi:10.1016/j.colsurfa.2021.127051, **@2021** Линк **1.000**

742. Yang, X., Wang, W., Li, X., Yu, X., Fu, Q., Liu, W., & Li, S. (2021). Study on effect of enzymatic hydrolysis on foaming properties of almond protein isolate and its application. [酶解处理对扁桃仁蛋白质起泡特性影响及其应用研究] Journal of Food Science and Technology (China), 39(5), 82-92. doi:10.12301/j.issn.2095-6002.2021.05.010, **@2021** Линк **1.000**

743. Yılmaz, H., Lee, S., & Chronakis, I. S. (2021). Interactions of β-lactoglobulin with bovine submaxillary mucin vs. porcine gastric mucin: The role of hydrophobic and hydrophilic residues as studied by fluorescence spectroscopy. Molecules, 26(22) doi:10.3390/molecules26226799, **@2021** Линк **1.000**

744. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

264. Ilieva, L., Tabakova, T., Pantaleo, G., Ivanov, I., Zanella, R., Paneva, D., Velinov, N., Sobczak, J.W., Lisowski, W., **Avdeev, G.**, Venezia, A.M.. Nano-gold catalysts on Fe-modified ceria for pure hydrogen production via WGS and PROX: Effect of preparation method and Fe-doping on the structural and catalytic properties. Applied Catalysis A: General, 467, 2013, ISSN:0926860X, DOI:10.1016/j.apcata.2013.07.014, 76-90

Цитира се в:

745. Jeong, C.-H., Jeon, K.-W., Byeon, H.-J., Choi, T.-Y., Kim, H.-M., Jeong, D.-W., Effects of niobium addition on active metal and support in Co–CeO2 catalyst for the high temperature water gas shift reaction, (2021) Journal of Industrial and Engineering Chemistry, 100, pp. 149-158., **@2021** Линк **1.000**

746. Liu, M., Liu, C., Luo, M., Peera, S.G., Liang, T., Theoretical study on iron and nitrogen co-doped graphene catalyzes CO oxidation, (2021) Molecular Catalysis, 509, art. no. 111624., **@2021** Линк **1.000**

265. Dan, A., **Gochev, G.**, Kr?gel, J., Aksenenko, E.V., Fainerman, V.B., Miller, R.. Interfacial rheology of mixed layers of food proteins and surfactants. Current Opinion in Colloid and Interface Science, 18, 4, 2013, ISSN:13590294, DOI:10.1016/j.cocis.2013.04.002, 302-310. ISI IF:5.785

Цитира се в:

747. Fang, Q., Li, R., Li, P., Yuan, Y., Zhuang, H., & Zhang, C. (2021). Interaction between soy protein isolate and surfactant at the interface of antibacterial nanoemulsions loaded with riboflavin tetra butyrate. International Journal of Food Science and Technology, doi:10.1111/ijfs.15424, **@2021** Линк **1.000**

748. Heiden-Hecht, T., & Drusch, S. (2021). Impact of saturation of fatty acids of phosphatidylcholine and oil phase on properties of β-lactoglobulin at the Oil/Water interface. Food Biophysics, doi:10.1007/s11483-021-09705-8, **@2021** Линк **1.000**

749. Heiden-Hecht, T., Taboada, M. L., Brückner-Gühmann, M., Karbstein, H. P., Gaukel, V., & Drusch, S. (2021). Towards an improved understanding of spray-dried emulsions: Impact of the emulsifying constituent combination on characteristics and storage stability. International Dairy Journal, 121 doi:10.1016/j.idairyj.2021.105134, **@2021** Линк **1.000**

750. Jaensson, N. O., Anderson, P. D., & Vermant, J. (2021). Computational interfacial rheology. Journal of Non-Newtonian Fluid Mechanics, 290 doi:10.1016/j.jnnfm.2021.104507, **@2021** Линк **1.000**

751. Taboada, M. L., Heiden-Hecht, T., Brückner-Gühmann, M., Karbstein, H. P., Drusch, S., & Gaukel, V. (2021). Spray drying of emulsions: Influence of the emulsifier system on changes in oil droplet size during the drying step. Journal of Food Processing and Preservation, 45(9) **1.000**

doi:10.1111/jfpp.15753, **@2021** Линк

752. Wang, Y., Hartel, R. W., & Zhang, L. (2021). The stability of aerated emulsions: Effects of emulsifier synergy on partial coalescence and crystallization of milk fat. Journal of Food Engineering, 291 doi:10.1016/j.jfoodeng.2020.110257, **@2021** Линк **1.000**

266. **Lyutov, V.V.**, Ivanov, S.D., Mirsky, V.M., **Tsakova, V.T.**. Polyaniline doped with poly(acrylamidomethylpropanesulphonic acid): Electrochemical behaviour and conductive properties in neutral solutions. Chemical Papers, 67, 8, 2013, ISSN:3666352, DOI:10.2478/s11696-013-0341-9, 1002-1011

Цитира се в:

753. Gribkova, Kabanova, V., Tverskoy, V., Nekrasov , A., "Comparison of optical ammonia-sensing properties of conducting polymer complexes with polysulfonic acids", Chemosensors, 9(8) , 206, 2021, **@2021** Линк **1.000**

267. Rogilo, D.I., Fedina, L.I., Kosolobov, S.S., **Ranguelov, B.S.**, Latyshev, A.V.. Critical terrace width for two-dimensional nucleation during Si growth on Si(111)-(7x7) surface. Physical Review Letters, 111, 3, American Physical Society, 2013, ISSN:0031-9007, DOI:10.1103/PhysRevLett.111.036105, SJR:4.402, ISI IF:7.512

Цитира се в:

754. Benoit-Maréchal, L., Jabbour, M.E., Triantafyllidis, N. "Scaling laws for step bunching on vicinal surfaces: Role of the dynamical and chemical effects". Physical Review E, 104 (3), art. no. 034802, 2021, **@2021** Линк **1.000**

755. Guin, L., Jabbour, M.E., Shaabani-Ardali, L., Triantafyllidis, N. "Revisiting step instabilities on crystal surfaces. Part II: General theory". Journal of the Mechanics and Physics of Solids, 156, art. no. 104582, 2021, **@2021** Линк **1.000**

756. Vorontsova, I.A., Sitnikov, S.V. "Drift of two-dimensional vacancy islands on the si(100) surface under electromigration conditions". Scientific and Technical Journal of Information Technologies, Mechanics and Optics, 21 (5), 664-669, 2021, **@2021** Линк **1.000**

757. Załuska-Kotur, M., Popova, H., Tonchev, V. "Step bunches, nanowires and other vicinal “creatures”—ehrlich–schwoebel effect by cellular automata". Crystals, 11 (9), art. no. 1135, 2021, **@2021** Линк **1.000**

268. **Monev, M.**, Pfund, A., Beck, G., Petrov, K., Bretzler, R., Heuberger, U., Zielonka, A.. Effect of current density on composition and structure of electrodeposited Au-Ni alloy coatings. Transactions of the Institute of Metal Finishing, 91, 4, 2013, ISSN:202967, DOI:10.1179/0020296712Z.00000000088, 176-181

Цитира се в:

758. Xu, W., Zhu, C., Zhang, M., Bao, Q., Zheng, W., "Effect of current density on Ni-W coatings of SS316L current collectors for Na-S batteries", Materials Research Express, 8(10) June 2021, **@2021** Линк **1.000**

269. Mintsouli, I, **Georgieva, J**, **Armyanov, S**, **Valova, E**, **Avdeev, G**, Hubin, A, Steenhaut, O, Dille, J, Tsiplakides, D, Balomenou, S, Sotiropoulos, S. Pt-Cu electrocatalysts for methanol oxidation prepared by partial galvanic replacement of Cu/carbon powder precursors. Applied Catalysis B: Environmental, 136-137, 2013, ISSN:9263373, DOI:10.1016/j.apcatb.2013.01.059, 160-167. ISI IF:6.004

Цитира се в:

759. Garcia-Cardona, J., Alcaide, F., Brillas, E, Sirés, I., Cabot, P.L., Testing PtCu Nanoparticles Supported on Highly Ordered Mesoporous Carbons CMK3 and CMK8 as Catalysts for Low-Temperature Fuel Cells”, Catalysts, 11, 724 (2021)., **@2021** Линк **1.000**

760. Guan Y., Liu Y., „Pt Modified Ni-Mo-based Hydrate as Bifunctional Electrocatalysts for Overall Water Splitting“, New J. Chem., 45, 16313-16318 (2021), **@2021** Линк **1.000**

761. Halim E. M., Perrot H., Sel O., Debiemme-Chouvy C., Lafdi K., Rhazi M. E., “Electrosynthesis of hierarchical Cu2O–Cu(OH)2 nanodendrites supported on carbon nanofibers/poly(para-phenylenediamine) nanocomposite as high-efficiency catalysts for methanol electrooxidation”, Internat. J. Hydrogen Energy, 46 (38) 19926-19938 (2021), **@2021** Линк **1.000**

762. Kamyabi M. A., Jadali S., “Rational design of PdCu nanoparticles supported on a templated Ni foam: The cooperation effect of morphology and composition for electrocatalytic oxidation of ethanol” Intern. Journ. J. Hydrogen Ener., 79, 39387-39403 (2021), **@2021** Линк **1.000**

763. Kaur A., Kaur G., Singh P. P., Kaushal S., “Supported bimetallic nanoparticles as anode catalysts for direct methanol fuel cells: A review, Internat. J. Hydrogen Energy, 46, 15820-15849 (2021), **@2021** **1.000**

764. Wan Y., Lee J.-M., “Toward Value-Added Dicarboxylic Acids from Biomass Derivatives via Thermocatalytic Conversion”, ACS Catal., 11, XXX, 2524– 2560 (2021), **@2021** Линк **1.000**

765. Xiao Z., Jiang Y., Wu H., , Zhong H., Song H., Abdelhafiz A., Zeng J., “De-alloyed ternary Electrocatalysts with high activity and stability for oxygen reduction reaction”, J. Alloys & Compounds, 877, 160221 (2021), **@2021** Линк **1.000**

766. Xiao Z., Wu H., Zhong H.. Abdelhafiz A., Zeng J., De-alloyed PtCu/C Catalysts with Enhanced Electrocatalytic Performance for Oxygen Reduction Reaction, Nanoscale, 13, 13896-13904 (2021), **@2021** Линк **1.000**

270. Christova, N., Tuleva, B., Kril, A., Georgieva, M., Konstantinov, S., **Terziyski, I.**, Nikolova, B., Stoineva, I.. Chemical structure and in vitro antitumor activity of rhamnolipids from pseudomonas aeruginosa BN10. Applied Biochemistry and Biotechnology, 170, 3, 2013, ISSN:2732289, DOI:10.1007/s12010-013-0225-z, 676-689. ISI IF:1.735

Цитира се в:

767. Bettencourt, A.F., Tomé, C., Oliveira, T., Martin V., Santos C., Gonçalves L., Fernandes M.H., Gomes, P.S., Ribeiro, I.A.C., Exploring the potential of chitosan-based particles as delivery-carriers for promising antimicrobial glycolipid biosurfactants, Carbohydrate Polymers, 254, 117433, DOI: 10.1016/j.carbpol.2020.117433 (2021), **@2021** Линк **1.000**

768. Giugliano, R., Buonocore, C., Zannella, C., Chianese A., Esposito F.P., Tedesco P., De Filippis A., Galdiero M, Franci, G., de Pascale, D., Antiviral activity of the rhamnolipids mixture from the antarctic bacterium pseudomonas gessardii M15 against herpes simplex viruses and coronaviruses, (Open Access), Pharmaceutics, 13(12), 2121. DOI: 10.3390/pharmaceutics13122121 (2021), **@2021** Линк **1.000**

769. Mishra, N., Rana, K., Seelam, S.D., Kumar R., Pandey V., Salimath, B.P., Agsar, D., Characterization and Cytotoxicity of Pseudomonas Mediated Rhamnolipids Against Breast Cancer MDA-MB-231 Cell Line, (Open Access), Frontiers in Bioengineering and Biotechnology, 9, 761266. DOI:10.3389/fbioe.2021.761266 (2021), **@2021** Линк **1.000**

770. Sabarinathan, D., Vanaraj, S., Sathiskumar, S., Poorna Chandrika S., Sivarasan G., Arumugam S.S., Preethi K., Li, H., Chen, Q., Characterization and application of rhamnolipid from Pseudomonas plecoglossicida BP03, Letters in Applied Microbiology, 72(3), pp. 251-262, DOI: 10.1111/lam.13403 (2021), **@2021** Линк **1.000**

771. Thakur, P., Saini, N.K., Thakur, V.K., Gupta V.K., Saini R.V., Saini A.K., Rhamnolipid the Glycolipid Biosurfactant: Emerging trends and promising strategies in the field of biotechnology and biomedicine, (Open Access), Microbial Cell Factories, 20(1), 1. DOI: 10.1186/s12934-020-01497-9 (2021), **@2021** Линк **1.000**

772. Voulgaridou, G.-P., Mantso, T., Anestopoulos, I., Klavaris, A., Katzastra, C., Kiousi, D.-E., Mantela, M. Galanis A., Gardikis K., Banat I.M., Gutierrez T., Sałek K., Euston S., Panayiotidis, M.I., Pappa, A., Toxicity profiling of biosurfactants produced by novel marine bacterial strains (Open Access), International Journal of Molecular Sciences, 22(5), 2383, pp. 1-15. DOI: 10.3390/ijms22052383 (2021), **@2021** Линк **1.000**

271. Avramova, I., Suzer, S., **Guergova, D.**, **Stoychev, D.**, Stefanov, P.. CeOx/Al2O3 thin films on stainless steel substrate - Dynamical X-ray photoelectron spectroscopy investigations. Thin Solid Films, 536, 2013, ISSN:0040-6090, DOI:10.1016/j.tsf.2013.03.049, 63-67. SJR:0.693, ISI IF:1.759

Цитира се в:

773. Yurtcan, MT, Deposition of grid-like single-crystal Ce2O3 thin films on LaAlO3(100) substrate by pulsed laser deposition. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 32 (3) , pp.3854-3862, **@2021** Линк **1.000**

774. Zhou, C., Xu, X., Dai, L., Gong, H., Lin, S., Chemical-mechanical polishing performance of core-shell structured polystyrene@ceria/nanodiamond ternary abrasives on sapphire wafer, Ceramics International 47(22), pp. 31691-31701 DOI:10.1016/j.ceramint.2021.08.048, **@2021** **1.000**

272. **Nanev, C.N.**, **Tonchev, V.D.**, **Hodzhaoglu, F.V.**. Protocol for growing insulin crystals of uniform size. Journal of Crystal Growth, 375, 2013, ISSN:220248, DOI:10.1016/j.jcrysgro.2013.04.010, 10-15

Цитира се в:

775. Contreras-Montoya, Rafael, et al. "Insulin Crystals Grown in Short-Peptide Supramolecular Hydrogels Show Enhanced Thermal Stability and Slower Release Profile." ACS Applied Materials & Interfaces, 13.10: 11672-11682, 2021, **@2021** **1.000**

273. **Gyurova, A.Y.**, Doltchinkova, V., Georgieva, R., Danova, S., Stoylov, S.P.. Low frequency electric polarizability and zeta-potential of Escherichia coli HB101 (K-12) cells during inactivation with ethanol. Central European Journal of Chemistry, 11, 5, 2013, ISSN:18951066, DOI:10.2478/s11532-013-0220-9, 801-810. JCR-IF (Web of Science):1.329

Цитира се в:

776. Rao, B.R., Kumar, R., Haque, S., Kumar, J. M., Rao, T. N., Kothapalli, R. V. S. N., Patra, C. R., Ag2[Fe(CN)5NO]-Fabricated Hydrophobic Cotton as a Potential Wound Healing Dressing: An in Vivo Approach, ACS Applied Materials and Interfaces, 13, 10689 – 1070 (2021)., **@2021** Линк **1.000**

274. **Gochev, G.**, Retzlaff, I., Aksenenko, E.V., Fainerman, V.B., Miller, R.. Adsorption isotherm and equation of state for β-Lactoglobulin layers at the air/water surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 422, 2013, ISSN:9277757, DOI:10.1016/j.colsurfa.2013.01.008, 33-38. JCR-IF (Web of Science):3.412

Цитира се в:

777. Bergfreund, J., Bertsch, P., & Fischer, P. (2021). Adsorption of proteins to fluid interfaces: Role of the hydrophobic subphase. Journal of Colloid and Interface Science, 584, 411-417. doi:10.1016/j.jcis.2020.09.118, **@2021** Линк **1.000**

778. Bergfreund, J., Diener, M., Geue, T., Nussbaum, N., Kummer, N., Bertsch, P., Nyström, G., Fischer, P. (2021). Globular protein assembly and network formation at fluid interfaces: Effect of oil. Soft Matter, 17(6), 1692-1700. doi:10.1039/d0sm01870h, **@2021** Линк **1.000**

779. MacWilliams, S. V., Sebben, D. A., Clulow, A. J., Ferri, J. K., Gillies, G., Golding, M., . . . Krasowska, M. (2021). The effect of emulsifier type on the secondary crystallisation of monoacylglycerol and triacylglycerols in model dairy emulsions. Journal of Colloid and Interface Science, doi:10.1016/j.jcis.2021.11.008, **@2021** Линк **1.000**

780. Wollborn, T., Giefer, P., Kieserling, H., Wagemans, A. M., Drusch, S., & Fritsching, U. (2021). Investigation of local and temporal interfacial shear stress distribution during membrane emulsification. Canadian Journal of Chemical Engineering, doi:10.1002/cjce.24186, **@2021** Линк **1.000**

781. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

275. Iamboliev, T., Valkanov, S., **Atanasova, S.**. Microstructure embrittlement of hard metal-steel joint obtained under induction heating diffusion bonding. International Journal of Refractory Metals and Hard Materials, 37, 2013, ISSN:2634368, DOI:10.1016/j.ijrmhm.2012.10.021, 90-97. JCR-IF (Web of Science):1.989

Цитира се в:

782. Chen, H., Zhao, S., Zhang, C., Shi, Z., Gao, F., Wang, Q., Shen, Z., Li, W. "Interfacial reaction and thermoelectric properties of Ca3Co4O9 ceramic diffusion bonding joints with different electrode intermediate layers". Ceramics International, 2021, **@2021** Линк **1.000**

783. Chen, L., Guo, Z., Zhang, C., Li, Y., Wu, C., Liu, G. "Effects of welding current on the microstructure and mechanical behavior of resistance-welded WC-Co/B318 steel joints". Ceramics International, 47 (12), pp. 17400-17410, 2021, **@2021** Линк **1.000**

784. Li, S.W., Shi, J.M., Xiong, J.T., Peng, Y., Ren, J., Zhang, F.S., Li, J. "Microstructural characteristics and mechanical properties of WC-Co/steel joints diffusion bonded utilizing Ni interlayer", Ceramics International, 47, 4, 15, 4446-4454, 2021, **@2021** Линк **1.000**

785. Sharma, N.K., Kannan, R., Hogan, J., Fisher, G., Li, L. "Progress in Improving Joint Strength of Brazed Cemented Carbides and Steels" Science and Technology of Welding and Joining, 26 (5), pp. 420-437, 2021., **@2021** Линк **1.000**

786. Yin, X., Ma, Q., Cui, B., Zhang, L., Xue, X., Zhong, S., Xu, D. "Current Review on the Research Status of Cemented Carbide Brazing: Filler Materials and Mechanical Properties". Metals and Materials International, 27 (4), pp. 571-583, 2021., **@2021** Линк **1.000**

276. **Karamanov, A.**, Dzhantov, B., Paganelli, M., Sighinolfi, D.. Glass transition temperature and activation energy of sintering by optical dilatometry. Thermochimica Acta, 553, 2013, ISSN:406031, DOI:10.1016/j.tca.2012.10.006, 1-7. SJR:0.4, ISI IF:1

Цитира се в:

787. Ahmadi, S., Eftekhari Yekta, B., Sarpoolaky, H., & Aghaei, A. (2021). Physical and structural characteristics of gel-derived glasses prepared via different drying procedures. Iranian Journal of Materials Science and Engineering, 18(4), 1-9., **@2021** **1.000**

277. **Piroeva, I.**, **Atanassova-Vladimirova, S.**, Dimowa, L., Sbirkova, H., Radoslavov, G., Hristov, P., Shivachev, B.L.. A simple and rapid scanning electron microscope preparative technique for observation of biological samples: Application on bacteria and DNA samples. Bulgarian Chemical Communications, 45, 4, Bulgarian Academy of Sciences, 2013, ISSN:8619808, 510-515. ISI IF:0.349

Цитира се в:

788. Gut, A. M., Vasiljevic, T. , Yeager, T. , Donkor, . O. N. "Anti-salmonella properties of kefir yeast isolates: An in vitro screening for potential infection control", Saudi Journal of Biological Sciences, 2021, **@2021** Линк **1.000**

789. Pedro H.G. Guedes, Jessica G. Brussasco, Anna C.R. Moco, Dayane D. Moraes, Jose M.R. Flauzino, Luiz F.G. Luz, Margarete T.G. Almeida, MarciaM.C.N.Soares, RonaldoJ. Oliveira, Joao M. Madurro, Ana G. Brito-Madurro. "Ninhydrin as a novel DNA hybridization indicator applied to a highly reusable electrochemical genosensor for Candida auris", Talanta, 235, 122694, 2021, **@2021** Линк **1.000**

790. Tabatabaeei, N. T. , Soudi, M. R., Tajer-Mohammad-Ghazvini, Nasr, S. , Bahrami-Bavani, M."Investigating Mercury Interactions of Rhodotorula Toruloides IR-1395 for Mercury Bioremediation Processes in Aquatic Environments". Biological Journal of Microorganism, 10, 37 , 25-36, 2021, **@2021** Линк **1.000**

791. Tavakoli, H.Z., Bahrami-Bavani, M., Miyanmahaleh, Y., Tajer-Mohammad-Ghazvini, P. "Identification and characterization of a metal-resistant Acidithiobacillus ferrooxidans as important potential application for bioleaching". Biologia volume 76, pages1327–1337 2021., **@2021** Линк **1.000**

278. **Stoychev, D.**. Corrosion protective ability of electrodeposited ceria layers. Journal of Solid State Electrochemistry, 17, 2, 2013, ISSN:14328488, DOI:10.1007/s10008-012-1937-7, 497-509

Цитира се в:

792. Protsenko, V.S., Danilov, F.I., Electrochemical Synthesis of Titania-Containing Composites with a Metallic Matrix for Photochemical Degradation of Organic Pollutants in Wastewater, Environmental Footprints and Eco-Design of Products and Processes pp. 303-323, Chapter First Online: 04 December 2021 DOI https://doi.org/10.1007/978-981-16-5928-7 Hardcover ISBN 978-981-16-5927-0, **@2021** Линк **1.000**

793. Qu, Y., Yu, X., Xie, G., (...), Yang, Y., Li, Y., Electrochemical Properties of Ce(OH)3 Coating Zn-Al-LDHs in Zn-Ni Secondary Battery | [Ce(OH)3包覆Zn-Al-LDHs在Zn-Ni二次电池中的电化学性能], 2021 Cailiao Daobao/Materials Reports 35(18), pp. 18007-18011, https://doi.org/10.11896/cldb.20050107, 2021, **@2021** **1.000**

794. Renforcement de la résistance à la corrosion marine du revêtement CeO2 par dépôt calcomagnésien, calcaire et magnésien : Synthèse, caractérisations et tests de corrosion en eau de mer artificielle, These, Kahina Aggoun LaSIE - Laboratoire des Sciences de l'Ingénieur pour l'Environnement - UMR 7356 Université de La Rochelle; Université Abderrahmane Mira - Bejaïa (Bejaïa, Algérie), https://tel.archives-ouvertes.fr/tel-03284019 Submitted on : Monday, July 12, 2021 - 12:21:10 PM Last modification on : Wednesday, November 3, 2021 - 8:41:36 AM Long-term archiving on: : Wednesday, October 13, 2021 - 6:45:21 PM, **@2021** **1.000**

279. Javadi, A., Mucic, N., Karbashi, M., Won, J.Y., Lotfi, M., Dan, A., **Gochev, G.**, Makievski, A.V., Kovalchuk, V.I., Kovalchuk, N.M., Kragel, J., Miller, R.. Characterization methods for liquid interfacial layers. The European Physical Journal Special Topics, 222, Springer, 2013, 7-29. ISI IF:1.417

Цитира се в:

795. Ashoorian, S., Javadi, A., Hosseinpour, N., & Husein, M. (2021). Evolution of adsorbed layers of asphaltenes at oil-water interfaces: A novel experimental protocol. Journal of Colloid and Interface Science, 594, 80-91. doi:10.1016/j.jcis.2021.02.123, **@2021** Линк **1.000**

796. Garrido, P. F., Bastos, M., Velázquez-Campoy, A., Dumas, P., & Piñeiro, Á. (2021). Fluid interface calorimetry. Journal of Colloid and Interface Science, 596, 119-129. doi:10.1016/j.jcis.2021.03.098, **@2021** Линк **1.000**

280. J. L. A. Dubbeldam, V. G. Rostiashvili, **A. Milchev**, T. A. Vilgis. Driven translocation of a polymer: Fluctuations at work.. 2013

Цитира се в:

797. Chen, J., Chen, X., Sun, L.-Z., Xu, X.-J., Luo, M.-B. " Translocation of a looped polymer threading through a nanopore". Soft Matter, 17 (16), pp. 4342-4351, 2021, **@2021** Линк **1.000**

798. Chen, K., Jou, I., Ermann, N., Muthukumar, M., Keyser, U.F., Bell, N.A.W. "Dynamics of driven polymer transport through a nanopore". Nature Physics, **1.000**

17 (9), pp. 1043-1049, 2021, **@2021** Линк

2014

281. Won J.Y., Kragel J., **Gochev G.**, Ulaganathan V., Javadi A., Makievski A.V., Miller R.. Bubble-bubble interaction in aqueous β-Lactoglobulin solutions.. Foods Hydrocolloids, 34, Elsevier, 2014, ISSN:0268-005X, 15-21. JCR-IF (Web of Science):7.053

Цитира се в:

799. Ami Ahmadi, H., Ebadi, A., & Hosseinalipour, S. M. (2021). Experimental study of bubble-droplet interaction in water; the effect of water salinity on the drainage time. Journal of Dispersion Science and Technology, doi:10.1080/01932691.2021.1930037, **@2021** Линк **1.000**

282. **Kamburova K.**, **Milkova V.**, **Radeva T.**. Polyelectrolyte coatings on hematite nanoparticles impregnated with corrosion inhibitor benzotriazole. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 462, 2014, 237-243. JCR-IF (Web of Science):2.752

Цитира се в:

800. Ardakani, E.K., Kowsari, E., Ehsani, A., Ramakrishna, S., Performance of all ionic liquids as the eco-friendly and sustainable compounds in inhibiting corrosion in various media: A comprehensive review, Microchemical Journal, 165, art. no. 106049 (2021), **@2021** Линк **1.000**

801. Lei, Y., Yu, P., Peng, H., Luan, Z., Deng, S., Wang, S., Zhou, N., Water-based & eco-friendly & high-efficiency 3, 4, 5-Trihydroxybenzoic acid ester as a novel rust conversion agent and its polymer composites for enhanced surface anticorrosion, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 626, art. no. 127065 (2021), **@2021** Линк **1.000**

802. Ni, L., Li, S., Liu, Y., Jiang, X., Cai, P., Feng, L., Zhang, S., Gao, X., Fabrication of active corrosion protection waterborne polyurethane coatings using cerium modified palygorskite nanocontainers, Journal of Applied Polymer Science, 138 (36), art. no. 50899 (2021), **@2021** Линк **1.000**

803. Souto, Ricardo Manuel; Santana, Juan José; Mena, Víctor; Betancor-Abreu, A.; Rodríguez Raposo, Raquel; Izquierdo Pérez, Javier, Use of alumina sludge arising from an electrocoagulation process as functional mesoporous microcapsules for active corrosion protection of aluminum, (2021)., **@2021** Линк **1.000**

283. **Gochev, G.**, Retzlaff, I., Exerowa, D., Miller, R.. Electrostatic stabilization of foam films from β-lactoglobulin solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2013.12.037, 272-279. JCR-IF (Web of Science):2.829

Цитира се в:

804. Amagliani, L., Silva, J. V. C., Saffon, M., & Dombrowski, J. (2021). On the foaming properties of plant proteins: Current status and future opportunities. Trends in Food Science and Technology, 118, 261-272. doi:10.1016/j.tifs.2021.10.001, **@2021** Линк **1.000**

805. Janssen, F., Wouters, A. G. B., Chatzigiannakis, E., Delcour, J. A., & Vermant, J. (2021). Thin film drainage dynamics of wheat and rye dough liquors and oat batter liquor. Food Hydrocolloids, 116 doi:10.1016/j.foodhyd.2021.106624, **@2021** Линк **1.000**

806. Ning, B., Wang, Y., Zhang, M., Bai, Y., Wang, W., & Wang, G. (2021). Surface adsorption and foam performance of sodium perfluoroalkyl polyoxyethylene ether sulfate in ethanol-water mixed system. Journal of Molecular Liquids, 337 doi:10.1016/j.molliq.2021.116393, **@2021** Линк **1.000**

807. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

284. **Milkova, V.**, **Kamburova, K.**, **Radeva, T.**. Electro-optics of polyelectrolyte multilayers on colloidal particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2013.12.017, 502-509. ISI IF:2.829

Цитира се в:

808. Abbett, R.L., Tigaa, R.A., Sonawane, S.L., Strouse, G.F., Schlenoff, J.B., Hydrophobic Versus Hydrophilic Polyelectrolyte Multilayers for Emissive Europium Films, ACS Applied Polymer Materials, 3 (2), 691-698 (2021), **@2021** Линк **1.000**

285. **Georgieva, J**, Sotiropoulos, S, **Valova, E**, **Armyanov, S**, Karanasios, N. Methanol oxidation and photo-oxidation at Pt/WO3 electrocatalysts on graphite substrates. Journal of Electroanalytical Chemistry, 727, Elsevier, 2014, ISSN:15726657, DOI:10.1016/j.jelechem.2014.06.011, 135-140. ISI IF:2.729

Цитира се в:

809. Bera K. K., Chakraborty M., Bera S. K., Mandal M., Chatterjee S., Bhattacharya S. K., "Synthesis of Different Pt-ZnO Binary Composites for Synergistic Photo-Electrocatalytic Oxidation of Methanol in Alkali", ChemistrySelect, 6586-6596 (2021), **@2021** Линк **1.000**

810. Can, F., Courtois, X., Duprez, D., "Tungsten-Based Catalysts for Environmental Applications". Catalysts, 11, 703 p.78 (2021), **@2021** Линк **1.000**

811. Liu J., Fan C., Xie X., Jiang L., "Recent Progress on Photo-Promoted Alcohol Electro-Oxidation for Fuel Cells", Energy Technology, 9, 2000842 (2021), **@2021** Линк **1.000**

812. Wang G., Xie X., Cui X., Liu J., Jiang L., "Photoinduced Pt/BiVO4/Bi2O3 Heterostructures for Methanol Oxidation and New Insights on the Photo-/Electrocatalysis Coupling Mechanism" ACS Sustainable Chem. Eng., 9, 4271–4281 (2021), **@2021** Линк **1.000**

286. Sarabadani, J., **Milchev, A.**, Vilgis, T.A.. Structure and dynamics of polymer melt confined between two solid surfaces: A molecular dynamics study. Journal of Chemical Physics, 141, 4, American Institute of Physics Inc., 2014, ISSN:219606, DOI:10.1063/1.4890820

Цитира се в:

813. Monnier, X., Colmenero, J., Wolf, M., Cangialosi, D. "Reaching the Ideal Glass in Polymer Spheres: Thermodynamics and Vibrational Density of States". Physical Review Letters, 126 (11), art. no. 118004, 2021, **@2021** Линк **1.000**

814. Wang, F., Jiang, Z., Lin, X., Zhang, C., Tanaka, K., Zuo, B., Zhang, W., Wang, X. "Suppressed Chain Entanglement Induced by Thickness of Ultrathin Polystyrene Films". Macromolecules, 54 (8), pp. 3735-3743, 2021, **@2021** Линк **1.000**

287. Geboes, B, Mintsouli, I, Wouters, B, **Georgieva, J**, Kakaroglou, A, Sotiropoulos, S, **Valova, E**, **Armyanov, S**, Hubin, A, Breugelmans, T. Surface and electrochemical characterisation of a Pt-Cu/C nano-structured electrocatalyst, prepared by galvanic displacement. Applied Catalysis B: Environmental, 150-151, 2014, ISSN:9263373, DOI:10.1016/j.apcatb.2013.12.020, 249-256. SJR:2.088, ISI IF:7.435

Цитира се в:

815. Garcia-Cardona, J., Alcaide, F., Brillas, E, Sirés, I., Cabot, P.L., Testing PtCu Nanoparticles Supported on Highly Ordered Mesoporous Carbons CMK3 and CMK8 as Catalysts for Low-Temperature Fuel Cells", Catalysts, 11, 724 (2021)., **@2021** Линк **1.000**

816. Shim Y.-J., Jung W. S., "Recent Studies on Bimetallic Pt–M Catalyst for the Oxygen Reduction Reaction in Polymer Electrolyte Membrane Fuel Cells", J. Korean Insti. of Metals & Materials, 59, 741-752 (2021), **@2021** Линк **1.000**

817. Wang N., Zhao W., Zhang M., Cao P., Sun S.-j., Ma H., Lin M., "Bismuth-induced synthesis of Au-X (X = Pt, Pd) nanoalloys for electrocatalytic reactions", Chem. Communic., 57, 391-394, (2021), , **@2021** Линк **1.000**

818. Zeng L., Luo J., Mao G., Wu D., Li R., Huang L., Wang D., Zhou Q., Sun T., Xiao F., Tang R., Boosted hydrogen evolution in alkaline media enabled by a facile oxidation-involving surface modification, Electrochim. Acta, 398, 139337, (2021), **@2021** Линк **1.000**

819. Zhao, Y., Liu, R., "Cu@Pt/NCNT preparation and electrochemical performance", J Mater Sci: Mater Electron., 32, 4214–4227 (2021), **@2021** Линк **1.000**

288. **Arabadzhieva, D.**, **Tchoukov, P.**, Soklev, B., **Mileva, E.**. Interfacial layer properties and foam film drainage kinetics of aqueous solutions of hexadecyltrimethylammonium chloride. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2014.04.053, 28-37. SJR (Scopus):0.753, JCR-IF (Web of Science):2.829

Цитира се в:

820. Le, T. T. Y., Tsay, R. Y., & Lin, S. Y. "A study on the dynamic surface tension of surfactant solutions at dilute concentrations" Journal of Molecular Liquids, 2021, 324, 115112 https://doi.org/10.1016/j.molliq.2020.115112, **@2021** Линк **1.000**

289. **Karamanov, A.**, Maccarini Schabbach, L., **Karamanova, E.**, Andreola, F., Barbieri, L., **Ranguelov, B.**, **Avdeev, G.**, Lancellotti, I.. Sinter-crystallization in air and inert atmospheres of a glass from pre-treated municipal solid waste bottom ashes. Journal of Non-Crystalline Solids, 389, 2014, ISSN:223093, DOI:10.1016/j.jnoncrysol.2014.02.009, 50-59. SJR:0.6, ISI IF:2

Цитира се в:

821. Li, X., Wang, P., Guo, Z., Qin, J., Liang, K. 'Effect of Fe2+/Fe3+ on high-strength ceramsite prepared by sintering geopolymers using iron ore tailings". Ceramics International, 2021, **@2021** Линк **1.000**

822. Pavkov, V., Bakić, G., Maksimović, V., Cvijović-Alagić, I., Đorđević, M. P., Bučevac, D., & Matović, B. (2021). High-Density Ceramics Obtained By Andesite Basalt Sintering.https://doi.org/10.21203/rs.3.rs-827727/v1, **@2021** **1.000**

290. **Lyutov, V.**, Efimov, I., Bund, A., **Tsakova, V.**. Electrochemical polymerization of 3,4-ethylenedioxythiophene in the presence of dodecylsulfate and polysulfonic anions - An acoustic impedance study. Electrochimica Acta, 122, 2014, ISSN:134686, DOI:10.1016/j.electacta.2013.09.076, 21-27. SJR:1.439, ISI IF:5.11

Цитира се в:

823. Gribkova, O., Kabanova, V., Tverskoy, V., Nekrasov, A., "Comparison of Optical Ammonia-Sensing Properties of Conducting Polymer Complexes with Polysulfonic Acids", Chemosensors, 9(8), 206, 2021, **@2021** Линк **1.000**

824. Mocaer, A., Pillier, F., A. Pailleret , A., " Switching of the ion exchange behaviour of PEDOT thin films duringa potential cycling: an electrochemical atomic force microscopy study", Electrochim. Acta, 2021, **@2021** Линк **1.000**

825. Stenina, I.A., Yurova, P.A., Titova, T.S., Yaroslavtsev, A.B., "The influence of poly(3, 4-ethylenedioxythiophene) modification on the transport properties and fuel cell performance of Nafion-117 membranes", J. Appl. Polym Sci. 138 (27), 50644, 2021, **@2021** **1.000**

826. V. Kabanova, V., O. Gribkova, O., A. Nekrasov, A., " Poly(3, 4-ethylenedioxythiophene) Electrosynthesis in the Presence of Mixtures of Flexible-Chain and Rigid-Chain Polyelectrolytes", Polymers 13(22), 3866, 2021, **@2021** Линк **1.000**

291. **Goranova, D.**, **Avdeev, G.**, **Rashkov, R.**. Electrodeposition and characterization of Ni-Cu alloys. Surface and Coatings Technology, 240, 2014, ISSN:2578972, DOI:10.1016/j.surfcoat.2013.12.014, 204-210

Цитира се в:

827. Geramipour, F., Mousavi Khoei, S.M., Shooshtari Gugtapeh, H., Effect of shaped waveform on structure and electrochemical corrosion behavior of pulse electrodeposited Ni[sbnd]Cu alloy coatings, (2021) Surface and Coatings Technology, 424, art. no. 127643., **@2021** Линк **1.000**

828. Kobayashi, T., Shohji, I., Fabrication of three-dimensional microstructure film by Ni-Cu alloy electrodeposition for joining dissimilar materials, (2021) Materials Science Forum, 1016 MSF, pp. 738-743., **@2021** Линк **1.000**

829. Kobayashi, T., Shohji, I., Joining process of dissimilar materials using three-dimensional electrodeposited Ni-Cu film, (2021) Materials and Manufacturing Processes, 36 (9), pp. 1076-1083., **@2021** Линк **1.000**

830. Li, W., Feng, M., Liu, X., Yang, J., Improvement of Copper Oxides-coated Ultra-high Molecular Weight Polyethylene Fibers Reinforced Rigid Polyurethane Composites in Strength and Toughness, (2021) Fibers and Polymers, 22 (7), pp. 1883-1888., **@2021** Линк **1.000**

831. Pingale, A.D., Owhal, A., Katarkar, A.S., Belgamwar, S.U., Rathore, J.S., Recent researches on Cu-Ni alloy matrix composites through electrodeposition and powder metallurgy methods: A review, (2021) Materials Today: Proceedings, 47, pp. 3301-3308., **@2021** Линк **1.000**

832. Safavi, M.S., Fathi, M., Mirzazadeh, S., Ansarian, A., Ahadzadeh, I., Perspectives in corrosion-performance of Ni–Cu coatings by adding Y2O3 nanoparticles (2021) Surface Engineering, 37 (2), pp. 226-235., **@2021** Линк **1.000**

833. Saraç, U., Baykul, M.C., Studying structural, magnetic and morphological features of electrochemically fabricated thin films of Co–Ni–Fe with different Fe compositions (2021) Thin Solid Films, 736, art. no. 138901., **@2021** Линк **1.000**

292. Radoeva, M., **Monev, M.**, Ivanov, I.T., Georgiev, G.S., Radoev, B.. Adhesion improvement of electroless copper coatings by polymer additives. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2014.02.003, 441-447

Цитира се в:

834. Kumraran, D., "Design, development and mechanical characterization of polymer reinforced metal matrix composites", Thesis for: PhD, Faculty of mechanical engineering, Anna university, Chennai, 600 025, August 2021, **@2021** **1.000**

293. **Georgieva, J**, **Valova, E**, Mintsouli, I, Sotiropoulos, S, **Armyanov, S**, Kakaroglou, A, Hubin, A, Steenhaut, O, Dille, J. Carbon-supported Pt(Cu) electrocatalysts for methanol oxidation prepared by Cu electroless deposition and its galvanic replacement by Pt. Journal of Applied Electrochemistry, 44, 2, 2014, ISSN:0021891X, DOI:10.1007/s10800-013-0618-2, 215-224. ISI IF:2.409

Цитира се в:

835. Garcia-Cardona, J., Alcaide, F., Brillas, E, Sirés, I., Cabot, P.L., Testing PtCu Nanoparticles Supported on Highly Ordered Mesoporous Carbons CMK3 and CMK8 as Catalysts for Low-Temperature Fuel Cells", Catalysts, 11, 724 (2021), **@2021** Линк **1.000**

294. **Terziyski, I.**, **Alexandrova, L.**, Stoineva, I., Christova, N., **Todorov, R.**, Cohen, R.. Foam and wetting films from rhamnolipids produced by Pseudomonas aeruginosa BN10. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 460, Elsevier, 2014, ISSN:9277757, DOI:10.1016/j.colsurfa.2013.12.075, 299-305. JCR-IF (Web of Science):2.752

Цитира се в:

836. Baccile N., Seyrig C., Poirier A., Alonso-De Castro S., Roelants S.L.K.W., Abel, S., Self-assembly, interfacial properties, interactions with macromolecules and molecular modelling and simulation of microbial bio-based amphiphiles (biosurfactants)., A tutorial review, Open Access, Green Chemistry, 23(11), pp. 3842-3944, DOI: 10.1039/d1gc00097g (2021), **@2021** Линк **1.000**

837. Ekpenyong, M., Asitok, A., Antai, S., Ekpo B., Antigha, R., Ogarekpe, N., Statistical and Artificial Neural Network Approaches to Modeling and Optimization of Fermentation Conditions for Production of a Surface/Bioactive Glyco-lipo-peptide (Open Access), International Journal of Peptide Research and Therapeutics, 27(1), pp. 475-495, (2021), **@2021** Линк **1.000**

295. **Milchev A.**. Observation of a tricritical wedge filling transition in the 3D Ising model. EPL, 108, 2, 2014, 26003

Цитира се в:

838. López-Castaño, M.A., González-Saavedra, J.F., Rodríguez-Rivas, A., Abad, E., Yuste, S.B., Vega Reyes, F. "Pseudo-two-dimensional dynamics in a system of macroscopic rolling spheres". Physical Review E, 103 (4), art. no. 042903, 2021, **@2021** Линк **1.000**

296. Raghuwanshi, V.S., Harizanova, R., Haas, S., **Tatchev, D.**, Gugov, I., Dewhurst, C., R?ssel, C., Hoell, A.. Magnetic nanocrystals embedded in silicate glasses studied by polarized SANS. Journal of Non-Crystalline Solids, 385, 2014, ISSN:223093, DOI:10.1016/j.jnoncrysol.2013.10.007, 24-29

Цитира се в:

839. Kovalchuk, M.V., Voronin, V.V., Grigoriev, S.V., Serebrov, A.P. "Instrument Base of the Reactor PIK" (2021) Crystallography Reports, 66 (2), pp. 195-215., **@2021** Линк **1.000**

840. Michels, A. "Magnetic small-angle neutron scattering: A probe for mesoscale magnetism analysis" (2021) Magnetic Small-Angle Neutron Scattering: A Probe for Mesoscale Magnetism Analysis, pp. 1-357, **@2021** Линк **1.000**

297. Zidek, J., Jancar, J., **Milchev, A.**, Vilgis, TA.. Mechanical Response of Hybrid Cross-Linked Networks to Uniaxial Deformation: A Molecular Dynamics Model. Macromolecules, 47, 24, 2014, 8795-8807. ISI IF:5.835

Цитира се в:

841. Lei, J., Li, Z., Xu, S., Liu, Z. "Recent advances of hydrogel network models for studies on mechanical behaviors". Acta Mechanica Sinica/Lixue Xuebao 37(3), pp. 367-386, 2021, **@2021** Линк **1.000**

298. Sarabadani, J., **Milchev, A.**, De Virgiliis, A., Vilgis, T.A.. Molecular dynamic study of the structure and dynamics of polymer melt at solid surfaces. Soft Materials, 12, Taylor and Francis Inc., 2014, ISSN:1539445X, DOI:10.1080/1539445X.2014.957833, S56-S70

Цитира се в:

842. Bačová, P., Li, W., Behbahani, A.F., Burkhart, C., Polińska, P., Doxastakis, M., Harmandaris, V. "Coupling between polymer conformations and dynamics near amorphous silica surfaces: A direct insight from atomistic simulations". Nanomaterials, 11 (8), art. no. 2075, 2021, **@2021** Линк **1.000**

299. **Stoychev, D.**, Dobreva, E., Razkazov, N., Stoycheva, M., Koteva, N.. Electroless deposition of composite Co-P-diamond layers and their polishing properties. Bulgarian Chemical Communications, 46, 2, Bulgarian Academy of Sciences, 2014, ISSN:0324-1130, 283-293. SJR:0.156, ISI IF:0.349

Цитира се в:

843. Moon, K., Seo, J., Yoo, B., Synthesis of NiWP coated diamonds particles with enhanced mechanical and anti-corrosion property for diamond wires of the sawing process, 2021 International Journal of Refractory Metals and Hard Materials 100, 105627 https://doi.org/10.1016/j.ijrmhm.2021.105627, **@2021** **1.000**

300. **Alexander Karamanov**. Vitrification and Sinter-Crystallization of Iron-Rich Industrial Wastes. Adv. Sci. Technol., 92, 2014, 174-183

Цитира се в:

844. de Lima, L. F., Perottoni, C. A., Zorzi, J. E., & Cruz, R. C. D. (2021). Effect of iron on the microstructure of basalt glass-ceramics obtained by the petrurgic method. International Journal of Applied Ceramic Technology, 18(6), 1950-1959., **@2021** **1.000**

845. Pavkov, V., Bakić, G., Maksimović, V., Cvijović-Alagić, I., Đorđević, M. P., Bučevac, D., & Matović, B. (2021). High-Density Ceramics Obtained By Andesite Basalt Sintering., **@2021** **1.000**

301. AlZahrani, A, Alhamed, Y, Petrov, L, **Armyanov, S**, **Valova, E**, **Georgieva, J**, Dille, J. Mechanical and Corrosion Behavior of Amorphous and Crystalline Electroless Ni-W-P Coatings. Journal of Solid State Electrochemistry, 18, 7, Springer, 2014, ISSN:ISSN 1432-8488, DOI:10.1007/s10008-014-2437-8, 1951-1961. ISI IF:2.327

Цитира се в:

846. Hanachi, M., Seyedraoufi, Z.S., Samiee, M. Shajari Y., "Effect of Phosphorus Content and Heat Treatment Temperature on Microstructure and Corrosion Resistance of Ni–(X)P–GO Nanocomposite Coating on AZ31D Alloy", J. Bio Tribo Corros., 7, 30 (2021)., **@2021** Линк **1.000**

302. Atanasov, P. A., Nedyalkov N. N., **Valova E. I.**, **Georgieva Z. S.**, **Armyanov S. A.**, Kolev K. N., Amoruso S., Wang X ., Bruzzese R., Sawczak M., Sliwinski G.. Fs-laser processing of polydimethylsiloxane. Journal of Applied Physics, 116, American Institute of Physics, 2014, ISSN:0021-8979, 023104-1-023104-4

Цитира се в:

847. Hayashi S., Morosawa F., Terakawa M., "Laser Direct Writing of Highly Crystalline Graphene on PDMS for Fingertip-Sized Piezoelectric Sensors", Advanced Engineering Materials, 23, 2100457 (2021), **@2021** Линк **1.000**

303. Won, J.Y., Kragel, J., Makievski, A.V., Javadi, A., **Gochev, G.**, Loglio, G., Pandolfini, P., Leser, M.E., Gehin-Delval, C., Miller, R.. Drop and bubble micro manipulator (DBMM)-A unique tool for mimicking processes in foams and emulsions. Colloids and Surfaces A, 441, 2014, 807-814. JCR-IF (Web of Science):2.76

Цитира се в:

848. Ami Ahmadi, H., Ebadi, A., & Hosseinalipour, S. M. (2021). Experimental study of bubble-droplet interaction in water; the effect of water salinity on the drainage time. Journal of Dispersion Science and Technology, doi:10.1080/01932691.2021.1930037, **@2021** Линк **1.000**

849. Kaysan, G., Rica, A., Guthausen, G., & Kind, M. (2021). Contact-mediated nucleation of subcooled droplets in melt emulsions: A microfluidic approach. Crystals, 11(12) doi:10.3390/cryst11121471, **@2021** Линк **1.000**

850. Leister, N., & Karbstein, H. P. (2021). Influence of hydrophilic surfactants on the W1-W2 coalescence in double emulsion systems investigated by single droplet experiments. Colloids and Interfaces, 5(2) doi:10.3390/colloids5020021, **@2021** Линк **1.000**

851. Li, K., Wang, W., Xiao, F., Ge, Y., Jin, H., Yu, Z., Gong, J., Gao, W., Peng, Z. (2021). Atomic force microscopy study of non-DLVO interactions between drops and bubbles. Langmuir, 37(22), 6830-6837. doi:10.1021/acs.langmuir.1c00937, **@2021** Линк **1.000**

304. **Gutzow, I.**, **Pascova, R.**, **Jordanov, N.**, Gutzow, S., Penkov, I., Markovska, I., Schmelzer, J.W.P, Ludwig, F.P.. Crystalline and Amorphous Modifications of Silica: Structure, Thermodynamic Properties, Solubility and Synthesis, in: Glass: Selected Properties and Crystallization. De Gruyter, 2014, ISBN:978-3-11030781-8, 137-196

Цитира се в:

852. Hasegawa, I., Mechanism for Local Corrosion of Solid B2O3 at Water–Gallium Interface Induced by Branched Flow, Materials Transactions 62.3 (2021) 427-435. ISSN: 1345-9678, **@2021** **1.000**

853. Schick, C., Mukhametzyanov, T., A., Solomonov, B., N., Fast Scanning Calorimetry of Organic Materials from Low Molecular Mass Materials to Polymers, Reviews and Advances in Chemistry 11.1 (2021) 1-72. ISSN: 2634-8276, **@2021** **1.000**

854. Todorova, T. Z., D. Boyd, Thermal and elastic properties of binary and ternary high borate glass networks from first-principles methods, Journal of Non-Crystalline Solids 571 (2021) 121059. ISSN: 0022-3093, **@2021** **1.000**

2015

305. **Tsakova, V.**, Ilieva, G., Filjova, D.. Role of the anionic dopant of poly(3,4-ethylenedioxythiophene) for the electroanalytical performance: Electrooxidation of acetaminophen. Electrochimica Acta, 179, Elsevier Ltd, 2015, ISSN:134686, DOI:10.1016/j.electacta.2015.02.062, 343-349. ISI IF:4.504

Цитира се в:

855. Kabanova, V., Gribkova, O., Nekrasov, A., " Poly(3, 4-ethylenedioxythiophene) Electrosynthesis in the Presence of Mixtures of Flexible-Chain and Rigid-Chain Polyelectrolytes", Polymers, 13(22), 3866, 2021, **@2021** Линк **1.000**

856. Salehzadeh, H., " Tunable oxidative release of N-acetyl-p-benzoquinone-imineandacetamide from electrochemically deriveds ub-monolayer acetaminophen modified glassy carbon electrode", J. Electroanal. Chem. 880, 114845, 2021, **@2021** **1.000**

857. Wong, A., Santos, A.M., da Fonseca Alves, R., Fatibello-Filho, O., Del Pilar Taboada Sotomayor, M., "Simultaneous determination of direct yellow 50, tryptophan, carbendazim, and caffeine in environmental and biological fluid samples using graphite pencil electrode modified with palladium nanoparticles", Talanta 222, 121539, 2021, **@2021** **1.000**

306. **Armyanov, S**, Stankova, N.E, Atanasov, P.A, **Valova, E**, Kolev, K, **Georgieva, J**, Steenhaut, O, Baert, K, Hubin, A. XPS and μ-Raman study of nanosecond-laser processing of poly(dimethylsiloxane) (PDMS). Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, 360, Elsevier, 2015, ISSN:0168583X, DOI:10.1016/j.nimb.2015.07.134, 30-35. SJR:0.691, ISI IF:1.389

Цитира се в:

858. Aymes-Chodur C., Salmi-Mani H., Dragoe D., Aubry-Barroca N., Buchotte M., Roger P., "Optimization of microwave plasma treatment conditions on polydimethylsiloxane films for further surface functionalization" European Polymer J., 150, 110416 (2021), **@2021** Линк **1.000**

859. Chen G.-S., . Gao W.-L, Chang C.-C., Fang J.-S., Cheng Y.-L., "Synergy of mercaptosilane monolayer embedding and extremely dilute cobalt alloying for metallization of copper without a conventional metallic barrier", Materials Chem. & Phys., 259, 124034 (2021), **@2021** Линк **1.000**

860. Li K., Wang Y., Wang X., Zhang X., Zhang J., Xie H., Zhang A., "Superhydrophobic magnesium oxychloride cement based composites with integral stability and recyclability", Cement and Concrete Composites, 118, 103973 (2021), **@2021** Линк **1.000**

861. Razavi, M., Primavera, R., Vykunta, A., Thakor, A.S. "Silicone-based bioscaffolds for cellular therapies(Review)", Mater. Sci. & Engineering C, 119, Art. # 111615 (2021), **@2021** Линк **1.000**

862. Tseng S.-J., Cheng C.-H., Lee T.-M., Lin J.-C., "Studies of osteoblast-like MG-63 cellular proliferation and differentiation with cyclic stretching cell culture system on biomimetic hydrophilic layers modified polydimethylsiloxane substrate", Biochemical Engineering Journal, 168, 107946 (2021), **@2021** Линк **1.000**

863. Wei D., Wang J., Li S., Liu Y., Wang D., Wang H., "Novel corrosion-resistant behaviorand mechanism of a biomimetic surface with switchable wettability on Mg alloy", Chem. Engin. J. 425, 130450 (2021), **@2021** Линк **1.000**

307. **Dimitrov, I.L.**, **Hodzhaoglu, F.V.**, **Koleva, D.P.**. Probabilistic approach to lysozyme crystal nucleation kinetics. Journal of Biological Physics, 41, 4, Kluwer Academic Publishers, 2015, ISSN:920606, DOI:10.1007/s10867-015-9381-4, 327-338. SJR:0.615, ISI IF:1.286

Цитира се в:

864. Nooraiepour, Mohammad, Masoudi, Mohammad, Shokri, Nima, Hellevang, Helge. "Probabilistic Nucleation and Crystal Growth in Porous Medium: New Insights from Calcium Carbonate Precipitation on Primary and Secondary Substrates". ACS Omega 6, 2021, 28072–28083, **@2021** **1.000**

308. Dukhin, S.S., Kovalchuk, V.I., **Gochev, G.G.**, Lotfi, M., Krzan, M., Malysa, K., Miller, R.. Dynamics of Rear Stagnant Cap formation at the surface of spherical bubbles rising in surfactant solutions at large Reynolds numbers under conditions of small Marangoni number and slow sorption kinetics. Advances in Colloid and Interface Science, 222, Elsevier, 2015, ISSN:18686, DOI:10.1016/j.cis.2014.10.002, 260-274. JCR-IF (Web of Science):7.346

Цитира се в:

865. Borkowski, M., & Zawala, J. (2021). Influence of temperature on rising bubble dynamics in water and n-pentanol solutions. Minerals, 11(10) doi:10.3390/min11101067, **@2021** Линк **1.000**

866. Crowdy, D. G. (2021). Exact solutions for the formation of stagnant caps of insoluble surfactant on a planar free surface. Journal of Engineering Mathematics, 131(1) doi:10.1007/s10665-021-10180-w, **@2021** Линк **1.000**

867. Eftekhari, M., Schwarzenberger, K., Heitkam, S., & Eckert, K. (2021). Interfacial flow of a surfactant-laden interface under asymmetric shear flow. Journal of Colloid and Interface Science, 599, 837-848. doi:10.1016/j.jcis.2021.04.126, **@2021** Линк **1.000**

868. Eftekhari, M., Schwarzenberger, K., Heitkam, S., Javadi, A., Bashkatov, A., Ata, S., & Eckert, K. (2021). Interfacial behavior of particle-laden bubbles under asymmetric shear flow. Langmuir, 37(45), 13244-13254. doi:10.1021/acs.langmuir.1c01814, **@2021** Линк **1.000**

869. Fadili, A., & Essadki, A. H. (2021). Flow pattern study, gas hold-up and gas liquid mass transfer correlations in a bubble column: Effect of non — coalescing water — organic mixtures. Korean Journal of Chemical Engineering, 38(5), 924-937. doi:10.1007/s11814-021-0743-2, **@2021** Линк **1.000**

870. Fayzi, P., Bastani, D., Lotfi, M., & Miller, R. (2021). Influence of surface-modified nanoparticles on the hydrodynamics of rising bubbles. Chemical Engineering and Technology, 44(3), 513-520. doi:10.1002/ceat.201900234, **@2021** Линк **1.000**

871. Hessenkemper, H., Ziegenhein, T., Lucas, D., & Tomiyama, A. (2021). Influence of surfactant contaminations on the lift force of ellipsoidal bubbles in water. International Journal of Multiphase Flow, 145 doi:10.1016/j.ijmultiphaseflow.2021.103833, **@2021** Линк **1.000**

872. Kovalchuk, N. M., & Simmons, M. J. H. (2021). Effect of surfactant dynamics on flow patterns inside drops moving in rectangular microfluidic channels. Colloids and Interfaces, 5(3) doi:10.3390/colloids5030040, **@2021** Линк **1.000**

873. Lorusso, V., Orsi, D., Salerni, F., Liggieri, L., Ravera, F., McMillin, R., . . . Cristofolini, L. (2021). Recent developments in emulsion characterization: Diffusing wave spectroscopy beyond average values. Advances in Colloid and Interface Science, 288 doi:10.1016/j.cis.2020.102341, **@2021** Линк **1.000**

874. Schulz, J. M., Petzold, M., Böhm, L., & Kraume, M. (2021). Fluid dynamics and mass transfer in technical grade liquid-liquid systems. part II: Impact of interfacial effects and impurities. [Tropfenbewegung und Stofftransport in technischen Flüssig/flüssig-Systemen. Teil 2: Auswirkung von Grenzflächeneffekten und Verunreinigungen] Chemie-Ingenieur-Technik, 93(8), 1214-1222. doi:10.1002/cite.202000247, **@2021** Линк **1.000**

875. Sharanya, V., Padmavati, B. S., & Raja Sekhar, G. P. (2021). Transient stokes flow past a spherical droplet with a stagnant cap due to contaminated surfactant layer. Theoretical and Computational Fluid Dynamics, 35(6), 783-806. doi:10.1007/s00162-021-00592-w, **@2021** Линк **1.000**

876. Straub, B. B., Schmidt, H., Rostami, P., Henrich, F., Rossi, M., Kähler, C. J., . . . Auernhammer, G. K. (2021). Flow profiles near receding three-phase contact lines: Influence of surfactants. Soft Matter, 17(44), 10090-10100. doi:10.1039/d1sm01145f, **@2021** Линк **1.000**

309. **Georgieva, J**, **Valova, E**, Mintsouli, I, Sotiropoulos, S, **Tatchev, D**, **Armyanov, S**, Hubin, A, Dille, J, Hoell, A, Raghuwanshi, V, Karanasios, N, Malet, L. Pt(Ni) electrocatalysts for methanol oxidation prepared by galvanic replacement on TiO2 and TiO2-C powder supports. Journal of Electroanalytical Chemistry, 754, Elsevier, 2015, ISSN:15726657, DOI:10.1016/j.jelechem.2015.07.001, 65-74. SJR:0.776, ISI IF:2.822

Цитира се в:

877. Abraham, B.G., Chetty, R., "Influence of electrodeposition techniques and parameters towards the deposition of Pt electrocatalysts for methanol oxidation", J. Appl. Electrochem., 51, 503-520 (2021), **@2021** Линк **1.000**

878. Mikrut P., Mitoraj D., Beranek R., Macyk W., „Facet-dependent activity of tailored anatase TiO2 crystals in photoanodes for photocatalytic fuel cells", Appl. Surf. Sci., 566, 150662 (2021), **@2021** Линк **1.000**

879. Sun, Yugang. „Anomalous small-angle X-ray scattering for materials chemistry", Trends in Chemistry, 3, 1045-1060 (2021), **@2021** Линк **1.000**

880. Xu Y., Jin W., Yu T., Wang F., Guo X., Wu Y., Ying Y., Wen Y., Yang H., "Pt/Ni Catalyst Supported by Composite of Graphene and Polyaniline Microtubes Boosting Methanol Electrochemical Oxidation", J. Electrochem. Soc., 168, 064513 (2021), **@2021** Линк **1.000**

310. Dan, A., **Gochev, G.**, Miller, R.. Tensiometry and dilational rheology of mixed β-lactoglobulin/ionic surfactant adsorption layers at water/air and water/hexane interfaces. Journal of Colloid and Interface Science, 449, Academic Press Inc., 2015, ISSN:219797, DOI:10.1016/j.jcis.2015.01.035, 383-391. ISI IF:7.776

Цитира се в:

881. Zhang, X., Zhang, S., Xie, F., Han, L., Li, L., Jiang, L., Qi, B., Li, Y. (2021). Soy/whey protein isolates: Interfacial properties and effects on the stability of oil-in-water emulsions. Journal of the Science of Food and Agriculture, 101(1), 262-271. doi:10.1002/jsfa.10638, **@2021** Линк **1.000**

882. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

311. **Hristova, S.H.**, **Zhivkov, A.M.**. Adsorption of cytochrome c on montmorillonite nanoplates: Protein concentration dependence. Journal of Colloid and Interface Science, 446, Elsevier, 2015, ISSN:0021-9797, DOI:10.1016/j.jcis.2015.01.039, 252-262. SJR:1.095, ISI IF:3.368

Цитира се в:

883. R. Akkaya, B. Akkaya, Cytochrome c adsorption in a continuous flow system by using Cu (II)-chelated magnetic affinity particles. Bangladesh Journal of Medical Science, 20 (2021) 159-163., **@2021** **1.000**

312. Ljatifi, E., Kamusheva, A., Grozdanov, A., Paunovi?, P., **Karamanov, A.**. Optimal thermal cycle for production of glass-ceramic based on wastes from ferronickel manufacture. Ceramics International, Elsevier Ltd, 2015, ISSN:2728842, DOI:10.1016/j.ceramint.2015.05.098, SJR (Scopus):0.7, JCR-IF (Web of Science):2.3

Цитира се в:

884. Shang, W., Peng, Z., Huang, Y., Gu, F., Zhang, J., Tang, H., ... & Jiang, T. (2021). Production of glass-ceramics from metallurgical slags. Journal of Cleaner Production, 317, 128220., **@2021** **1.000**

885. Shang, W., Peng, Z., Xu, F., Tang, H., Rao, M., Li, G., & Jiang, T. (2021). Preparation of enstatite-spinel based glass-ceramics by co-utilization of ferronickel slag and coal fly ash. Ceramics International, 47(20), 29400-29409., **@2021** **1.000**

886. Yang, J., Duan, X., Liu, L., Yang, H., & Jiang, X. (2021). Recovery of Magnesium from Ferronickel Slag to Prepare Magnesium Oxide by Sulfuric Acid Leaching. Minerals, 11(12), 1375., **@2021** **1.000**

313. **Gochev, G.**. Thin liquid films stabilized by polymers and polymer/surfactant mixtures. Current Opinion in Colloid and Interface Science, 20, 2, Elsevier Ltd, 2015, ISSN:13590294, DOI:10.1016/j.cocis.2015.03.003, 115-123. JCR-IF (Web of Science):5.785

Цитира се в:

887. Bi, W., Zhang, P., Du, X., Wei, L., Wang, S., Yang, T., . . . Ren, S. (2021). Stabilization of natural gas foams using different surfactants at high pressure and high temperature conditions. Journal of Surfactants and Detergents, doi:10.1002/jsde.12564, **@2021** Линк **1.000**

888. Chatzigiannakis, E., Jaensson, N., & Vermant, J. (2021). Thin liquid films: Where hydrodynamics, capillarity, surface stresses and intermolecular forces meet. Current Opinion in Colloid and Interface Science, 53 doi:10.1016/j.cocis.2021.101441, **@2021** Линк **1.000**

889. Xiao, Z., Jia, S., Bao, H., Niu, Y., Ke, Q., & Kou, X. (2021). Protection of agarwood essential oil aroma by nanocellulose-graft-polylactic acid. International Journal of Biological Macromolecules, 183, 743-752. doi:10.1016/j.ijbiomac.2021.04.097, **@2021** Линк **1.000**

314. Karanasios, N, **Georgieva, J**, **Valova, E**, **Armyanov, S**, Litsardakis, G, Sotiropoulos, S. Photoelectrocatalytic oxidation of organics under visible light illumination: A short review. Current Organic Chemistry, 19, 6, Bentham Science Publishers B.V., 2015, ISSN:13852728, DOI:10.2174/1385272819666150115000247, 512-520. ISI IF:1.949

Цитира се в:

890. Yurdakal S., Cetinkaya S., Ozcan L., Gök. Ö., Palmisano L., "Partial photoelectrocatalytic oxidation of 3-pyridinemethanol by Pt, Au and Pd loaded TiO2 nanotubes on Ti plate", Catalysis Today, 380, 248-258 (2021), **@2021** Линк **1.000**

315. Raghuwanshi, V.S., Harizanova, R., **Tatchev, D.**, Hoell, A., R?ssel, C.. Structural analysis of Fe-Mn-O nanoparticles in glass ceramics by small angle scattering. Journal of Solid State Chemistry, 222, Academic Press Inc., 2015, ISSN:224596, DOI:10.1016/j.jssc.2014.11.009, 103-110

Цитира се в:

891. Michels, A. "Magnetic small-angle neutron scattering: A probe for mesoscale magnetism analysis" (2021) Magnetic Small-Angle Neutron Scattering: A Probe for Mesoscale Magnetism Analysis, pp. 1-357, **@2021** Линк **1.000**

892. Sun, Y. "Anomalous small-angle X-ray scattering for materials chemistry" (2021) Trends in Chemistry, 3 (12), pp. 1045-1060., **@2021** Линк **1.000**

316. Stankova, N. E, Atanasov, P.A, Nedyalkov, N.N, Stoyanchov, T.R, Kolev, K.N, **Valova, E.I**, **Georgieva, J.S**, **Armyanov, S.A**, Amoruso, S, Wang, X, Bruzzese, R, Grochowska, K, Sliwinski, G, Baert, K, Hubin, A., Delplancke, M.-P, Dille, J. Fs- and ns-laser processing of polydimethylsiloxane (PDMS) elastomer: Comparative study. Applied Surface Science, 336, Elsevier, 2015, ISSN:1694332, DOI:10.1016/j.apsusc.2014.12.121, 321-328. SJR:0.913, ISI IF:3.15

Цитира се в:

893. Hayashi S., Morosawa F., Terakawa M., "Laser Direct Writing of Highly Crystalline Graphene on PDMS for Fingertip-Sized Piezoelectric Sensors", Advanced Engineering Materials, 23, 2100457 (2021), **@2021** Линк **1.000**

894. Huang, C.-H.; Wu, H.-C.; Chen, B.-F.; Li, Y.-C., "Graphene/Silver Nanowires/Graphene Sandwich Composite for Stretchable Transparent Electrodes and Its Fracture Mechanism", Micromachines, 12, 512, (2021), **@2021** Линк **1.000**

895. Stroj, S., Plank, W. & Muendlein, M., "Ultrashort-pulsed laser separation of glass-silicone-glass substrates: influence of material properties and laser parameters on dicing process and cutting edge geometry", Appl. Phys. A, 127, 7 (2021), **@2021** Линк **1.000**

896. Xu J., Rong Y., Liu W., Zhang T., Xin G., Huang Y., Wu C., "Temperature Field-Assisted Ultraviolet Nanosecond Pulse Laser Processing of Polyethylene Terephthalate (PET) Film", Micromachines, 12, 1356 (2021), **@2021** Линк **1.000**

897. Zhang W., Yan W., Zheng H., Zhao C., Liu D., "Laser-Engineered Superhydrophobic Polydimethylsiloxane for Highly Efficient Water Manipulation", ACS Appl. Mater & Interfac., 13, 48163–48170 (2021), **@2021** Линк **1.000**

317. Egorysheva, A.V., Milenov, T.I., Ellert, O.G., **Avdeev, G.V.**, Rafailov, P.M., Efimov, N.N., Novotortsev, V.M.. Magnetic glass-ceramics containing multiferroic BiFeO3 crystals. Solid State Sciences, 40, Elsevier Masson SAS, 2015, ISSN:12932558, DOI:10.1016/j.solidstatesciences.2014.12.011, 31-35. ISI IF:1.061

Цитира се в:

898. Li, Y., Wang, G., Lin, Z., Bai, P., Han, J., Li, M., Mao, D., Zeng, Y., Influence of La doping on multiferroic properties of BiFeO3 ceramics prepared by the melt-quenching method, (2021) Applied Physics A: Materials Science and Processing, 127 (5), art. no. 351., **@2021** Линк **1.000**

899. Proskurina, O.V., Sokolova, A.N., Sirotkin, A.A., Abiev, R.S., Gusarov, V.V., Role of Hydroxide Precipitation Conditions in the Formation of Nanocrystalline BiFeO3, (2021) Russian Journal of Inorganic Chemistry, 66 (2), pp. 163-169. Cited 1 time., **@2021** Линк **1.000**

318. Tabakova, T., Ilieva, L., Petrova, P., Venezia, A.M., **Avdeev, G.**, Zanella, R., Karakirova, Y.. Complete benzene oxidation over mono and bimetallic au-pd catalysts supported on fe-modified ceria. Chemical Engineering Journal, 260, Elsevier, 2015, ISSN:13858947, DOI:10.1016/j.cej.2014.08.099, 133-141. SJR (Scopus):2

Цитира се в:

900. Shi, Y., Li, Z., Wang, J., Zhou, R., Synergistic effect of Pt/Ce and USY zeolite in Pt-based catalysts with high activity for VOCs degradation, (2021) Applied Catalysis B: Environmental, 286, art. no. 119936., **@2021** Линк **1.000**

901. Zhao, B., Cheng, Z., Zheng, J., Wang, Z., Zuo, S., Synthesis of C21H38ClN Assisted Si Pillared Clays and the Effects of CeO2 Addition on Its Supported Palladium Catalyst for Benzene Oxidation, (2021) Catalysis Letters, 151 (11), pp. 3287-3297., **@2021** Линк **1.000**

319. **Guergova, D.**, **Stoyanova, E.**, **Stoychev, D.**, Avramova, I., Stefanov, P.. Self-healing effect of ceria electrodeposited thin films on stainless steel in the aggressive 0.5 mol/L NaCl aqueous solution. Journal of Rare Earths, 33, 11, ELSEVIER, 2015, ISSN:1002-0721, DOI:10.1016/S1002-0721(14)60548-2, 1212-1227. SJR:0.538, ISI IF:1.261

Цитира се в:

902. Kirdeikiene, A, Ramanauskas, R.; .; Girciene, O.; Gudaviciute, L.; Jasulaitiene, V.; Selskis, A.; Tutliene, S.; Skruodiene, M.; Pilipavicius, J.; Juodkazyte, J., Self-Healing Properties of Cerium-Modified Molybdate Conversion Coating on Steel. Coatings 11(2), 194, pp. 1-15 (doi: 10.20944/preprints202101.0229.v1). Journal reference: Coatings 2021, 11, 194 DOI: 10.3390/coatings11020194, **@2021** **1.000**

903. Liu, X., He, H., Zhang, T.C., (...), Zhang, Y.-X., Yuan, S., Superhydrophobic and self-healing dual-function coatings based on mercaptabenzimidazole inhibitor-loaded magnesium silicate nanotubes for corrosion protection of AZ31B magnesium alloys, Chemical Engineering Journal, 404, 127106, **@2021** Линк **1.000**

904. Ridosic, M; Salicio-Paz, A; (...); Bajat, JB, The effect of the ultrasound agitation and source of ceria particles on the morphology and structure of the Zn–Co–CeO2 composite coatings, Journal of Materials Research and Technology, Volume 13, 2021, Pages 1336-1349, ISSN 2238-7854, https://doi.org/10.1016/j.jmrt.2021.05.064., **@2021** **1.000**

905. Riđošić M, Nikolić ND, Salicio-Paz A, García-Lecina E, Živković LS, Bajat JB. Zn-Co-CeO2 vs. Zn-Co Coatings: Effect of CeO2 Sol in the Enhancement of the Corrosion Performance of Electrodeposited Composite Coatings. Metals. 2021; 11(5):704. https://doi.org/10.3390/met11050704, **@2021** **1.000**

906. ROUABHIA, F. (2021). Electrodéposition et propriétés anticorrosion de films à base d'oxydes de cérium sur zinc et alliages de zinc (Doctoral dissertation, university of souk ahras)., **@2021** **1.000**

907. Rouabhia, F., Hamlaoui, Y., Meroufel, A., Pedraza, F. Corrosion properties of ceria-based coating electrodeposited from alkaline bath on **1.000**

electrogalvanized steel. Journal of Applied Electrochemistry 51(4), pp. 567-580 (2021). https://doi.org/10.1007/s10800-020-01517-x, **@2021**

320. Ilieva, L., Pantaleo, G., Velinov, N., Tabakova, T., Petrova, P., Ivanov, I., **Avdeev, G.**, Paneva, D., Venezia, A.M.. NO reduction by CO over gold catalysts supported on Fe-loaded ceria. Applied Catalysis B: Environmental, 174-175, Elsevier, 2015, ISSN:09263373, DOI:10.1016/j.apcatb.2015.03.004, 176-184. SJR:2.088, ISI IF:6.639

Цитира се в:

908. Bian, X., Jia, H., Cai, M., Cen, P., Bai, Y., Wu, W., Preparation and characterization of CeO2-Fe2O3catalysts for the selective catalytic reduction of NO with CO, (2021) New Journal of Chemistry, 45 (44), pp. 20726-20734., **@2021** Линк **1.000**

909. Gholami, Z., Luo, G., Gholami, F., Yang, F., Recent advances in selective catalytic reduction of NOx by carbon monoxide for flue gas cleaning process: a review, (2021) Catalysis Reviews - Science and Engineering, 63 (1), pp. 68-119., **@2021** Линк **1.000**

910. Song, J., Wang, Z., Cheng, X., Wang, X., State-of-art review of NO reduction technologies by CO, CH4 and H2, (2021) Processes, 9 (3), art. no. 563., **@2021** Линк **1.000**

911. Yakub, I., McGregor, J., Catalytic Reduction of Nitric Oxide with Hydrogen Using Carbon-Supported d-Metal Catalysts, (2021) Waste and Biomass Valorization., **@2021** Линк **1.000**

321. Atanasov, V., Russev, S., Lyutov, L., Zagraniarsky, Y., Dimitrova, I., **Avdeev, G.**, Avramova, I., Vulcheva, E., Kirilov, K., Tzonev, A., Abrashev, M., Tsutsumanova, G.. Two dimensional polymerization of graphene oxide: Bottom-up approach. Materials Chemistry and Physics, 163, Elsevier BV, 2015, ISSN:0254-0584, DOI:10.1016/j.matchemphys.2015.07.027, 172-181. SJR:0.818, ISI IF:2.455

Цитира се в:

912. Tudose, M., Baratoiu-Carpen, R.D., Anghel, E.M., Voicescu, M., Somacescu, S., Culita, D.C., Hanganu, A., Kuncser, A., Radoi, A., A novel composite based on pyrene thiazole grafted on graphene oxide:physico-chemical characterization and electrochemical investigations, (2021) Materials Chemistry and Physics, 262, art. no. 124315., **@2021** Линк **1.000**

322. Egorov, SA, Hsu, HP, **Milchev, A.**, Binder, K.. Semiflexible polymer brushes and the brush-mushroom crossover. Soft matter, 11, 13, 2015, DOI:10.1039/C4SM02862G, 2604-2616. ISI IF:4.029

Цитира се в:

913. Huang, J.-H., Sun, D.-D., Lu, R.-X. "Glass transition and dynamics of semiflexible polymer brushes".Physical Chemistry Chemical Physics, 23 (25), pp. 13895-13904, 2021, **@2021** Линк **1.000**

914. Reese, C.J., Boyes, S.G. "New methods in polymer brush synthesis: Non-vinyl-based semiflexible and rigid-rod polymer brushes". Progress in Polymer Science, 114, art. no. 101361, 2021, **@2021** Линк **1.000**

915. Wójcik, A.J., Wolski, K., Zapotoczny, S. "Double-stranded surface-grafted polymer brushes with ladder-like architecture". European Polymer Journal, 155, art. no. 110577, 2021, **@2021** Линк **1.000**

323. **Milchev, A.**. EFFECTS OF POLYMER STIFFNESS ON SURFACE TENSION AND PRESSURE IN CONFINEMENT,. J. Chem. Phys., 143, 064701, AIP, 2015, DOI:http://dx.doi.org/10.1063/1.4927559, ISI IF:2

Цитира се в:

916. Chubak, I., Likos, C.N., Egorov, S.A. "Multiscale Approaches for Confined Ring Polymer Solutions". Journal of Physical Chemistry B 125(18), pp. 4910-4923, 2021, **@2021** Линк **1.000**

324. **Boshkov N.**, **Boshkova N.**, **Bachvarov V.**, **Peshova M.**, Lutov L.. Corrosion Investigations of Black Chromite Films on Zn and Zn-Co Coatings with Low Cobalt Content. Journal of Materials Engineering and Performance, 24, 12, Springer, 2015, DOI:10.1007/s11665-015-1794-5, 4736-4745. ISI IF:0.998

Цитира се в:

917. Punith Kumar, M. K., Rekha, M. Y. and Srivastava, Chandan. "Electrogalvanization using new generation coatings with carbonaceous additives: progress and challenges" Corrosion Reviews, vol. 39, no. 1, pp. 15-26, 2021, , **@2021** Линк **1.000**

325. Chalakova, G., Datcheva, M., Zaharieva, R., Georgiev, M., **Dobrovolska, Ts.**, **Stoychev, D.**. Nanomechanical testing of thin composite layers – Application to Pd-In electrochemically deposited thin films. AIP Conference Proceedings, 1684, 030002, American Institute of Physics Publising LLC, 2015, ISSN:0094-243X, SJR:0.152

Цитира се в:

918. Nagaoka, Y., Suda, M., Yoon, I., (...), Yamamoto, H.M., Chen, O., Bulk Grain-Boundary Materials from Nanocrystals, Chem, Volume 7, Issue 2, 2021, Pages 509-525, ISSN 2451-9294, https://doi.org/10.1016/j.chempr.2020.12.026., **@2021** **1.000**

2016

326. Ulaganathan V., **Gochev G.**, Gehin-Delval C., Leser M.E., Gunes D.Z.,, Miller R.. Effect of pH and electrolyte concentration on rising air bubbles in β-lactoglobulin solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 505, Elsevier, 2016, ISSN:0927-7757, 165-170. ISI IF:2.714

Цитира се в:

919. Borkowski, M., & Zawala, J. (2021). Influence of temperature on rising bubble dynamics in water and n-pentanol solutions. Minerals, 11(10) doi:10.3390/min11101067, **@2021** Линк **1.000**

920. Wiertel-Pochopien, A., Kosior, D., & Zawala, J. (2021). Effect of dynamic adsorption layer over colliding bubble on rate of solid surface dewetting in cationic surfactant solutions. Minerals Engineering, 165 doi:10.1016/j.mineng.2021.106850, **@2021** Линк **1.000**

327. Dikovska, A.O, Atanasova, G.B, **Avdeev, G.V**, Strijkova, V.Y.. Thin nanocrystalline zirconia films prepared by pulsed laser deposition (Conference Paper). Journal of Physics: Conference Series, Volume 700, Issue 1, 2016, SJR:0.24

Цитира се в:

921. Ijeh, R.O., Ugwuoke, C.O., Ugwu, E.B., Aisida, S.O., Ezema, F.I., Structural, optical and magnetic properties of Cu-doped ZrO2 films synthesized by electrodeposition method, (2021) Ceramics International., **@2021** Линк **1.000**

328. **Monev, M.**. Hydrogenation and cracking of nickel coatings electrodeposited in the presence of brighteners. Bulg. Chem. Commun., 48, Special Issue B, BAS, 2016, ISSN:08619808, 73-77. ISI IF:0.238

Цитира се в:

922. Mieszkowska, M., Grdeń, M., "Electrochemical deposition of nickel targets from aqueous electrolytes for medical radioisotope production in accelerators: a review", J Solid State Electrochem 25, 1699–1725, 2021., **@2021** Линк **1.000**

329. Palcheva, R, Kaluža L., Dimitrov L., Tyuliev G., **Avdeev G.**, Jirátová K., Spojakina A.. NiMo catalysts supported on the Nb modified mesoporous SBA-15 and HMS: Effect of thioglycolic acid addition on HDS. Applied Catalysis A: General, Volume 520, 2016, ISSN:0926-860X, 24-34. ISI IF:4.012

Цитира се в:

923. Bukhari, S.N., Chong, C.C., Setiabudi, H.D., Cheng, Y.W., Teh, L.P., Jalil, A.A., Ni/Fibrous type SBA-15: Highly active and coke resistant catalyst for CO2 methanation, (2021) Chemical Engineering Science, 229, art. no. 116141., **@2021** Линк **1.000**

924. Doukeh, R., Bombos, D., Bombos, M., Oprescu, E.-E., Dumitrascu, G., Vasilievici, G., Calin, C. Catalytic hydrotreating of bio-oil and evaluation of main noxious emissions of gaseous phase, (2021) Scientific Reports, 11 (1), art. no. 6176., **@2021** Линк **1.000**

925. Ganiyu, S.A., Synergy effect of boron and cobalt in B2O3-SBA-15-(Co)Mo catalyst for efficient hydrodesulfurization of liquid fuels, (2021) Research on Chemical Intermediates, 47 (9), pp. 3751-3768., **@2021** Линк **1.000**

926. Huirache-Acuña, R., Pérez-Ayala, E., Cervantes-Gaxiola, M.E., Alonso-Nuñez, G., Zepeda, T.A., Rivera-Muñoz, E.M., Pawelec, B., Dibenzothiophene hydrodesulfurization over ternary metallic NiMoW/Ti-HMS mesoporous catalysts, (2021) Catalysis Communications, 148, art. no. 106162, . Cited 5 times., **@2021** Линк **1.000**

927. Huirache-Acuña, R., Zepeda, T.A., Vázquez, P.J., Rivera-Muñoz, E.M., Maya-Yescas, R., Pawelec, B., Alonso-Núñez, G., The use of inorganic Al-HMS as a support for NiMoW sulfide HDS catalysts, (2021) Inorganica Chimica Acta, 524, art. no. 120450., **@2021** Линк **1.000**

928. Oliviero, L., Maugé, F., Afanasiev, P., Pedraza-Parra, C., Geantet, C., Organic additives for hydrotreating catalysts: A review of main families and action mechanisms, (2021) Catalysis Today, 377, pp. 3-16., **@2021** Линк **1.000**

929. Santolalla-Vargas, C.E., Santes, V., Suarez-Toriello, V.A., de los Reyes, J.A., Pawelec, B., Fierro, J.L.G., Garcia, E.D., Oliviero, L., Maugé, F., Effect of sulfidation pressure on the structure and activity of Ni(CyDTA)W/γ-Al2O3 hydrodesulfurization catalysts, (2021) Catalysis Today, 377, pp. 92-99., **@2021** Линк **1.000**

930. Wei, Q., Huang, W., Liu, X., Li, A., Zhang, P., Xu, Z., Yu, Z., Wang, X., Liu, H., Zhou, Y., Rhenium modification on NiMo/Al2O3 catalyst and effects on the hydrodesulfurization reaction route selectivity of 4, 6-dimethyldibenzothiophene, (2021) Catalysis Today, ., **@2021** Линк **1.000**

330. Krasteva A., **Popova H.**, Akutsu N., **Tonchev V.**. Time scaling relations for step bunches from models with step-step attractions (B1-type models). AIP Conference Proceedings, 1722, AIP Publishing, 2016, DOI:10.1063/1.4944247, 220015-1-220015-4. SJR:0.152

Цитира се в:

931. Luo, T., Xiang, Y., Yip, N.K. "Energy Scaling and Asymptotic Properties of One-Dimensional Discrete System with Generalized Lennard-Jones (m, n) Interaction". Journal of Nonlinear Science 31, 43, 2021, **@2021** Линк **1.000**

331. Dimowa, L., **Piroeva, I**, **Atanasova-Vladimirova, S**, Petrova, N., Ganev, V., Titorenkova, R., Yankov, G., Petrov, T., Shivachev, B.. Synthesis, structural, thermal and optical properties of TeO2-Bi2O3-GeO2-Li2O glasses. Optical Materials, 60, 2016, 577-583. JCR-IF (Web of Science):2.183

Цитира се в:

932. Siripuram, R., Satya Gopal Rao, P. , Sripada.S. " Influence of nano crystalline behavior of Nb2O5 – Sb2O3 – TeO2 glass ceramics on structural and thermal studies". Materials Today" Proceedings 46, 14, 6344-6357, 2021, **@2021** Линк **1.000**

332. **Gochev, G.**, Platikanov, D., Miller, R.. Chronicles of foam films. Advances in Colloid and Interface Science, 233, Elsevier, 2016, ISSN:18686, DOI:10.1016/j.cis.2015.08.009, 115-125. JCR-IF (Web of Science):7.346

Цитира се в:

933. Andrieux, S., Muller, P., Kaushal, M., Macias Vera, N. S., Bollache, R., Honorez, C., . . . Drenckhan, W. (2021). Microfluidic thin film pressure balance for the study of complex thin films. Lab on a Chip, 21(2), 412-420. doi:10.1039/d0lc00974a, **@2021** Линк **1.000**

934. Gawel, D., & Zawala, J. (2021). Stability of liquid films formed by a single bubble and droplet at Liquid/Gas and Liquid/Liquid interfaces in bovine serum albumin solutions. ACS Omega, 6(28), 18289-18299. doi:10.1021/acsomega.1c02188, **@2021** Линк **1.000**

935. Ochoa, C., Gao, S., Srivastava, S., & Sharma, V. (2021). Foam film stratification studies probe intermicellar interactions. Proceedings of the National Academy of Sciences of the United States of America, 118(25) doi:10.1073/pnas.2024805118, **@2021** Линк **1.000**

936. Ochoa, C., Xu, C., Martínez Narváez, C. D. V., Yang, W., Zhang, Y., & Sharma, V. (2021). Drainageviastratification and nanoscopic thickness transitions of aqueous sodium naphthenate foam films. Soft Matter, 17(39), 8915-8924. doi:10.1039/d1sm01169c, **@2021** Линк **1.000**

937. Seimiya, T., & Seimiya, T. (2021). Revisiting the “pearl string” in draining soap bubble film first witnessed by sir james dewar some 100 years ago: A note of analyses for the phenomena with related findings. Physics of Fluids, 33(10) doi:10.1063/5.0059830, **@2021** Линк **1.000**

938. Volodko, A. A., & Dubinov, A. E. (2021). High-speed visualization of soap films bursting dynamics. American Journal of Physics, 89(3), 253-260. doi:10.1119/10.0002494, **@2021** Линк **1.000**

333. Atanasov, P.A, Stankova, N.E, Nedyalkov, N.N, Fukata, N, Hirsch, D, Rauschenbach, B, Amoruso, S, Wang, X, Kolev, K.N, **Valova, E.I**, **Georgieva, J.S**, **Armyanov, S.A**. Fs-laser processing of medical grade polydimethylsiloxane (PDMS). Applied Surface Science, 374, Elsevier, 2016, ISSN:0169-4332, DOI:10.1016/j.apsusc.2015.11.175, 229-234. SJR:0.913, ISI IF:3.387

Цитира се в:

939. Bing W., Cai Y., Jin H., Tian L., Tian L., Yin Y., Teng Y., Wang P., Hou Z., Bai X., “An antiadhesion and antibacterial platform based on parylene F coatings” Progress in Organic Coatings, 151, 106021 (2021), **@2021** Линк **1.000**

940. Terakawa M., “Laser-Induced Carbonization and Graphitization”, in “Handbook of Laser Micro- and Nano-Engineering”, K. Sugioka (ed.), Springer Nature Switzerland AG 2021, **@2021** **1.000**

334. Braunschweig, B., Schulze-Zachau, F., Nagel, E., Engelhardt, K., **Stoyanov, S.**, **Gochev, G.**, **Khristov, K.**, **Mileva, E.**, **Exerowa, D.**, Miller, R., Peukert, W.. Specific effects of Ca2+ ions and molecular structure of β-lactoglobulin interfacial layers that drive macroscopic foam stability. Soft Matter, 12, 27, Royal Society of Chemistry, 2016, ISSN:1744-683X, 5995-6004. JCR-IF (Web of Science):3.798

Цитира се в:

941. Kubbutat P., Leitão L., Kulozik U. "Stability of Foams in Vacuum Drying Processes. Effects of Interactions between Sugars, Proteins, and Surfactants on Foam Stability and Dried Foam Properties" Foods 2021, 10(8), 1876, 2021, **@2021** Линк **1.000**

942. Kühnhammer Matthias, Widmann Tobias, Kreuzer Lucas P., Schmid Andreas J. , Wiehemeier Lars, Frielinghaus Henrich, Jaksch Sebastian, Bögershausen Torsten, Barron Paul, Schneider Harald, Hiess Arno, Müller-Buschbaum Peter, Hellwe Thomas, von Klitzing Regine and Löhmann Oliver "Flexible Sample Environments for the Investigation of Soft Matter at the European Spallation Source: Part III—The Macroscopic Foam Cell" Appl. Sci. 2021, 11(11), 5116; https://doi.org/10.3390/app11115116, **@2021** Линк **1.000**

943. Zhou Beibei, Tobin John T., Drusch Stephan, Hogan Sean A. "Interfacial properties of milk proteins: A review" Advances in Colloid and Interface Science, 2021, 295:102347. doi: 10.1016/j.cis.2020.102347., **@2021** Линк **1.000**

335. **Bachvarov V.**, Lefterova E., **Rashkov R.**. Electrodeposited NiFeCo and NiFeCoP alloy cathodes for hydrogen evolution reaction in alkaline medium.. International Journal of Hydrogen Energy, 41, 30, Elsevier Ltd., 2016, ISSN:ISSN: 0360-3199, DOI:http://dx.doi.org/10.1016/j.ijhydene.2016.05.164, 12762-1277. ISI IF:3.582

Цитира се в:

944. Attias R., Vijaya Sankar K., Dhaka K., Moschkowitsch W., Elbaz L., Caspary Toroker M., Tsur Y.. "Optimization of Ni−Co−Fe-Based Catalysts for Oxygen Evolution Reaction by Surface and Relaxation Phenomena Analysis". ChemSusChemVolume 14, Issue 7, Pages 1737 - 17469 April 2021, **@2021** Линк **1.000**

945. Chaurasia A.K., Shankar R., Mondal P.."Effects of nickle, nickle-cobalt and nickle-cobalt-phosphorus nanocatalysts for enhancing biohydrogen production in microbial electrolysis cells using paper industry wastewater". Journal of Environmental ManagementVolume 29815 November 2021 Article number 113542, **@2021** Линк **1.000**

946. Li R., Li Y., Yang P., Wang D., Xu H., Wang B., Meng F., Zhang J., An M.. "Electrodeposition: Synthesis of advanced transition metal-based catalyst for hydrogen production via electrolysis of water". Journal of Energy ChemistryVolume 57, Pages 547 - 566June 2021, **@2021** Линк **1.000**

947. Li Y., Li R., Wang D., Xu H., Lu X., Xiao L., Meng F., Zhang J., An M., Yang P.. "Pulse electrodeposited CoFeNiP as a highly active and stable electrocatalyst for alkaline water electrolysis". Sustainable Energy and FuelsVolume 5, Issue 12, Pages 3172 - 318121 June 2021, **@2021** Линк **1.000**

948. Suresh R., Sathishkumar P., Kumaravelan S., Seshadri S.. "MAGNETIC PROPERTIES and MICROSTRUCTURE of Co-Ni-Fe-Gd-Mn ELECTRODEPOSITED THIN FILM". Surface Review and LettersVolume 28, Issue 1January 2021 Article number 2050039, **@2021** Линк **1.000**

949. Uzal H., Döner A., Bayrakçeken H.."Preparation and fabrication of NiCo coated TiO2-NTs for hydrogen evolution". Energy Sources, Part A: Recovery, Utilization and Environmental Effects2021, **@2021** Линк **1.000**

950. Yu M., Liu F., Li J., Liu J., Zhang Y., Cheng F.."Multidimensional Nonstoichiometric Electrode Materials for Electrochemical Energy Conversion and Storage". Advanced Energy Materials2021, **@2021** Линк **1.000**

951. Zhang L.-N., Li R., Zang H.-Y., Tan H.-Q., Kang Z.-H., Wang Y.-H., Li Y.-G.. "Advanced hydrogen evolution electrocatalysts promising sustainable hydrogen and chlor-alkali co-production". Energy and Environmental ScienceVolume 14, Issue 12, Pages 6191 - 6210, **@2021** Линк **1.000**

336. Boiadjieva-Scherzer, Tz., Kronberger, H., Fafilek, G., **Monev, M.**. Hydrogen evolution reaction on electrodeposited Zn-Cr alloy coatings. Journal of Electroanalytical Chemistry, 783, 15 December 2016, Elsevier, 2016, ISSN:1572-6657, DOI:http://dx.doi.org/10.1016/j.jelechem.2016.10.059, 68-75. SJR:0.741, ISI IF:3.012

Цитира се в:

952. El Fazazi, A., Ouakki, M., Cherkaoui, M., "Electrochemical Deposition and Spectroscopy Investigation of Zn Coatings on Steel", J Bio Tribo Corros 7, 58, 2021, **@2021** Линк **1.000**

953. Osuchowska, E., Buczko, Z., Olkowicz, K., "Zn-Cr Alloy Coatings: Electrodeposition and Properties", Journal of KONBiN, Warsaw, 51(1), 29-42, 2021, **@2021** Линк **1.000**

954. Yi, Z., Chen, G., Hou, F., Wang, L., Liang, J., "Strategies for the Stabilization of Zn Metal Anodes for Zn-Ion Batteries", Advanced Energy Materials, 11(1), 2003065, 2021, **@2021** Линк **1.000**

955. Zhuang, R., Tan, Y., Liu, Y., ...Ouyang, Y., Du, Y., "Interdiffusion behaviors and mechanical properties of Zn–Cr system", Calphad, 74, 102308, 2021, **@2021** Линк **1.000**

337. **Kamburova K.**, **Boshkova N.**, **Boshkov N.**, **Radeva Ts.**. Design of polymeric core-shell nanocontainers impregnated with benzotriazole for active corrosion protection of galvanized steel. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 499, 2016, ISSN:0927-7757, DOI:http://dx.doi.org/10.1016/j.colsurfa.2016.03.067, 24-30. SJR:0.831, ISI IF:2.76

Цитира се в:

956. Lee, K., Cavazos C. G., Rouse J. Wei X., Li M., Wei S., Advanced Micro/Nanocapsules for Self-healing Smart Anticorrosion Coatings: A Review of Recent Developments, Book Chapter in Corrosion Protection of Metals and Alloys Using Graphene and Biopolymer Based Nanocomposites, Edited by Hatem M.A. Amin, Ahmed Galal, CRC Press, (2021) , https://doi.org/10.1201/9781315171364;, **@2021** Линк **1.000**

957. Ma, I.A.W., Ammar, S., Kumar, S.S.A. et al. "A concise review on corrosion inhibitors: types, mechanisms and electrochemical evaluation studies"", J Coat Technol Res (2021)., **@2021** Линк **1.000**

338. Mintsouli, I, **Georgieva, J**, Papaderakis, A, **Armyanov, S**, **Valova, E**, Khomenko, V, Balomenou, S, Tsiplakides, D, Sotiropoulos, S. Methanol oxidation at platinized copper particles prepared by galvanic replacement. Journal of Electrochemical Science and Engineering, 6, IAPC Publishing, 2016, ISSN:1847-9286, DOI:10.5599/jese.0000.000, 17-28

Цитира се в:

958. Zozulya, G.I., Kuntyi, O.I., Mertsalo, I.P., Mazur A. S., “Production of Cu/Ag Porous Bimetal by the Galvanic Replacement of Dezincified Brass”, Mater. Sci., 56, 668–672 (2021)., **@2021** Линк **1.000**

339. **Milchev A.**. Semiflexible Polymers in the Bulk and Confined by Planar Walls. Polymers, 8, 8, 2016, DOI:doi:10.3390/polym8080296, 296

Цитира се в:

959. Chen, W., Kong, X., Wei, Q., Chen, H., Liu, J., Jiang, D. "Compression and stretching of confined linear and ring polymers by applying force". Polymers, 13 (23), art. no. 4193, 2021, **@2021** Линк **1.000**

960. Nikoubashman, A. "Ordering, phase behavior, and correlations of semiflexible polymers in confinement". Journal of Chemical Physics, 154 (9), art. no. 0038052, 2021, **@2021** Линк **1.000**

961. Vereroudakis, E., Vlassopoulos, D. "Tunable dynamic properties of hydrogen-bonded supramolecular assemblies in solution". Progress in Polymer Science, 112, art. no. 101321, 2021, **@2021** Линк **1.000**

340. **Andreeva R.**, **Stoyanova E.**, Tsanev A., **Stoychev D.**. Influence of the surface pre-treatment of aluminium on the processes of formation of cerium oxides protective films. Journal of Physics: Conference Series 700 (2016) 012049, Institute of Physics Publishing - IOP Publishing, 2016, ISSN:1742-6596, DOI:doi:10.1088/1742-6596/700/1/012049, 1-6. SJR:0.22, ISI IF:0.3

Цитира се в:

962. E Detsi, JS Corsi BULK NANOPOROUS MATERIALS FOR ON-SITE AND ON-BOARD GENERATION OF HYDROGEN AND OTHER PRODUCTS - US Patent App. 16/978, 927, 2021 - freepatentsonline.com Google Patents, **@2021** **1.000**

963. Sainis S. The influence of Al alloy microstructure on conversion coating formation, Jönköping University, School of Engineering; p. 562021. (JTH Dissertation Series). Available from: http://urn.kb.se/resolve?urn = urn:nbn:se:hj:diva-51565 2021 (English), **@2021** **1.000**

341. Ignatova, K., **Piroeva, I.**, **Vladimitova-Atanasova, S.**. EFFECT OF THE ELECTRODEPOSITION CONDITIONS ON THE MORPHOLOGY AND CORROSION BEHAVIOR OF Ni-Co ALLOYS PART 1: CHEMICAL COMPOSITION, CATHODIC CURRENT EFFICIENCY, AND MORPHOLOGY OF Ni-Co ALLOYS ELECTRODEPOSITED FROM CITRATE ELECTROLYTE. Journal of Chemical Technology and Metallurgy, 51, 1, 2016, ISSN:13147471, 99-105. SJR (Scopus):0.168

Цитира се в:

964. Budi, S., Afrizal, Muhab, S., Cahyana, U., Purwanto, A., Paristiowati, M. "TIME-DEPENDENT COMPOSITION OF THE ELECTRODEPOSITED NANOCRYSTALLINE Fe-Co-Ni FILMS". Journal of Chemical Technology and Metallurgy, 56, 4, 2021., **@2021** Линк **1.000**

342. Chalakova, GS, Datcheva, MD, Iankov, RZ, Baltov,AI, **Stoychev, DS**. Comparative study via nanoindentation of the mechanical properties of conversion corrosion protective layers on aluminum formed in Cr 6-containing and Cr 6-free solutions. Bulgarian Chemical Communication, 48, Special Issue A, BULGARIAN ACAD SCIENCE, 2016, ISSN:ISSN: 0324-1130, 64-70. ISI IF:0.238

Цитира се в:

965. Teodosiev, D; Bouzekova-Penkova, A; (...); Grushin, V „STRUCTURAL AND MECHANICAL PROPERTIES OF GLASS-CARBON COATINGS AFTER EXTENDED STAY ON THE INTERNATIONAL SPACE STATION (ISS)“ , COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES 74 (2) , pp.197-206 DOI:10.7546/CRA BS.2021.02.05, **@2021** **1.000**

966. Ziouche A. , Hammouda A. , Boucherou N. , Mokhtari M. , Hafez B. , Elmsellem H. , Abaidia S. , Corrosion Protection Enhancement on Aluminum Alloy And Magnesium Alloy by Mo-CeO2 conversion coating, Moroccan Journal of Chemistry, 9 N°3 (2021) 386-393 DOI: https://doi.org/10.48317/IMIST.PRSM/morjchem-v9i3.27828, **@2021** **1.000**

343. **Goranova, D.**, **Rashkov, R.**, **Avdeev, G.**, **Tonchev, V.**. Electrodeposition of Ni–Cu alloys at high current densities: details of the elements distribution. Journal of Materials Science, 51, 18, Springer, 2016, ISSN:1573-4803, DOI:10.1007/s10853-016-0126-y, 8663-8673. SJR:0.836, ISI IF:2.302

Цитира се в:

967. Kobayashi, T., Shohji, I., Fabrication of three-dimensional microstructure film by Ni-Cu alloy electrodeposition for joining dissimilar materials, (2021) Materials Science Forum, 1016 MSF, pp. 738-743., **@2021** Линк **1.000**

968. Kobayashi, T., Shohji, I., Joining process of dissimilar materials using three-dimensional electrodeposited Ni-Cu film, (2021) Materials and Manufacturing Processes, 36 (9), pp. 1076-1083., **@2021** Линк **1.000**

344. **Tsakova V.**, Seeber R.. Conducting polymers in electrochemical sensing– factors influencing the electroanalytical signal. Analytical and Bioanalytical Chemistry, 408, 26, Springer, 2016, ISSN:1618-2642, DOI:10.1007/s00216-016-9774-7, 7231-7241. ISI IF:3.125

Цитира се в:

969. Almtiri, M., Dowell, T. J., I. Chu, I., Wipf, D. O., Scott, C. N. , " Phenoxazine-containing polyaniline derivatives with improved electrochemical stability and processability", ACS Applied Polymer Materials, 2021, **@2021** Линк **1.000**

970. Arul, P., Huang, Sh.-T., V. Mani, V., Hu, Y.-Ch., " Ultrasonic synthesis of bismuth-organic framework intercalated carbon nanofibers: A dual electrocatalyst for trace-level monitoring of nitro hazards", Electrochimica Acta 381, 138280, 2021, **@2021** Линк **1.000**

971. Butina, K., "Bacterial sensors and controllers based on organic bioelectronics, Karolinska Instute", Stockholm, **@2021** **1.000**

972. Dzulkurnain, N.A., Mokhtar, M., Rashid, J.I.A., Knight, V.F., Yunus, W. Md Z. W., .Ong, K. Kh, . Kasim, N. A. M., . Noor, S. A. M., " A Review on Impedimetric and Voltammetric Analysis Based on Polypyrrole Conducting Polymers for Electrochemical Sensing Applications", Polymers, 13 (16), 2728, 2021, **@2021** Линк **1.000**

973. Hryniewicz, B. M., Alvarenga, G. De., . Deller, A., Vidotti, M., " Nanostructured Platforms Based on Conducting Polymers for Sensing", Reference Module in Biomedical Science, **@2021** Линк **1.000**

974. Karazehir, T., Sarac, B., . Gilsing, H.-D., Eckert, J., Sezai Sarac, A., "Effective Methanol Oxidation with Platinum Nanoparticles-Decorated Poly(2-bromomethyl-2-methyl-3, 4-propylenedioxythiophene)-Coated Glassy Carbon Electrode", J. Electrochem. Soc. 168 (8), 086503, 2021, **@2021** **1.000**

975. Kula, S., Szlapa-Kula, A., Krompiec, S., Schab-Balcerzak, E., Chrobok, A., Gancarz, P., Filapek, M., " New possibilities of 2-pyranone derivatives – Thermal, optical and electrochemical properties ", Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 263, 114820, 2021, **@2021** **1.000**

976. Marzouki, R., Brahmia, A., Alsulami, Q.A., MAS Keshk, Sh., Emwas, A.-H., Jaremko, M., F Zid, M., Heinze, Th., " Structure, thermal stability and electrical properties of cellulose-6-phosphate: development of a novel fast Na-ionic conductor", Polymer International, 2021, **@2021** Линк **1.000**

977. Sierra-Padilla, A., García-Guzmán, J., J., López-Iglesias, D., . Palacios-Santander, J. M ., Cubillana-Aguilera, L., "E-Tongues/Noses Based on Conducting Polymers and Composite Materials: Expanding the Possibilities in Complex Analytical Sensing", Sensors, 21 (15), 4976, 2021, **@2021** Линк **1.000**

978. Vinothkumar, V., Kesavan, G., Chen, Sh.-M., "Carbon nitride nanosheets incorporated with polypyrrole nanocomposite: A sensitive metal-free electrocatalyst for determination of antibiotic drug nitrofurantoin", Colloids and Surfaces A: Physicochemical and Engineering Aspects, 629, 127433, 2021, **@2021** Линк **1.000**

345. **Vassilev, Ts.**, Penkov, I., Tzvetkova, Ch., **Pascova, R.**. Glass transition temperatures and structures of multicomponent borate glasses: Influence of modifier cation field strengths. J.Non-Cryst.Solids, 438, Elsevier, 2016, ISSN:0022-3093, DOI:10.1016/j.jnoncrysol.2016.02.007, 1-6. ISI IF:1.766

Цитира се в:

979. Issa, S.A., Zakaly, H.M., Badawi, A., Elsaman, R., Tekin, H.O., Showahy, A.A., Anjana, P.S., Nath, D.R., Gopakumar, N. and Saddeek, Y.B., 2021. An experimental investigation on structural, mechanical and physical properties of Strontium–Silicon Borate glass system through Bismuth-Aluminum substitution. Optical Materials, 117, p.111124., **@2021** Линк **1.000**

980. Kumar, M., Nagabhushana, H. and Ratnakaram, Y.C., 2021. Influence of alkali and alkaline earths on structural and luminescence properties of Sm3+ doped lithium fluoro phosphate glass and different (Na, Mg, K, Ca and Sr) glass ceramics. Journal of Non-Crystalline Solids, 573, p.121146., **@2021** Линк **1.000**

981. Kumar, P., Bindu, S.H., Rao, P.V., Klement, R., Galusek, D., Veeraiah, N. and Prasad, P.S., 2021. Enhancement of rare earth ions hosting potential of B2O3 added germanium based glasses: A detailed Optical analysis. Journal of Alloys and Compounds, p.160800., **@2021** Линк **1.000**

346. **Valova, E**, **Armyanov, S**, Hristova, G, **Vassilev, T**, Steenhaut, O, Dille, J, Hubin, A, Vandendael, I. Electroless deposited Ni-Ce-P coatings. Surface and Coatings Technology, 304, Elsevier, 2016, ISSN:0257-8972, DOI:10.1016/j.surfcoat.2016.07.054, 468-475. SJR:0.872, ISI IF:2.589

Цитира се в:

982. Sai, Ting, Ran S., Guo Z., Yan H., Zhang Y., Wang H., Song P., Fang Z, "Transparent, highly thermostable and flame retardant polycarbonate enabled **1.000**

by rod-like phosphorous-containing metal complex aggregates." Chemical Engineering Journal 409: 128223., **@2021** Линк

347. Stankova, N.E., Atanasov P.A., Nikov Ru.G., Nedyalkov N.N., Stoyanchov T.R., Fukata N., K.N. Kolev, **Valova E.I.**, **Georgieva J.S.**, **Armyanov St.A.**. Optical properties of polydimethylsiloxane (PDMS) during nanosecond laser processing. Applied Surface Science, 374, Elsevier, 2016, ISSN:ISSN: 0169-4332, DOI:10.1016/j.apsusc.2015.10.016, 96-103. ISI IF:3.387

Цитира се в:

983. Arpah Ö. Ü. Ç., "Thermal Effect of Gaussian Laser Beam on PDMS", in 10th International Scientific Research Congress, Proceeding Book, pp. 264-270, Ankara, 11 – 12 April 2021., **@2021** **1.000**

984. Baczynski S., Sobotka P., Marchlewicz K., Słowikowski M., Juchniewicz M., Dybko A., Rutkowska K.A., "Orientation of Liquid Crystalline Molecules on PDMS Surfaces and within PDMS Microfluidic Systems", Appl. Sci., 11, 11593 (2021), **@2021** Линк **1.000**

985. Bai R., Gao Y., Lu C., Tan J., Xuan F., "Femtosecond Laser Micro-fabricated Flexible Sensor Arrays for Simultaneous Mechanical and Thermal Stimuli Detection", Measurement: J. of Internat. Measurement Confederation, 169, Art. #108348 (2021), **@2021** Линк **1.000**

986. Cruz Juan Manuel Gomez, "Development of nanoplasmonic platforms for portable sensing applications, PhD thesis Queen's University, Kingston, Ontario, Canada, June 2021., **@2021** **1.000**

987. Güell-Grau P., Pi F., Villa R., Nogués J., Alvarez M., Sepúlved B., Ultrabroadband light absorbing Fe/polymer flexible metamaterial for soft opto-mechanical devices, Applied Materials Today, 23 101052 (2021), **@2021** Линк **1.000**

988. Min K, Lim J, Lim JH, Hwang E, Kim Y, Lee H, Lee H, Hong S., „Fabrication of Perforated PDMS Microchannel by Successive Laser Pyrolysis", Materials, 14, 7275 (2021), **@2021** Линк **1.000**

989. Nam K.-H., Jeong C. B., Kim H. M., Ahn M., Ahn S.-J., Hur H., Kim D. U., Jang J., Gwon H.-J., Lim Y.-M., Cho D.-W., Lee K.-S., Bae J. Y., Chang K. S., "Quantitative Photothermal Characterization with Bioprinted 3D Complex Tissue Constructs for Early-Stage Breast Cancer Therapy Using Gold Nanorods", Advanced Healthcare Materials, 10, 2100636 (2021), **@2021** Линк **1.000**

990. Oser P., Jehn J., Kaiser M., Düttmann O., Schmid F., Schulte-Spechtel L., Rivas S. S., Eulenkamp C., Schindler C., Grosse C. U., Wu D., "Fiber-optic photoacoustic generator realized by inkjet-printing of CNT-PDMS composites on fiber end faces" Macromolecular Materials & Eng., 306, 2000563 (2021), **@2021** Линк **1.000**

991. Ozunlu S., Akdogan N. G., Bozkurt M. N., Doganturk L., Alshammari H. A., Le Roy D. Akdogan O. "Innovative Technique for Patterning Nd-Fe-B Arrays and Development of a Microfluidic Device with High Trapping Efficiency", Nanotechnol. 32, 495501 (2021), **@2021** Линк **1.000**

992. Panusa Giulia, „Three-dimensional fabrication of sub-micron optical waveguides in PDMS and other polymer materials" Thèse # 8384 pour l'obtention du grade de Docteur ès Sciences, École polytechnique fédérale de Lausanne, 2021, **@2021** **1.000**

993. Syahida N. A., characterization and stability testing of polydimethylsiloxane (PDMS) on exposure of ultraviolet (uv) radiation, PhD Thesis, Universitas Pendidikan, Indonesia, Agustus 2021, **@2021** **1.000**

994. Terakawa M., "Laser-Induced Carbonization and Graphitization", in "Handbook of Laser Micro- and Nano-Engineering", K. Sugioka (ed.), Springer Nature Switzerland AG 2021, **@2021** Линк **1.000**

995. Uba I., Ghebreyessus K., Geddis D., Hommerich U., "Tunable Optoelectronic Properties of Polydimethylsiloxane-Arylazopyrazole Flexible Composite", SoutheastCon, 2021, 1-5 (2021), **@2021** Линк **1.000**

996. Üyesi Ö., Arpali Ç., "Thermal Effect of Gaussian Laser Beam on PDMS" in 10th International Scientific Research Congress -Science and Engineering- (UBAK) Proceeding Book, Editor Berrin Topuz, pp. 265-271, 11 – 12 April 2021 online / Ankara, Turkey, **@2021** **1.000**

997. Wu L., Luo J., Li Y., Zhang W., Wang L., Huang X., Xiao W., Tang L., Gao J., "Emulsion dipping based superhydrophobic, temperature tolerant, and multifunctional coatings for smart strain sensing applications", Composites Science and Technology, 216, 109045 (2021), **@2021** Линк **1.000**

998. Zhang W., Yan W., Zheng H., Zhao C., Liu D., "Laser-Engineered Superhydrophobic Polydimethylsiloxane for Highly Efficient Water Manipulation", ACS Appl. Mater & Interfac., 13, 48163–48170 (2021), **@2021** Линк **1.000**

348. **Hodzhaoglu, F. V.**, Conejero-Muriel, M., **Dimitrov, I. L.**, Gavira, J. A.. Optimization of the classical method for nucleation and growth of rhombohedral insulin crystals by pH titration and screening. Bulgarian Chemical Communications, 48, A, 2016, 29-37. SJR:0.156, ISI IF:0.349

Цитира се в:

999. Link, Frederik, Heng, Jerry. "Enhancing the crystallisation of insulin using amino acids as soft-templates to control nucleation". CrystEngComm 23, 2021, 3951-3960, **@2021** **1.000**

349. **Lyutov, V.**, Gruia, V., Efimov, I., Bund, A., **Tsakova, V.**. An acoustic impedance study of PEDOT layers obtained in aqueous solution. Electrochimica Acta, 190, Elsevier Ltd, 2016, ISSN:0013-4686, DOI:10.1016/j.electacta.2015.12.177, 285-293. ISI IF:4.803

Цитира се в:

1000. Guillén, E., Agrisuelas, J., García-Jareño, J., J., "The role of lithium, perchlorate and water during electrochemical processes in poly(3, 4-ethylenedioxythiophene) films in LiClO4 aqueous solutions", J. Electroanal. Chem. 897, 115580, 2021, **@2021** **1.000**

1001. Mocaër, A., Pillier, F., Pailleret, A., "Switching of the ion exchange behaviour of PEDOT thin films during a potential cycling: an electrochemical atomic force microscopy study", Electrochim. Acta, 2021, **@2021** Линк **1.000**

1002. Weis, D.G., Kiefer, R., Zondaka, Z., Tamm, T., Urban, G., "Polypyrrole and poly(3, 4-ethylenedioxythiophene) on silicon cantilever: Role of formation potential in bending displacement", Synth. Met. 271, 116653, 2021, **@2021** **1.000**

350. Zidek, J, **Milchev, A**, Jancar, J, Vilgis, T. DEFORMATION-INDUCED DAMAGE AND RECOVERY IN MODEL HYDROGELS–A MOLECULAR DYNAMICS SIMULATION. Journal of the Mechanics and Physics of Solids, 94, Elsevier, 2016, DOI:10.1016/j.jmps.2016.05.013, 372-387. ISI IF:3.875

Цитира се в:

1003. Danielsen, S.P.O., Beech, H.K., Wang, S., El-Zaatari, B.M., Wang, X., Sapir, L., Ouchi, T., Wang, Z., Johnson, P.N., Hu, Y., Lundberg, D.J., Stoychev, G., Craig, S.L., Johnson, J.A., Kalow, J.A., Olsen, B.D., Rubinstein, M. "Molecular Characterization of Polymer Networks". Chemical Reviews, 121 (8), pp. 5042-5092, 2021, **@2021** Линк **1.000**

1004. Gorai, B., Rocha, B.C., Vashisth, H. "Design of Functionalized Lobed Particles for Porous Self-Assemblies". JOM, 73 (8), pp. 2413-2422, 2021, **@2021** Линк **1.000**

1005. Lei, J., Li, Z., Xu, S., Liu, Z. "Recent advances of hydrogel network models for studies on mechanical behaviors". Acta Mechanica Sinica/Lixue Xuebao, 37 (3), pp. 367-386, 2021, **@2021** Линк **1.000**

351. Egorov, A, **Milchev**, Virnau, P, Binder, K.. SEMIFLEXIBLE POLYMERS UNDER GOOD SOLVENT CONDITIONS INTERACTING WITH REPULSIVE WALLS. The Journal of Chemical Physics, 144, 17, AIP, 2016, DOI:10.1063/1.4947254, ISI IF:2.894

Цитира се в:

1006. Jiang, J. "Non-monotonic Effects of Intrinsic Stiffness and Concentration of Polyelectrolytes on the Electro-Sorption". Macromolecules, 54 (4), pp. 1801-1810, 2021, **@2021** Линк **1.000**

1007. Jiang, J. "Software Package: An Advanced Theoretical Tool for Inhomogeneous Fluids (Atif)". Chinese Journal of Polymer Science (English Edition), 2021, **@2021** Линк **1.000**

1008. Nikoubashman, A. "Ordering, phase behavior, and correlations of semiflexible polymers in confinement". Journal of Chemical Physics, 154 (9), art. no. 0038052, 2021, **@2021** Линк **1.000**

1009. Poblete, S., Božič, A., Kanduč, M., Podgornik, R., Guzman, H.V. "RNA Secondary Structures Regulate Adsorption of Fragments onto Flat Substrates". ACS Omega, 6 (48), pp. 32823-32831, 2021, **@2021** Линк **1.000**

352. Egorov, A, **Milchev, A**, Binder, Kurt. ANOMALOUS FLUCTUATIONS OF NEMATIC ORDER IN SOLUTIONS OF SEMIFLEXIBLE POLYMERS. Physical Review Letters, 116, 18, AIP, 2016, 187801. ISI IF:7.645

Цитира се в:

1010. Nikoubashman, A. "Ordering, phase behavior, and correlations of semiflexible polymers in confinement". Journal of Chemical Physics, 154 (9), art. no. 0038052, 2021, **@2021** Линк **1.000**

1011. Zhang, Z., Dubay, K.H. "The Sequence of a Step-Growth Copolymer Can Be Influenced by Its Own Persistence Length". Journal of Physical Chemistry B, 125 (13), pp. 3426-3437, 2021, **@2021** Линк **1.000**

353. Raicheff R., Mladenov M., Stoyanov L., **Boshkov N.**, **Bachvarov V.**. Novel current collector and active mass carrier of the zinc electrode for alkaline nickel-zinc batteries. Bulgarian Chemical Communications, 48, 1, Bulgarian Academy of Sciences, 2016, ISSN:0324-1130, 61-65. SJR:0.144, ISI IF:0.349

Цитира се в:

1012. Abrashev, B., Uzun, D., Terziev, V., Raikova, G., & Petrov, K. Influence of the binder on the mechanical stability and electrochemical properties of Zn electrode for rechargeable zinc-air batteries. BULGARIAN CHEMICAL COMMUNICATIONS, 53, 4, 447-450., **@2021** Линк **1.000**

354. Nikoubashman, A, **Milchev**, Binder, Kurt. DYNAMICS OF SINGLE SEMIFLEXIBLE POLYMERS IN DILUTE SOLUTION. J. Chem. Phys., 145, AIP, 2016, 234903. ISI IF:2.894

Цитира се в:

1013. Duarte, L.K.R., Teixeira, A.V.N.C., Rizzi, L.G. "Microrheology of semiflexible filament solutions based on relaxation simulations". Soft Matter, 17 (10), pp. 2920-2930, 2021, **@2021** Линк **1.000**

1014. Howard, M.P., Sherman, Z.M., Sreenivasan, A.N., Valenzuela, S.A., Anslyn, E.V., Milliron, D.J., Truskett, T.M. "Effects of linker flexibility on phase behavior and structure of linked colloidal gels". Journal of Chemical Physics, 154 (7), art. no. 074901, 2021, **@2021** Линк **1.000**

1015. Silmore, K.S., Strano, M.S., Swan, J.W. "Buckling, crumpling, and tumbling of semiflexible sheets in simple shear flow". Soft Matter, 17 (18), pp. 4707-4718, 2021, **@2021** Линк **1.000**

2017

355. **Goranova, D**, Lefterova, E, **Rashkov, R**. Electrocatalytic activity of Ni-Mo-Cu and Ni-Co-Cu alloys for hydrogen evolution reaction in alkaline medium. International Journal of Hydrogen Energy, 42, 48, 2017, ISSN:0360-3199, DOI:https://doi.org/10.1016/j.ijhydene.2017.10.002, 28777-28785. SJR:1.142, ISI IF:3.582

Цитира се в:

1016. Aydın Ö., "A novel cathode catalyst for hydrogen evolution reaction: Ni–NiO@Ru". Materials Chemistry and PhysicsVolume 27015 September 2021 Article number 124850, **@2021** Линк **1.000**

1017. Badrnezhad R., Nasri F., Pourfarzad H., Jafari S.K. "Effect of iron on Ni–Mo–Fe composite as a low-cost bifunctional electrocatalyst for overall water splitting". International Journal of Hydrogen EnergyVolume 46, Issue 5, Pages 3821 - 383219 January 2021, **@2021** Линк **1.000**

1018. Farsak M., Aydın Ö. "The snowflake-like structured NiO-Cu2O@Fe/Ru catalyst for hydrogen fuel production". International Journal of Energy ResearchVolume 45, Issue 5, Pages 7561 - 7571April 2021, **@2021** Линк **1.000**

1019. Ganci F., Patella B., Cannata E., Cusumano V., Aiello G., Sunseri C., Mandin P., Inguanta R.. "Ni alloy nanowires as high efficiency electrode materials for alkaline electrolysers". International Journal of Hydrogen EnergyVolume 46, Issue 72, Pages 35777 - 3578919 October 2021, **@2021** Линк **1.000**

1020. Guo W., Kim J., Kim H., Ahn S.H. "Direct electrodeposition of Ni-Co-S on carbon paper as an efficient cathode for anion exchange membrane water electrolysers". International Journal of Energy ResearchVolume 45, Issue 2, Pages 1918 - 1931February 2021, **@2021** Линк **1.000**

1021. Laszczyńska A., Tylus W.b, Szczygieł I. "Electrocatalytic properties for the hydrogen evolution of the electrodeposited Ni–Mo/WC composites". International Journal of Hydrogen EnergyOpen AccessVolume 46, Issue 44, Pages 22813 - 2283128 June 2021, **@2021** Линк **1.000**

1022. Zhao Y., Zhang J., Zhang W.-S., Wu A.-L. "Growth of Ni/Mo/Cu on carbon fiber paper: An efficient electrocatalyst for hydrogen evolution reaction". International Journal of Hydrogen EnergyVolume 46, Issue 72, Pages 35550 - 3555819 October 2021, **@2021** Линк **1.000**

356. Bykov, AG, **Gochev, G**, Loglio, G, Miller, R, Panda, AK, Noskov, BA. Dynamic surface properties of mixed monolayers of polystyrene micro- and nanoparticles with DPPC. Colloid and Surfaces A, 521, ELSEVIER, 2017, ISSN:0927-7757, DOI:10.1016/j.colsurfa.2016.11.006, 239-246. ISI IF:2.714

Цитира се в:

1023. Da, C., Zhang, X., Alzobaidi, S., Hu, D., Wu, P., & Johnston, K. P. (2021). Tuning surface chemistry and ionic strength to control nanoparticle adsorption and elastic dilational modulus at air-brine interface. Langmuir, 37(19), 5795-5809. doi:10.1021/acs.langmuir.1c00112, **@2021** Линк **1.000**

1024. Malakhova, Y. N., Stupnikov, A. A., & Belousov, S. I. (2021). Surface dilatational rheology of carboxyl-containing dimethylsiloxane oligomers in langmuir films at the air-water interface. BioNanoScience, 11(3), 755-761. doi:10.1007/s12668-021-00868-9, **@2021** Линк **1.000**

357. Shahir, Af A, **Arabadzhieva, D**, **Petkova, H**, Karakashev, St I, Nguyen, A V, **Mileva, E**. Effect of Under-Monolayer Adsorption on Foamability, Rheological Characteristics, and Dynamic Behavior of Fluid Interfaces: Experimental Evidence for the Guggenheim Extended Interface Model. 121, 21, J. Phys. Chem. C, 2017, ISSN:1932-7447, 11472-11487. ISI IF:4.536

Цитира се в:

1025. Hantal G., Sega, M., Horvai, G., Jedlovszky, P., "Contribution of Different Molecules and Moieties to the Surface Tension in Aqueous Surfactant Solutions. II: Role of the Size and Charge Sign of the Counterions". J. Phys. Chem. B 2021, 125, 31, 9005–9018, 2021, **@2021** Линк **1.000**

1026. Nguyen, C.V., Phan, C.M., Nakahara, H., Shibata, O., Ionic distribution of MgCl2 near the alcohol/water interface, Journal of Molecular Liquids, 344, 117902, 2021, **@2021** Линк **1.000**

358. **Gyurova, Anna Y**, Stoyanov, Stefan, **Mileva, Elena**. Capture of LPS traces in aqueous solutions by tectomers of four-antennary oligoglycines. Colloids and Surfaces A:Physicochemical and Engineering Aspects, 520, 2017, 914-921. JCR-IF (Web of Science):2.714

Цитира се в:

1027. André M. Lopes, Jorge Fernando Brandão Pereira, João V. D. Molino, Felipe R. Lourenço, Adalberto Pessoa "Lipopolysaccharides. Methods of Quantification and Removal from Biotechnological Products" Chapter 14 in: Pharmaceutical Biotechnology. A Focus on Industrial Application, Adalberto Pessoa, Michele Vitolo, Paul Frederick Long (Eds.) CRC Press, 2021, **@2021** Линк **1.000**

359. **Gyurova, A**, Halacheva, S, **Mileva, E**. Aqueous solutions of random poly(methylmethacrylate-co-acrylic acid): Effect of the acrylic acid content. RSC Advances, 7, RSC, 2017, ISSN:20462069, DOI:10.1039/C7RA00180K, 13372-13382. SJR (Scopus):0.86, JCR-IF (Web of Science):3.108

Цитира се в:

1028. Uddin, M.A., Yu, H., Wang, L., Naveed K-ur-R, Amin B., Mehmood S., Haq F., Nazir A., Lin T., Chen, X., Ni, Z. "Multiple-stimuli-responsiveness and conformational inversion of smart supramolecular nanoparticles assembled from spin labeled amphiphilic random copolymers". Journal of Colloid and Interface Science, 585, pp. 237-249 (2021), **@2021** Линк **1.000**

360. **Georgieva, J**, Sotiropoulos, S, **Valova, E**, **Armyanov, S**, Hubin, A, Steenhaut, O, Raes, M, Papaderakis, A. Pt-doped TiO2/WO3 bi-layer catalysts on graphite substrates with enhanced photoelectrocatalytic activity for methanol oxidation under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 346 (2017), Elsevier B.V., 2017, ISSN:1010-6030, DOI:https://doi.org/10.1016/j.jphotochem.2017.05.049, 70-76. SJR (Scopus):0.689, JCR-IF (Web of Science):2.891

Цитира се в:

1029. Hu J, Zhai C, Zhu M, "Photo-responsive metal/semiconductor hybridnanostructure: A promising electrocatalyst for solar light enhanced fuel cell reaction", Chinese Chem. Lett, 32, 1348-1358 (2021), **@2021** Линк **1.000**

361. **Georgieva, J**, **Valova, E**, **Armyanov, S**, **Tatchev, D**, Sotiropoulos, S, Avramova, I, **Dimitrova, N**, Hubin, A, Steenhaut, O. A simple preparation method and characterization of B and N co-doped TiO2 nanotube arrays with enhanced photoelectrochemical performance. Applied Surface Science, 413, Elsevier, 2017, ISSN:0169-4332, DOI:10.1016/j.apsusc.2017.04.055, 284-291. SJR (Scopus):0.951, JCR-IF (Web of Science):4.439

Цитира се в:

1030. Ambigadevi J., Senthil Kumar P., Vo Dai-Viet N., Hari Haran S., Srinivasa Raghavan T.N., "Recent Developments in Photocatalytic Remediation of Textile Effluent using Semiconductor based Nanostructured Catalyst: A Review", J. Environmental Chem. Engin., 9, 104881 (2021), **@2021** Линк **1.000**

1031. Arifin K., Yunus R. M., Minggu L. J., Kassim M. B., "Improvement of TiO2 nanotubes for photoelectrochemical water splitting: Review", Intern. J. Hydrogen Energy, 46, 4998-5024 (2021), **@2021** Линк **1.000**

1032. Burhan H., Arıkan K., Bekmezci M., Gur T., Şen F., Ch. 7 "Pt-based catalysts for alcohol oxidation" in "Nanomaterials for Direct Alcohol Fuel Cells", Editor: Fatih Şen, Elsevier, 27th August 2021, **@2021** Линк **1.000**

1033. Liu L., Liu Y., Wang X., Hu N., Li Y., Li C., Meng Y., An Y., "Synergistic effect of B-TiO2 and MIL-100(Fe) for high-efficiency photocatalysis in methylene blue degradation", Appl. Surf. Sci., 561, 149969 (2021), **@2021** Линк **1.000**

1034. Long Y., Luo X., Zhang L., Xue X., Yin Y., Zhu Z., Xu B., "High-temperature transformation behavior of iron-doped titanium dioxide crystal structures", Phase Transitions, 94, 219-235 (2021), **@2021** Линк **1.000**

1035. Qin Q., Wang J., Xia Y., Yang D., Zhou Q., Zhu X., Feng W., „Synthesis and Characterization of Sn/Ni Single Doped and Co–Doped Anatase/Rutile Mixed–Crystal Nanomaterials and Their Photocatalytic Performance under UV–Visible Light", Catalysts, 11, 1341, 11 p. (2021), **@2021** Линк **1.000**

1036. Quiroz H. P., Galíndez E. F., Dussan A., Cardona-Rodriguez A., Ramirez J. G., "Super-exchange interaction model in DMOs: Co doped TiO2 thin films", J. Materials Science, 56 (1) 1-11 (2021), **@2021** Линк **1.000**

1037. Wei X., Wang C., Dinga S., Yanga K., Tian F., Li F., "One-step synthesis of Ag nanoparticles/carbon dots/TiO2 nanotube arrays composite photocatalyst with enhanced photocatalytic activity", J. of Environm. Chem. Engineering, 9, 104729 (2021), , **@2021** Линк **1.000**

1038. Wu D., Guo J., Wanga H., Zhang X., Yang Y., Yang C., Gao Z., Wang Z., Jiang K., "Green synthesis of boron and nitrogen co-doped TiO2 with rich B-N motifs as Lewis acid-base couples for the effective artificial CO2 photoreduction under simulated sunlight", J. Colloid & Interface Sci., 585, 95-107 (2021), **@2021** Линк **1.000**

362. Papaderakis, Athanasios, Mintsouli, Ioanna, **Georgieva, Jenia**, Sotiropoulos, Sotiris. Electrocatalysts Prepared by Galvanic Replacement. Catalysts, 7, 3, MDPI, 2017, DOI:10.3390/catal7030080, 80-112. SJR (Scopus):0.928, JCR-IF (Web of Science):3.947

Цитира се в:

1039. Hagos Gebre, S., Getaye Sendeku, M. "Trimetallic nanostructures and their applications in electrocatalytic energy conversions". Journal of Energy Chemistry, 65, 329-351, 2021, **@2021** Линк **1.000**

1040. Hossain, M.N., Ahmad, S., Kraatz, H.-B. "Synthesis and electrochemical study of coinage metal nanodendrites for hydrogen evolution reaction". International Journal of Hydrogen Energy, 46(2), 2007-2017, 2021, **@2021** Линк **1.000**

1041. Kim, J.E., Jang, J.H., Lee, K.M., Balamurugan, M., Jo, Y.I., Lee, M.Y., Choi, S., Im, S.W., Nam, K.T. "Electrochemical Synthesis of Glycine from Oxalic Acid and Nitrate". Angewandte Chemie - International Edition. 60(40), 21943-21951, **@2021** Линк **1.000**

1042. Lee, D.W., Choi, D., Lee, M.J., Jin, H., Lee, S., Jang, I., Park, H.-Y., Jang, J.H., Kim, H.-J., Lee, K.-Y., Yoo, S.J. "Tailoring of Pt Island RuO2/C Catalysts by Galvanic Replacement to Achieve Superior Hydrogen Oxidation Reaction and CO Poisoning Resistance". ACS Applied Energy Materials, 4(8), 8098-8107, 2021, **@2021** Линк **1.000**

1043. Lim, S.Y., Martin, S., Gao, G., Dou, Y., Simonsen, S.B., Jensen, J.O., Li, Q., Norrman, K., Jing, S., Zhang, W. "Self-Standing Nanofiber Electrodes with Pt–Co Derived from Electrospun Zeolitic Imidazolate Framework for High Temperature PEM Fuel Cells". Advanced Functional Materials, 31(7), 2006771, 2021, **@2021** Линк **1.000**

1044. Nguyen, M.T.X., Nguyen, M.-K., Pham, P.T.T., Phuong, H.H.K. , Hoang, P.H., Vo, C.C., Nguyen, S.T. "High-performance Pd-coated Ni nanowire electrocatalysts for alkaline direct ethanol fuel cells". Journal of Electroanalytical Chemistry, 888, 115180, 2021, **@2021** Линк **1.000**

1045. Pishgar, S., Mulvehill, M.C., Gulati, S., Sumanasekera, G.U., Spurgeon, J.M. "Investigation of n-GaAs Photoanode Corrosion in Acidic Media with Various Thin Ir Cocatalyst Layers". ACS Applied Energy Materials, 4(10), 10799-10809, 2021, **@2021** Линк **1.000**

1046. Rizk, M.R., Abd El-Moghny, M.G. "Controlled galvanic decoration boosting catalysis: Enhanced glycerol electro-oxidation at Cu/Ni modified macroporous films". International Journal of Hydrogen Energy, 46(1), 645-655, 2021, **@2021** Линк **1.000**

1047. Sato, F., Funo, S., Cai, Z., Chang, G., He, Y., Oyama, M. "Modification with platinum of silver-deposited nickel wire electrodes for electrocatalytic oxidation of alcohols". Electrochemistry Communications, 124, 106939, 2021, **@2021** Линк **1.000**

1048. Sun, M., Tian, J., Chen, Q. "The studies on wet chemical etching via in situ liquid cell TEM". Ultramicroscopy, 231, 113271, 20121, **@2021** Линк **1.000**

1049. Wang, Y., Wang, D., Li, Y. "Rational Design of Single-Atom Site Electrocatalysts: From Theoretical Understandings to Practical Applications". Advanced Materials, 33(34), 2008151, 2021, **@2021** Линк **1.000**

363. Cherneva, S, Iankov, R, Radić, N, Grbić, B, Datcheva, M, **Stoychev, D**. Nanoindentation investigations of mechanical properties of thin TiO2, WO3 and their composites layers, deposited by spray-pyrolysis. MATERIALI IN TEHNOLOGIJE / MATERIALS AND TECHNOLOGY, 51, 1, Inštitut za kovinske materiale in tehnologije Ljubljana, 2017, ISSN:1580-2949, 75-83. ISI IF:0.714

Цитира се в:

1050. Tuhta, S., Günday, F., DETermination of the Effect of TiO2on the Dynamic Behavior of Scaled Concrete Chimney by Oma, Materiali in Tehnologije 55(3), pp. 459-466 DOI: 10.17222/mit.2021.059, **@2021** **1.000**

364. **Boshkov, N**. "Influence of the organic additives and of stabilized polymeric micelles on the metallographic structure of nanocomposite Zn and Zn-Co coatings". Portugaliae Electrochimica Acta, 35, 1, Portuguese Electrochemical Society, 2017, ISSN:1647-1571, DOI:10.4152/pea.201701053, 53-63. SJR:0.21

Цитира се в:

1051. Maniam KK, Paul S. Corrosion Performance of Electrodeposited Zinc and Zinc-Alloy Coatings in Marine Environment. Corrosion and Materials Degradation. 2021; 2(2):163-189., **@2021** Линк **1.000**

365. **Kamburova, K**, Mitarova, K., **Radeva, Ts.**. Polysaccharide-based nanocapsules for controlled release of indomethacin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 519, 2017, 199-204. JCR-IF (Web of Science):2.714

Цитира се в:

1052. Ajdnik U., Anti-biofilm multifunctional coating for medical devices, Doctoral Dissertation, University of Maribor, Faculty of mechanical engineering, Slovenia, 2021, **@2021** Линк **1.000**

1053. Marian Florea M., Ion R.M, Polysaccharide Nanocapsules for Drug Delivery Applications, Current Status and Future Perspectives, The Annals of "Dunarea de Jos" University of Galati. Fascicle IX, Metallurgy and Materials Science, 44(1), 46-3 (2021), **@2021** Линк **1.000**

1054. Vikulina, A.S., Campbell, J., Biopolymer-based multilayer capsules and beads made via templating: Advantages, hurdles and perspectives, Nanomaterials, 11 (10), art. no. 2502 (2021), **@2021** Линк **1.000**

366. Kyovtorov, V, Georgiev, I, Margenov, S, **Stoychev, D**, Oliveri, F, Tarchi, D. New antenna design approach - 3D polymer printing and metallization. Experimental test at 14-18GHz. AEU - International Journal of Electronics and Communications, 73, March2017, Elsevier, 2017, ISSN:1434-8411, DOI:http://dx.doi.org/10.1016/j.aeue.2016.12.017, 119-128. SJR (Scopus):0.42, JCR-IF (Web of Science):2.115

Цитира се в:

1055. Ahmed, A.E., Ali, W.A.E., Das, S., Quintuple band circular monopole antenna with innovative 3-D printed PLA substrate for wireless applications, Frequenz , Article in Press 2021 https://doi.org/10.1515/freq-2021-0082, **@2021** **1.000**

1056. Caroline Moura, Hugo Dinis, Oscar Carvalho et al. A novel approach for micro-antenna fabrication on metal substrate assisted by laser printing for communication systems in smart implants, 06 April 2021, PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3.rs-355649/v1], Springer, **@2021** **1.000**

1057. Feng, B., Tu, Y., Chen, J., Chung, K.L., Sun, S., High-performance dual circularly-polarized antenna arrays using 3D printing for 5G millimetre-wave communications, 2021 AEU - International Journal of Electronics and Communications 130, 153569 https://doi.org/10.1016/j.aeue.2020.153569, **@2021** **1.000**

1058. Haque, N., Azarfam, M.Y. & Noori, H. Microwave-assisted fracture toughness improvement in additively manufactured polylactic acid–copper composite. Journal of Materials Science 56(19), pp. 11298-11308 (2021). https://doi.org/10.1007/s10853-021-06019-5, **@2021** **1.000**

1059. ISO 690 Design and Fabrication of Compact 2x2 Dual Linear Polarized Wideband and High Gain Array forKu-Band Satellite Communication Application Parya Fathi, Javad Aliasgari Faculty of Electrical and Computer Engineering, Tarbiat Modares University P Fathi, J Aliasgari - researchgate.net BibTech, **@2021** **1.000**

1060. Montejo-Garai, J.R., Ruiz-Cruz, J.A., Rebollar, J.M., Additive manufacturing of a compact Ku-band orthomode transducer Open Access, AEU - International Journal of Electronics and Communications 137, 153798, 2021 https://doi.org/10.1016/j.aeue.2021.153798, **@2021** **1.000**

367. Tabakova, T, Kolentsova, E, Dimitrov, D, Ivanov, K, Manzoli, M, Venezia, AM, Karakirova, Y, Petrova, P, Nihtianova, D, **Avdeev, G**. CO and VOCs Catalytic Oxidation Over Alumina Supported Cu–Mn Catalysts: Effect of Au or Ag Deposition. Topics in Catalysis, 60, 1-2, 2017, DOI:10.1007/s11244-016-0723-7, 110-122. SJR (Scopus):0.965, JCR-IF (Web of Science):2.486

Цитира се в:

1061. Chen, Y., Li, X., Li, J., Wu, L., Li, X., Cu nanoparticles confined in TiO2 nanotubes to enhance the water-gas shift reaction activity, (2021) International Journal of Green Energy, 18 (6), pp. 595-601., **@2021** Линк **1.000**

1062. Etim, U.J., Bai, P., Gazit, O.M., Zhong, Z., Low-Temperature Heterogeneous Oxidation Catalysis and Molecular Oxygen Activation, (2021) Catalysis Reviews - Science and Engineering., **@2021** Линк **1.000**

1063. Li, J., He, S., Wang, T., Shen, Z., Chen, X., Zhou, F. A catalyst powder-based spraying approach for rapid and efficient removal of fire-generated CO : From laboratory to pilot scale, (2021) Journal of Hazardous Materials, 415, art. no. 125607, ., **@2021** Линк **1.000**

1064. Rochard, G., Olivet, L., Tannous, M., Poupin, C., Siffert, S., Cousin, R., Recent advances in the catalytic treatment of volatile organic compounds: A review based on the mixture effect, (2021) Catalysts, 11 (10), art. no. 1218, ., **@2021** Линк **1.000**

1065. Rokicińska, A., Majerska, P., Drozdek, M., Jarczewski, S., Valentin, L., Chen, J., Slabon, A., Dzwigaj, S., Kuśtrowski, P., Impact of Mn addition on catalytic performance of Cu/SiBEA materials in total oxidation of aromatic volatile organic compounds, (2021) Applied Surface Science, 546, art. no. 149148., **@2021** Линк **1.000**

368. Ulaganathan, V, Retzlaff, I, Won, JY, **Gochev, G**, Gehin-Delval, C, Leser, M, Noskov, BA, Miller, R. β-Lactoglobulin adsorption layers at the water/air surface: 1. Adsorption kinetics and surface pressure isotherm: Effect of pH and ionic strengt. Colloids and Surfaces A, 519, Elsevier, 2017, ISSN:0927-7757, 153-160. ISI IF:2.714

Цитира се в:

1066. Benbow, N. L., Rozenberga, L., McQuillan, A. J., Krasowska, M., & Beattie, D. A. (2021). ATR FTIR study of the interaction of TiO2Nanoparticle films with β-lactoglobulin and bile salts. Langmuir, 37(45), 13278-13290. doi:10.1021/acs.langmuir.1c01830, **@2021** Линк **1.000**

1067. Bertsch, P., Böcker, L., Mathys, A., & Fischer, P. (2021). Proteins from microalgae for the stabilization of fluid interfaces, emulsions, and foams. Trends in Food Science and Technology, 108, 326-342. doi:10.1016/j.tifs.2020.12.014, **@2021** Линк **1.000**

1068. Kurz, F., Reitberger, V., Hengst, C., Bilke-Krause, C., Kulozik, U., & Dombrowski, J. (2021). Correlation between physico-chemical characteristics of particulated β-lactoglobulin and its behavior at air/water and oil/water interfaces. Foods, 10(6) doi:10.3390/foods10061426, **@2021** Линк **1.000**

1069. Poirier, A., Stocco, A., Kapel, R., In, M., Ramos, L., & Banc, A. (2021). Sunflower proteins at air-water and oil-water interfaces. Langmuir, 37(8), 2714- **1.000**

2727. doi:10.1021/acs.langmuir.0c03441, **@2021** Линк

1070. Ramamirtham, S., Whitby, C. P., Zare, D., Weeks, M., & Williams, M. A. K. (2021). The rheological properties of bovine β-lactoglobulin stabilized oil/water interfaces depend on the protein's quaternary structure. Food Hydrocolloids, 120 doi:10.1016/j.foodhyd.2021.106834, **@2021** Линк **1.000**

1071. Tian, Y., Taha, A., Zhang, P., Zhang, Z., Hu, H., & Pan, S. (2021). Effects of protein concentration, pH, and NaCl concentration on the physicochemical, interfacial, and emulsifying properties of β-conglycinin. Food Hydrocolloids, 118 doi:10.1016/j.foodhyd.2021.106784, **@2021** Линк **1.000**

1072. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

369. Ulaganathan, V, Retzlaff, I, Won, JY, **Gochev, G**, Gehin-Delval, C, Leser, M, Noskov, BA, Miller, R. β-Lactoglobulin adsorption layers at the water/air surface:2 Dilational rheology: Effect of pH and ionic strength. Colloids and Surfaces A, 521, Elsevier, 2017, ISSN:0927-7757, 167-176. ISI IF:2.714

Цитира се в:

1073. Bergfreund, J., Bertsch, P., & Fischer, P. (2021). Adsorption of proteins to fluid interfaces: Role of the hydrophobic subphase. Journal of Colloid and Interface Science, 584, 411-417. doi:10.1016/j.jcis.2020.09.118, **@2021** Линк **1.000**

1074. Bertsch, P., Böcker, L., Mathys, A., & Fischer, P. (2021). Proteins from microalgae for the stabilization of fluid interfaces, emulsions, and foams. Trends in Food Science and Technology, 108, 326-342. doi:10.1016/j.tifs.2020.12.014, **@2021** Линк **1.000**

1075. Poirier, A., Stocco, A., Kapel, R., In, M., Ramos, L., & Banc, A. (2021). Sunflower proteins at air-water and oil-water interfaces. Langmuir, 37(8), 2714-2727. doi:10.1021/acs.langmuir.0c03441, **@2021** Линк **1.000**

1076. Ramamirtham, S., Williams, M. A. K., Zare, D., Weeks, M., & Whitby, C. P. (2021). Complexes of β-lactoglobulin and high methyl-esterified pectin as a one-shot delivery system for reinforcing oil/water interfaces. Soft Matter, 17(37), 8517-8522. doi:10.1039/d1sm00989c, **@2021** Линк **1.000**

1077. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

370. **Ranguelov, B**, Mueller, P, Metois, J-J, **Stoyanov, S**. Step density waves on growing vicinal crystal surfaces - Theory and experiment. Journal of Crystal Growth, 457, Elsevier, 2017, ISSN:0022-0248, DOI:10.1016/j.jcrysgro.2016.06.041, 184-187. SJR:0.752, ISI IF:1.751

Цитира се в:

1078. Guin, L., Jabbour, M.E., Shaabani-Ardali, L., Triantafyllidis, N. "Revisiting step instabilities on crystal surfaces. Part II: General theory". Journal of the Mechanics and Physics of Solids 156, 104582, 2021, **@2021** Линк **1.000**

371. Won, JY, **Gochev, G**, Ulaganathan, V, Krägel, J, Aksenenko, EV, Fainerman, VB, Miller, R. Effect of solution pH on the adsorption of BLG at the solution/tetradecane interface. Colloids and Surfaces A, 519, Elsevier, 2017, ISSN:0927-7757, 161-167. ISI IF:2.714

Цитира се в:

1079. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Dynamic adsorption and interfacial rheology of whey protein isolate at oil-water interfaces: Effects of protein concentration, pH and heat treatment. Food Hydrocolloids, 116 doi:10.1016/j.foodhyd.2021.106640, **@2021** Линк **1.000**

1080. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

372. **Nakova, A**, **Ilieva, M**, Boiadjieva-Scherzer, Tz, **Tsakova, V**. High-density Pd nanoparticles distribution on PEDOT obtained through electroless metal deposition on pre-reduced polymer layers. Electrochimica Acta, 253, Elsevier, 2017, 128-133. ISI IF:4.798

Цитира се в:

1081. Chou, Sh.-Ch., Sun, B.-Y., Cheang, W.-H. , Tso, K.-Ch., Fan Tz.-L., . Chiao, J.-Ch., Wu P.-W. " A flexible bioelectrode based on IrO2–coated metallized polypropylene micromembrane", Ceramics International 47 (23), 32554-32561, 2021, **@2021** Линк **1.000**

373. Koleva, ME, Nedyalkov, NN, Fukata, N, Jevasuwan, W, Amoruso, S, Koutzarova, T, **Avdeev, GV**, Georgieva, B, Karashanova, D. Laser-assisted approach for synthesis of plasmonic Ag/ZnO nanostructures. Superlattices and Microstructures, 109, 2017, DOI:10.1016/j.spmi.2017.06.007, 886-896. ISI IF:2.123

Цитира се в:

1082. Yudasari, N., Anugrahwidya, R., Tahir, D., Suliyanti, M.M., Herbani, Y., Imawan, C., Khalil, M., Djuhana, D., Enhanced photocatalytic degradation of rhodamine 6G (R6G) using ZnO–Ag nanoparticles synthesized by pulsed laser ablation in liquid (PLAL) (2021) Journal of Alloys and Compounds, 886, art. no. 161291., **@2021** Линк **1.000**

374. Czarnecki J, **Khristov K**, Masliyah J, **Panchev N**, Taylor SD, **Tchoukov P**. Application of Scheludko–Exerowa thin liquid film technique to studies of petroleum W/O emulsions. Colloids and Surfaces A, Physicochem. Eng. Aspects, 519, Elsevier, 2017, DOI:http://dx.doi.org/10.1016/j.colsurfa.2016.04.040, 2-10. ISI IF:2.714

Цитира се в:

1083. Chatzigiannakis, E., Jaensson, N. and Vermant, J., "Thin liquid films: Where hydrodynamics, capillarity, surface stresses, and intermolecular forces meet". Current Opinion in Colloid & Interface Science, p.101441, 2021., **@2021** **1.000**

1084. Wang, M., Yan, W., Zhou, Y., Fan, L., Liu, Y. and Li, J., "Progress in the application of lecithins in water-in-oil emulsions". Trends in Food Science & Technology, 118, pp.388-398, 2021., **@2021** **1.000**

375. Won, JY, **Gochev, G**, Ulaganathan, V, Krägel, J, Aksenenko, EV, Fainerman, VB, Miller, R. Dilational visco-elasticity of BLG adsorption layers at the solution/tetradecane interface – Effect of pH and ionic strength. Colloids and Surfaces A, 521, Elsevier, 2017, ISSN:0927-7757, 204-210. ISI IF:2.714

Цитира се в:

1085. Bergfreund, J., Bertsch, P., & Fischer, P. (2021). Adsorption of proteins to fluid interfaces: Role of the hydrophobic subphase. Journal of Colloid and Interface Science, 584, 411-417. doi:10.1016/j.jcis.2020.09.118, **@2021** Линк **1.000**

1086. Bergfreund, J., Diener, M., Geue, T., Nussbaum, N., Kummer, N., Bertsch, P., Nystro¨m, G., Fischer, P. (2021). Globular protein assembly and network formation at fluid interfaces: Effect of oil. Soft Matter, 17(6), 1692-1700. doi:10.1039/d0sm01870h, **@2021** Линк **1.000**

1087. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

376. Milyaeva, OYu, **Gochev, G**, Loglio, G, Miller, R, Noskov, BA. Influence of polyelectrolytes on dynamic surface properties of fibrinogen solutions. Colloids and Surfaces A, 532, Elsevier, 2017, ISSN:0927-7757, DOI:doi.org/10.1016/j.colsurfa.2017.06.002, 108-115. ISI IF:2.714

Цитира се в:

1088. Vdovchenko, A., Pearce, A. K., Freeley, M., O'Reilly, R. K., & Resmini, M. (2021). Effect of heterogeneous and homogeneous polymerisation on the structure of pNIPAm nanogels. Polymer Chemistry, 12(47), 6854-6864. doi:10.1039/d1py01333e, **@2021** Линк **1.000**

377. **Karabozhikova, V**, **Tsakova, V**. Electroless deposition of silver on poly(3, 4-ethylenedioxythiophene) - role of the organic ions used in the course of electrochemical synthesis. Chemical Papers, 71, 2, Springer, 2017, ISSN:0366-6352, DOI:10.1007/s11696-016-0076-5, 339-334. SJR (Scopus):0.306, JCR-IF (Web of Science):1.258

Цитира се в:

1089. Oña, J.P., Mousavi, Z., Sokalski, T., Leito, I., Bobacka, J., " Dependence of the potentiometric response of PEDOT (PSS) on the solubility product of silver salts", Electrochim. Acta, 390, 138854, 2021, **@2021** **1.000**

378. **Karabozhikova, V**, **Tsakova, V**. Electroless deposition of silver on poly(3,4-ethylenedioxythiophene) obtained in the presence of polystyrene sulfonate or dodecyl sulfate ions – effect of polymer layer thickness. Bulgarian Chemical Communications, 49 F (2017) 37, 2017, 37-43. ISI IF:0.238

Цитира се в:

1090. Oña, J.P., Mousavi, Z., Sokalski, T., Leito, I., Bobacka, J., " Dependence of the potentiometric response of PEDOT (PSS) on the solubility product of silver salts", Electrochim. Acta, 390, 138854, 2021, **@2021** **1.000**

379. **Todorov, R**, Exerowa, D, **Alexandrova, L**, Platikanov, D, **Terziyski, I**, Nedyalkov, M, Pelizzi, N, Salomone, F. Behavior of thin liquid films from aqueous solutions of a pulmonary surfactant in presence of corticosteroids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 521, Elsevier B.V., 2017, ISSN:0927-7757, DOI:10.1016/j.colsurfa.2016.09.024, 105-111. JCR-IF (Web of Science):2.714

Цитира се в:

1091. Ravera, F., Miller, R., Zuo, Y.Y., Noskov B.A., Bykov A.G., Kovalchuk, Loglio G., Javadi A., Liggieri L., Methods and models to investigate the physicochemical functionality of pulmonary surfactant, Current Opinion in Colloid and Interface Science (Volume 55, October 2021, 101467 https://www.sciencedirect.com/science/article/abs/pii/S1359029421000510, **@2021** Линк **1.000**

380. Mozaffari, S, **Tchoukov, P**, Mozaffari, A, Atias, J, Czarnecki, J, Nazemifard, N. Capillary driven flow in nanochannels – Application to heavy oil rheology studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 513, Elsevier 2016, 2017, ISSN:0927-7757, DOI:10.1016/j.colsurfa.2016.10.038, 178-187. ISI IF:2.714

Цитира се в:

1092. Ashraf, M.W., Mahmood, A., ur Rehman, A., Ramay, S.M. and Saleem, M., "Growth of Zr–BiFeO3 nanostructures on two step anodized porous alumina for estimation of optical and dielectric response". Physica E: Low-dimensional Systems and Nanostructures, 127, p.114513, 2021., **@2021** **1.000**

1093. Bao, B. and Zhao, S., "A review of experimental nanofluidic studies on shale fluid phase and transport behaviors". Journal of Natural Gas Science and Engineering, 86, p.103745, 2021., **@2021** **1.000**

1094. Cao, G., Du, T., Bai, Y., Yang, T. and Zuo, J., "Effects of surfactant molecular structure on the stability of water in oil emulsion". Journal of Petroleum Science and Engineering, 196, p.107695, 2021., **@2021** **1.000**

1095. de Haas, T.W., Bao, B., Acosta Ramirez, H., Abedini, A. and Sinton, D., Screening High-Temperature Foams with Microfluidics for Thermal Recovery Processes. Energy & Fuels, 35(9), pp.7866-7873, 2021., **@2021** **1.000**

1096. Eke, W.I., Kyei, S.K., Ajienka, J. and Akaranta, O., "Effect of bio-based flow improver on the microscopic and low-temperature flow properties of waxy crude oil". Journal of Petroleum Exploration and Production, 11(2), pp.711-724, 2021., **@2021** **1.000**

1097. Farooq, U., Patil, A., Panjwani, B. and Simonsen, G., "Review on Application of Nanotechnology for Asphaltene Adsorption, Crude Oil Demulsification, and Produced Water Treatment". Energy & Fuels, 35(23), pp.19191-19210, 2021., **@2021** **1.000**

1098. Gong, H., Qiu, Z., Peng, Y., Yu, B., Liao, Z., Chen, L. and Xin, L., "Separation characteristics and structure optimization of double spherical tangent double-field coupling demulsifier". Journal of Petroleum Exploration and Production Technology, pp.1-15, 2021, **@2021** **1.000**

1099. Guzmán, R., Rodríguez, S., Torres-Mancera, P., Ancheyta, J."Evaluation of Asphaltene Stability of a Wide Range of Mexican Crude Oils", (2021) Energy **1.000**

and Fuels, 35 (1), pp. 408-418., **@2021**

1100. Liu, J., Zhong, L., Hao, T., Liu, Y. and Zhang, S., . Pore-scale dynamic behavior and displacement mechanisms of surfactant flooding for heavy oil recovery. Journal of Molecular Liquids, p.118207, 2021, **@2021** **1.000**

1101. Longinos, S.N. and Parlaktuna, M., " Examination of behavior of lysine on methane (95%)–propane (5%) hydrate formation by the use of different impellers". Journal of Petroleum Exploration and Production, 11(4), pp.1823-1831, 2021., **@2021** **1.000**

1102. Nguyen, M.T., Nguyen, D.L.T., Xia, C., Nguyen, T.B., Shokouhimehr, M., Sana, S.S., Grace, A.N., Aghbashlo, M., Tabatabaei, M., Sonne, C. and Kim, S.Y., "Recent advances in asphaltene transformation in heavy oil hydroprocessing: Progress, challenges, and future perspectives". Fuel Processing Technology, 213, p.106681, 2021., **@2021** **1.000**

1103. Rabani, R. and Pishevar, A., "Heat Transfer through the Interface of Solids and Nanoconfined Gas. arXiv preprint arXiv:2108.06689", 2021., **@2021** **1.000**

1104. Rameshkumar, C., Senthilkumar, G., Subalakshmi, R."Purification of tap water to drinking water: Nanobubbles technology" (2021) Desalination and Water Treatment, 233, pp. 11-18., **@2021** **1.000**

1105. Razzaghi-Koolaee, F., Zargar, G., Soltani Soulgani, B. and Mehrabianfar, P., "Application of a non-ionic bio-surfactant instead of chemical additives for prevention of the permeability impairment of a swelling sandstone oil reservoir". Journal of Petroleum Exploration and Production Technology, pp.1-17, 2021., **@2021** **1.000**

1106. Shoaib, M., Raja, M.A.Z., Sabir, M.T., Nisar, K.S., Jamshed, W., Felemban, B.F. and Yahia, I.S., "MHD Hybrid Nanofluid Flow Due to Rotating Disk with Heat Absorption and Thermal Slip Effects: An Application of Intelligent Computing". Coatings, 11(12), p.1554, 2021., **@2021** **1.000**

1107. Wang, Q., Wang, L., Zhao, S.L. and Meng, Z., "Experimental study on the suspension stability and tribological properties of nano-copper in LCKD-320# lubricating oil". Applied Nanoscience, 11(1), pp.45-54, 2021., **@2021** **1.000**

1108. Zou, A., Poudel, S., Gupta, M. and Maroo, S.C., "Disjoining Pressure of Water in Nanochannels". Nano letters, 21(18), pp.7769-7774, 2021., **@2021** **1.000**

381. **Karamanov, A**, Paunovic´, P, **Ranguelov, B**, Ljatifi, E, Kamusheva, A, Na˘cevski, G, **Karamanova, E**, Grozdanov, A. VITRIFICATION OF HAZARDOUS Fe-Ni WASTES INTO GLASS-CERAMIC WITH FINE CRYSTALLINE STRUCTURE AND ELEVATED EXPLOITATION CHARACTERISTICS. Journal of Environmental Chemical Engineering, 5, ELSEVIER, 2017, DOI:http://dx.doi.org/10.1016/j.jece.2016.12.020, 432-441. SJR (Scopus):0.92, JCR-IF (Web of Science):0.01

Цитира се в:

1109. Gu, F., Zhang, Y., Peng, Z., Tang, H., Su, Z., & Jiang, T. (2021, March). Preparation of Refractory Materials by Co-sintering of Ferronickel Slag and Ferrochromium Slag: Thermodynamic Analysis. In Ni-Co 2021: The 5th International Symposium on Nickel and Cobalt (pp. 283-291). Springer International Publishing., **@2021** **1.000**

1110. Ma, B., Du, B.-Y., Yan, X.-F., Kang, G.-D. "Hazardous characteristics and mechanical properties of vitrification product of tungsten slag". Journal of Ecology and Rural Environment, 37 (9), art. no. 1673-4831(2021)09-1218-07, 1218-1224, 2021, **@2021** Линк **1.000**

1111. Ma, B., Yan, X., Zhao, Z., Hu, J., Zhang, H., Jiao, S. "Performance and Hazardous Characteristics of Vitrification Product of Chromium Dust from Stainless Steel". Research of Environmental Sciences, 34 (4), pp. 1006-1014, 2021, **@2021** Линк **1.000**

1112. Shang, W., Peng, Z., Huang, Y., Gu, F., Zhang, J., Tang, H., Yang, L., Tian, W., Rao, M., Li, G., Jiang, T. " Production of glass-ceramics from metallurgical slags". Journal of Cleaner Production, 317, 128220, 2021, **@2021** Линк **1.000**

1113. Shang, W., Peng, Z., Xu, F., Tang, H., Rao, M., Li, G., & Jiang, T. " Preparation of enstatite-spinel based glass-ceramics by co-utilization of ferronickel slag and coal fly ash". Ceramics International, 47(20), 29400-29409, 2021, **@2021** Линк **1.000**

1114. Trifunović, V. (2021). Vitrification as a method of soil remediation. Zaštita materijala, 62(3), 166-179, **@2021** **1.000**

1115. Yang, J., Duan, X., Liu, L., Yang, H., & Jiang, X." Recovery of Magnesium from Ferronickel Slag to Prepare Magnesium Oxide by Sulfuric Acid Leaching". Minerals, 11(12), 1375, 2021, **@2021** Линк **1.000**

382. Dikovska, AO, Pallotti, D, Lettieri, S, Atanasova, GB, **Avdeev, GV**, Maddalena, P, Amoruso, S, Nedyalkov, NN. Growth mechanism of ZnO nanostructures produced by ultraviolet and visible laser ablation. Applied Surface Science, 423, 2017, DOI:10.1016/j.apsusc.2017.06.331, 977-982. ISI IF:3.387

Цитира се в:

1116. Reddy, C.V., Reddy, I.N., Ravindranadh, K., Akkinepally, B., Alonso-Marroquin, F., Reddy, K.R., Cheolho, B., Shim, J., Effect of noble metal ions dopants on solar photoelectrochemical water splitting and electrochemical supercapacitive performance of BiVO4 hollow tubes, (2021) Solar Energy Materials and Solar Cells, 226, art. no. 111056., **@2021** Линк **1.000**

383. **Milchev, A**, Binder, K. Smectic C and nematic phases in strongly adsorbed layers of semiflexible polymers. Nano Letters, 17, 8, American Chemical Society, 2017, ISSN:1530-6984, 4924-4949. ISI IF:12.7

Цитира се в:

1117. Nikoubashman, A. "Ordering, phase behavior, and correlations of semiflexible polymers in confinement". Journal of Chemical Physics, 154 (9), art. no. 0038052, 2021, **@2021** Линк **1.000**

1118. Polotsky, A.A., Ivanova, A.S. "On the adsorption of a polymer chain with positive or negative bending stiffness onto a planar surface". Physica A: Statistical Mechanics and its Applications, 562, art. no. 125319, . 2021, **@2021** Линк **1.000**

1119. Zhang, R., Fall, W.S., Hall, K.W., Gehring, G.A., Zeng, X., Ungar, G. "Roughening Transition and Quasi-continuous Melting of Monolayers of Ultra-long Alkanes: Why Bulk Polymer Melting Is Strongly First-Order". Macromolecules, 54 (21), pp. 10135-10149, 2021, **@2021** Линк **1.000**

384. Nikoubashman, A, Vega, DA, Binder, K, **Milchev, Andrey**. Semiflexible Polymers in Spherical Confinement: Bipolar Orientational Order Versus Tennis Ball States. Physical Review Letters, 118, 21, American Physical Society, 2017, ISSN:0031-9007, 21780. ISI IF:8.46

Цитира се в:

1120. Poblete, S., Božič, A., Kanduč, M., Podgornik, R., Guzman, H.V. "RNA Secondary Structures Regulate Adsorption of Fragments onto Flat Substrates". ACS Omega, 6 (48), pp. 32823-32831, 2021, **@2021** Линк **1.000**

1121. Xu, Z., Dai, X., Bu, X., Yang, Y., Zhang, X., Man, X., Zhang, X., Doi, M., Yan, L.-T. "Enhanced Heterogeneous Diffusion of Nanoparticles in Semiflexible Networks". ACS Nano, 15 (3), pp. 4608-4616, 2021, **@2021** Линк **1.000**

1122. Zhu, G., Gao, L., Xu, Z., Dai, X., Zhang, X., Yan, L.-T. "Entropy-Driven Unconventional Crystallization of Spherical Colloidal Nanocrystals Confined in Wide Cylinders". Nano Letters, 21 (19), pp. 8439-8446, 2021, **@2021** Линк **1.000**

385. Taurino, R, **Karamanova, E**, Barbieri, L, **Atanasova-Vladimirova, S**, Andreola, F, **Karamanov, A**. New fired bricks based on municipal solid waste incinerator bottom ash. Waste Management & Research Vol, 35, 10, 2017, ISSN:0956-053X, 1055-1063. JCR-IF (Web of Science):1.803

Цитира се в:

1123. Bilgil, A. (2021). Szechy nska-Hebda, M.; Parzych, S.; Hebda, M. Eco-Friendly Fired Brick Produced from Industrial Ash and Natural Clay: A Study of Waste Reuse. Materials 2021, 14, 877., **@2021** **1.000**

1124. Doğan-Sağlamtimur, N., Bilgil, A., Szechyńska-Hebda, M., Parzych, S., Hebda, M. "Eco-Friendly Fired Brick Produced from Industrial Ash and Natural Clay: A Study of Waste Reuse". Materials, 14, 877, 2021, **@2021** Линк **1.000**

1125. Hamid, N.J.A., Kadir, A.A., Hashar, N.N.H., Hashim, A.A., Sarani, N.A., Hassan, M.I.H. "Effect of different heating rate on properties of fired brick produced from industrial waste and natural clay", Earth and Environmental Science 880, 012036, 2021, **@2021** Линк **1.000**

1126. Kizhakkethundathil Tomy, T., Pantazopoulou, S.J., Eldyasti, A. "Development of Sustainable Masonry Bricks Using Biological By-Products and Wastes". Journal of Materials in Civil Engineering, 33, 5, 2021, **@2021** Линк **1.000**

1127. Kizinievič, O., Voišnienė, V., Kizinievič, V., Pundienė, I " Impact of municipal solid waste incineration bottom ash on the properties and frost resistance of clay bricks"Journal of Material Cycles and Waste Management, 2021, **@2021** Линк **1.000**

386. Theodorakis, E, Egorov, S, **Milchev, A**. Stiffness-guided motion of a droplet on a solid substrate. J. Chemical Physics, 146, 24, AIP Publishing, 2017, 2447. SJR (Scopus):1.252, JCR-IF (Web of Science):2.965

Цитира се в:

1128. Palaia, I., Paraschiv, A., Debets, V.E., Storm, C., Šarić, A."Durotaxis of Passive Nanoparticles on Elastic Membranes" ACS Nano, 15 (10), pp. 15794-15802, 2021, **@2021** Линк **1.000**

1129. Tamim, S.I., Bostwick, J.B. "Model of spontaneous droplet transport on a soft viscoelastic substrate with nonuniform thickness". Physical Review E, 104 (3), art. no. 034611, 2021, **@2021** Линк **1.000**

387. Taurino, R, **Karamanov, A**, Rosa, R, **Karamanova, E**, Barbieri, L, **Atanasova-Vladimirova, S**, **Avdeev, G**, Leonelli, C. New ceramic materials from MSWI bottom ash obtained by a ninnovative microwave-assisted sintering process. Journal of the European Ceramic Society, 37, 1, 2017, 323-331. SJR:1.3, ISI IF:3.411

Цитира се в:

1130. Cheng, J., Shao, Z., Xu, T., Wei, W., Qiao, R., Yuan, Y. "Experimental research on sintering construction spoil bricks based on microwave heating technology". Environmental Science and Pollution Research, (2021), **@2021** Линк **1.000**

1131. Kizinievič, O., Voišnienė, V., Kizinievič, V., Pundienė, I. "Impact of municipal solid waste incineration bottom ash on the properties and frost resistance of clay bricks". Journal of Material Cycles and Waste Management, 2021, **@2021** Линк **1.000**

1132. Lemougna P.N., Yliniemi J., Adediran A., Luukkonen T., Tanskanen P., Finnilä M., Illikainen M. "Synthesis and characterization of porous ceramics from spodumene tailings and waste glass wool". Ceramics International, 47, 23, 33286 - 33297, 2021, **@2021** Линк **1.000**

1133. Lemougna, P. N., Adediran, A., Yliniemi, J., Luukkonen, T., & Illikainen, M. (2021). Effect of organic resin in glass wool waste and curing temperature on the synthesis and properties of alkali-activated pastes. Materials & Design, 212, 110287., **@2021** **1.000**

1134. Shekhovtsov V.V., Skripnikova N.K., Semenovykh M.A., Volokitin O.G. " Anorthite-Containing Building Ceramic Using Metallurgical Sludge Waste". Glass and Ceramics (English translation of Steklo i Keramika), 78, 5-6, 237 - 241, 2021, **@2021** Линк **1.000**

1135. Wang X., Zhang L., Zhu K., Li C., Zhang Y., Li A. "Efficiently sintering of MSWI fly ash at a low temperature enhanced by in-situ pressure assistant: Process performance and product characterization". Waste Management, 134, 21 - 31, 2021, **@2021** Линк **1.000**

1136. Скрипникова, Н.К., Семеновых, М.А, Шеховцов, В.В., О.А.Кунц, О.А. "ПОЛУЧЕНИЕ АНОРТИТОВОЙ КЕРАМИКИ С ИСПОЛЬЗОВАНИЕМ НЕКОНДИЦИОННОГО ВИДОВ СЫРЬЯ". Сборник научных трудов по материалам национальной Научно-технической конференции с международным участием - ЭФФЕКТИВНЫЕ МЕТОДОЛОГИИ И ТЕХНОЛОГИИ УПРАВЛЕНИЯ КАЧЕСТВОМ СТРОИТЕЛЬНЫХ МАТЕРИАЛОВ, 171 - 174, 2021., **@2021** Линк **1.000**

1137. ШЕХОВЦОВ В.В., СКРИПНИКОВА Н.К., СЕМЕНОВЫХ М.А., ВОЛОКИТИН О.Г. "АНОРТИТСОДЕРЖАЩАЯ СТРОИТЕЛЬНАЯ КЕРАМИКА С ИСПОЛЬЗОВАНИЕМ ШЛАМОВЫХ ОТХОДОВ МЕТАЛЛУРГИЧЕСКОГО ПРОИЗВОДСТВА". СТЕКЛО И КЕРАМИКА, 6, 29 - 35, 2021, **@2021** Линк **1.000**

388. Chatzitakis, A, Papaderakis, A, Karanasios, N, **Georgieva, J**, Pavlidou, E, Litsardakis, G, Poulios, I, Sotiropoulos, S. Comparison of the photoelectrochemical

performance of particulate and nanotube TiO2 photoanodes. Catalysis Today, 280, 1, Elsevier, 2017, ISSN:0920-5861, DOI:10.1016/j.cattod.2016.07.017, 14-20. SJR:1.348, ISI IF:4.636

Цитира се в:

1138. Blasco-Tamarit, E., Solsona, B., Sánchez-Tovar, R., García-García, D., Fernández-Domene, R.M., García-Antón, J. "Influence of annealing atmosphere on photoelectrochemical response of TiO2 nanotubes anodized under controlled hydrodynamic conditions". ournal of Electroanalytical Chemistry, 897, 115579, 2021, **@2021** Линк **1.000**

1139. Denisov, N., Zhou, X., Cha, G., Schmuki, P. "Photocurrent conversion efficiency of TiO2 nanotube photoanodes in dependence of illumination intensity". Electrochimica Acta 377, 137988, 2021, **@2021** Линк **1.000**

1140. Sánchez-Tovar, R., Blasco-Tamarit, E., Ibañez-Arlandis, L., Fernández-Domene, R.M., Roselló-Márquez, G., García-Antón, J. "Novel TiO2-WO3 self-ordered nanotubes used as photoanodes: Influence of Na2WO4 and H2O2 concentration during electrodeposition". Surface and Coatings Technology, 415, 127124, 2021, **@2021** Линк **1.000**

1141. Yalavarthi, R., Naldoni, A., Zbořil, R., Kment "Controlling phase fraction and crystal orientation via thermal oxidation of iron foils for enhanced photoelectrochemical performance". Catalysis Today, 361, 117-123, 2021, **@2021** Линк **1.000**

389. **Milchev, Andrey**, Egorov, S, Binder, K. Semiflexible polymers confined in a slit pore with attractive walls: two-dimensional liquid crystalline order versus capillary nematization. Soft Matter, 13, 9, Royal Society of Chemistry, 2017, ISSN:1744683X, 1888-1903. SJR:1.57, ISI IF:3.889

Цитира се в:

1142. Gurin, P., Odriozola, G., Varga, S. "Enhanced two-dimensional nematic order in slit-like pores". New Journal of Physics, 23 (6), art. no. 063053, 2021, **@2021** Линк **1.000**

1143. Nikoubashman, A. "Ordering, phase behavior, and correlations of semiflexible polymers in confinement". Journal of Chemical Physics, 154 (9), art. no. 0038052, 2021, **@2021** Линк **1.000**

390. Reusch, M, Cherneva, S, Lu, Y, Žukauskaitė, A, Kirste, L, HolcK., Datcheva, M, **Stoychev, D**, Lebedev, V, Ambacher, O. Microstructure and mechanical properties of stress tailored piezoelectric AlN thin films for electro-acoustic devices. Applied Surface Science, 407, 15 June, Elsevier, 2017, ISSN:0169-4332, DOI:http://dx.doi.org/10.1016/j.apsusc.2017.02.147, 307-314. SJR:0.93, ISI IF:4.439

Цитира се в:

1144. Amara, S., Kanouni, F., Laidoudi, F., Bouamama, K., Low loss surface acoustic wave SAW devices based on Al1-xMxN (M = Cr, Y, Sc) thin films, 2021 Physica B: Condensed Matter 615, 412990, , **@2021** **1.000**

1145. Ambartsumov M.G. , Tarala V.A. , Nikova M.S. , Krandievsky S.O. , Kozhitov L.V. , Influence of coating thickness on the microstructure, composition and optical properties of aluminum nitride thin films grown on silicon substrates via low-temperature PEALD, Surfaces and Interfaces, Volume 27, 2021, 101559, ISSN 2468-0230, https://doi.org/10.1016/j.surfin.2021.101559, **@2021** **1.000**

1146. Bîrleanu, C., Pustan, M., Șerdean, F., Merie, V., AFM Nanotribomechanical Characterization of Thin Films for MEMS Applications, Micromachines 13(1):23, December 2021 DOI: 10.3390/mi13010023, **@2021** **1.000**

1147. Cunha, C.L.A., Pimenta, T.C. & Fraga, M.A. Growth and properties of sputtered highly (100)-oriented oxygenated AlN thin films for SAW sensing applications. Microsyst Technol 27, 3773–3782 (2021). https://doi.org/10.1007/s00542-020-05165-1, **@2021** **1.000**

1148. El-ladan, A.H., Subramani, S. Development of AlNB alloy in (Al/AlN/B) stacking sequence using RF reactive sputtering towards thermal management application. J Mater Sci: Mater Electron 32, 577–589 (2021). https://doi.org/10.1007/s10854-020-04840-3, **@2021** **1.000**

1149. El-ladan, A.H., Subramani, S. Growth and performance analysis of BAlN alloy thin film on Al substrate as a heat spreader for effective thermal management applications on white-based high-power LED. Appl. Phys. A 127, 540 (2021). https://doi.org/10.1007/s00339-021-04617-3, **@2021** **1.000**

1150. Eledath, M., Chandran, M. Status review of the science and technology of PZT/diamond heterostructures and their applications. Journal of Materials Research (2021). https://doi.org/10.1557/s43578-021-00329-9, **@2021** **1.000**

1151. Laidoudi, F., Amara, S., Caliendo, C. et al. High quality and low loss surface acoustic wave SAW resonator based on chromium-doped AlN on sapphire. Applied Physics A: Materials Science and Processing 127(4), 255 (2021). https://doi.org/10.1007/s00339-021-04395-y, **@2021** **1.000**

1152. Lundh, J.S., Coleman, K., Song, Y., (...), Trolier-Mckinstry, S., Choi, S., Residual stress analysis of aluminum nitride piezoelectric micromachined ultrasonic transducers using Raman spectroscopy, 2021 Journal of Applied Physics 130(4), 56302, , **@2021** Линк **1.000**

1153. Zhu, W.Z., Assylbekova, M., McGruer, N.E, Limitations on MEMS design resulting from random stress gradient variations in sputtered thin films, 2021 Journal of Micromechanics and Microengineering 31(4), 045004 ., **@2021** **1.000**

391. Nikov, R, Dikovska, A O, Nedyalkov, NN, **Avdeev, G V**, Atanasov, P. Au Nanostructure Fabrication by Pulsed Laser Deposition in Open Air: Influence of the Deposition Geometry. BEILSTEIN JOURNAL OF NANOTECHNOLOGY, 2017, DOI:https://doi.org/10.3762/bjnano.8.242., 2438-2445. ISI IF:3.13

Цитира се в:

1154. Bonjakhi, M., Mahdieh, M.H., Fabrication of silver nanoparticle films by pulsed laser deposition in flowless open air and studying the effects of laser fluence and number of pulses, (2021) Colloids and Surfaces A: Physicochemical and Engineering Aspects, 626, art. no. 126990., **@2021** Линк **1.000**

1155. Deng, Z., Jia, Q., Feng, B., Liu, L., Research progress on fabrication and applications of high-performance films by pulsed laser deposition [脉冲激光沉积高性能薄膜制备及其应用研究进展], (2021) Zhongguo Jiguang/Chinese Journal of Lasers, 48 (8), art. no. 0802010., **@2021** Линк **1.000**

1156. Socol, M., Preda, N., Socol, G., Organic thin films deposited by matrix-assisted pulsed laser evaporation (MAPLE) for photovoltaic cell applications: A review, (2021) Coatings, 11 (11), art. no. 1368., **@2021** Линк **1.000**

392. **Popova, H.**, **Milchev, A.**, Egorov, S. A.. "Modeling the interfacial tension dependence on composition and stiffness of nonionic surfactants on liquid–liquid interfaces". Colloids and Surfaces A: Physicochemical and Engineering Aspects, 519, Elsevier, 2017, ISSN:0927-7757, DOI:10.1016/j.colsurfa.2016.05.056, 168-178. SJR (Scopus):0.831, JCR-IF (Web of Science):2.714

Цитира се в:

1157. Glagoleva, A. A., Vasilevskaya, V. V. "Multichain adsorption at fluid interfaces: Amphiphilic homopolymers vs copolymers". Journal of Colloid and Interface Science 585, 408-419, 2021, **@2021** Линк **1.000**

393. Dimova, D., Pisov, S., **Panchev, N.**, Nedyalkova, M., Madurga, S., Proykova, A.. Insight into electric field-induced rupture mechanism of water-in-toluene emulsion films from a model system. Journal of Chemical Physics, 146, 19, AIP, 2017, ISSN:0021-9606, DOI:doi.org/10.1063/1.4983163, 194703. SJR (Scopus):1.252, JCR-IF (Web of Science):2.965

Цитира се в:

1158. Ahmadi, M., Chen, Z., MD simulations of oil-in-water/water-in-oil emulsions during surfactant-steam co-injection in bitumen recovery, Fuel, 122718, DOI: 10.1016/j.fuel.2021.122718, (2021), **@2021** Линк **1.000**

1159. Zahan R., Ahmed S., Sharmin T., Halim M.A., Rahi M.S., Sheikh M.C., Miyatake R., Zangrando E., Naz T., Islam M.A.-A.-A.-A., Reza M.A., Synthesis of bis[benzyl-N'-hydrazinecarbodithioato-κ2 N', S]nickel(II) complex as a novel lead molecule for cancer treatment, Applied Organometallic Chemistry, 35(1), e6036 DOI: 10.1002/aoc.6036 (2021), **@2021** Линк **1.000**

394. Milanova, V, **Atanasova, S**, **Avdeev, G**, Markova, I. MORPHOLOGY OF INTERMETALLIC (Co-Sn, Ni-Sn) NANOPARTICLES, ELECTROCHEMICALY TESTED AS ELECTRODES IN Li-ION BATTERY. Journal of Chemical Technology and Metallurgy, 52, 3, 2017, ISSN:1314-7978, 542-556. SJR (Scopus):0.196

Цитира се в:

1160. Kong, N., Yu, Y., & Yang, X." Electrospun Tin Based Composites as Anodes for Lithium-Ion Batteries". Electrospinning for Advanced Energy Storage Applications, 373-392, 2021, **@2021** Линк **1.000**

395. Goycoolea, F.M., **Milkova, V.**. Electrokinetic behavior of chitosan adsorbed on o/w nanoemulsion droplets. Colloids and Surfaces A, 519, Elsevier, 2017, ISSN:0927-7757, DOI:doi.org/10.1016/j.colsurfa.2016.05.093, 205-211. ISI IF:2.714

Цитира се в:

1161. Alexandra Johanna Zander, Development of nanopartilces drug delivery systems for cytoststic application in PIPAC, PhD thesis., **@2021** **1.000**

396. Krzyżewski, F., Załuska-Kotur, M., Krasteva, A., **Popova, H.**, **Tonchev, V.**. Step bunching and macrostep formation in 1D atomistic scale model of unstable vicinal crystal growth. Journal of Crystal Growth, 474, Elsevier, 2017, ISSN:0022-0248, DOI:10.1016/j.jcrysgro.2016.11.121, 135-139. SJR (Scopus):0.735, JCR-IF (Web of Science):1.751

Цитира се в:

1162. Benoit–Maréchal , L., Jabbour, M. E., and Triantafyllidis, N. "Scaling laws for step bunching on vicinal surfaces: Role of the dynamical and chemical effects". Phys. Rev. E 104, 034802, 2021, **@2021** Линк **1.000**

2018

397. Shahir A. A., **Khristov Khr.**, Nguyen K. T., Nguyen A. V., **Mileva E.**. Combined Sum Frequency Generation and Thin Liquid Film Study of the Specific Effect of Monovalent Cations on the Interfacial Water Structure. Langmuir, 34, ACS, 2018, ISSN:07437463, 6844-6855. SJR (Scopus):1.48, JCR-IF (Web of Science):3.683

Цитира се в:

1163. Fariba Asadi "Macroscopic and Microscopic understanding of the effects of additives (salts, surfactants, and polymers) on gas hydrate formation" PhD Thesis, School of Chemical Engineering, University of Queensland, **@2021** Линк **1.000**

1164. Md Rubel Khan "Adsorption and Self-Assembly of Surfactants at Air-Liquid and Liquid-Metal Interfaces Studied by Sum Frequency Generation (SFG) Spectroscopy" PhD Thesis, College of Arts and Sciences of Ohio University, August 2021, **@2021** Линк **1.000**

398. Michailova V., Momekova D., Velichkova H., Ivanov E., Kotsilkova R., Karashanova D., **Mileva E.**, Dimitrov I., Rangelov S.. Self-Assembly of a Thermally Responsive Double-Hydrophilic Copolymer in Ethanol−Water Mixtures: The Effect of Preferential Adsorption and Co-Nonsolvency. J. Phys. Chem. B, 122, 22, ACS, 2018, ISSN:1520-6106, DOI:DOI: 10.1021/acs.jpcb.8b01746, 6072-6078. SJR (Scopus):1.348, JCR-IF (Web of Science):2.923

Цитира се в:

1165. Katja Nothdurft, "Cononsolvency of Microgels: Equilibrium and Dynamics" PhD Thesis Fakultät für Mathematik, Informatik und Naturwissenschaften der RWTH Aachen University, Germany, **@2021** Линк **1.000**

1166. Korpanty, J., Parent, L.R., Hampu, N., Weigand, S., Gianneschi, N.C. "Thermoresponsive polymer assemblies via variable temperature liquid-phase transmission electron microscopy and small angle X-ray scattering" Nature Communications 12(1), 6568, https://doi.org/10.1038/s41467-021-26773-z, **@2021** Линк **1.000**

1167. Lima, L.R.M., Ramos, E.L.D.L., Silva, M.F.S., (...), Paula, H.C.B., de Paula, R.C.M. "Poly(N-isopropylacrylamide)/galactomannan from Delonix regia seed thermal responsive graft copolymer via Schiff base reaction". International Journal of Biological Macromolecules, 166, pp. 144-154 (2021), **@2021** Линк **1.000**

1168. Uehara Nobuo, Masubuchi Yoshiki, Inagawa Arinori "Manipulation of aggregation-induced emission of thermoresponsive fluorescent polymers having Au(I)–S groups for a fluorescent chemosensor" Colloids and Surfaces A: Physicochemical and Engineering Aspects 618 (2021) 126459 https://doi.org/10.1016/j.colsurfa.2021.126459, **@2021** Линк **1.000**

399. **Peshova. M**, **Bachvarov. V**, Vitkova. St, Atanasova. G, **Boshkov. N**. "Electrodeposited zinc composite coatings with embedded carbon nanotubes – advanced composite materials for better corrosion protection". TRANSACTIONS OF THE IMF, 96, 6, Taylor and Francis, 2018, ISSN:1745-9192, DOI:10.1080/00202967.2018.1520486, 324-331. SJR (Scopus):0.282, JCR-IF (Web of Science):0.806

Цитира се в:

1169. Ouyang, YB., Cao, Q., Li, BZ., Miller, RHB., Qiu, R., Yang, XY., Huang, CY., Hu, SG., Niu, HL., "Nanofluid-infused slippery surface: Bioinspired coating on Zn with high corrosion inhibition performance", Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 608, 125492, 2021., **@2021** Линк **1.000**

1170. Punith Kumar, M. K., Rekha, M. Y., Srivastava, Chandan., "Electrogalvanization using new generation coatings with carbonaceous additives: progress and challenges", Corrosion Reviews, vol. 39, no. 1, pp. 15-26, 2021., **@2021** Линк **1.000**

400. **Chakarova, V.**, Boiadjieva-Scherzer, Tz., Kovacheva, D., Kronberger, H., **Monev, M.**. Corrosion behaviour of electrodeposited Zn-Cr alloy coatings. Corrosion Science, 140, Elsevier Ltd, 2018, ISSN:0010-938X, DOI:10.1016/j.corsci.2018.06.019, 73-78. SJR (Scopus):1.846, JCR-IF (Web of Science):6.355

Цитира се в:

1171. Du, M., Miao, Z., Li, H., Sang, Y., Liu, H., & Wang, S. "Strategies of structural and defect engineering for high-performance rechargeable aqueous zinc-ion batteries." J. Mater. Chem. A, 9, 19245-19281, 2021, **@2021** Линк **1.000**

1172. Manna, M., Dutta, M. & Bhagat, A.N., "Microstructure and Electrochemical Performance Evaluation of Zn, Zn-5 wt.% Al and Zn-20 wt.% Al Alloy Coated Steels", J. of Materi Eng and Perform, 30, 627–637, 2021, **@2021** Линк **1.000**

1173. Tahraoui, L., Diafi, M., Aidi, A., Benhaoua, B, "Chromium-rich zn-cr alloys: electrochemical deposition, structure and corrosion resistance.", Digest Journal of Nanomaterials & Biostructures (DJNB), 16 (1), Jan-Mar 2021, p 191-196., **@2021** **1.000**

1174. Tahraoui, L., Diafi, M., Fadel, A., "The influence of Chromium concentration on the corrosion resistance of the electrodeposited Zn–Co–Cr alloys", Digest Journal of Nanomaterials and Biostructures, 16(2), 555 -561, 2021, **@2021** **1.000**

1175. Zhuang, R., Tan, Y., Liu, Y., Ouyang, Y., Du, Y. "Interdiffusion behaviors and mechanical properties of Zn–Cr system", Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 74, 102308, 2021, **@2021** Линк **1.000**

401. Cherneva S., **Guergova D.**, Iankov R., **Stoychev D.**. Study of the mechanical properties of single- layer and multi-layer metallic coatings with protective-decorative applications. MATEC Web of Conferences Vol.145, 02002 (2018), NCTAM 2017 – 13th National Congress on Theoretical and Applied Mechanics, 145, 02002, 145, MATEC Web of Conferences, 2018, DOI:https://doi.org/10.1051/matecconf/201814502002, SJR (Scopus):0.169

Цитира се в:

1176. Masood Shumaila , Zafar Fahmina and Nishat Nahid , Green flame retardant material from cashew nut shell liquid, Inorganic Materials Research Laboratory, Department of Chemistry, Jamia Millia Islamia, Chapter 25, pp.663-679 Fire is the first Applications of Advanced Green Materials. DOI: https://doi.org/10.1016/B978-0-12-820484-9.00025-8 2021 Elsevier Ltd. All rights reserved, **@2021** **1.000**

1177. Mopon, M.L., Garcia, J.S., Manguerra, D.M., Narisma, C.J.C., Corrosion behavior of aa 1100 anodized in gallic-sulfuric acid solution, 2021 Coatings 11(4), 405 DOI: 10.3390/coatings11040405 LicenseCC BY 4.0 Marlon L. MoponJayson S. GarciaDexter M. ManguerraCyril John C. Narisma, **@2021** Линк **1.000**

402. **Andreeva R.**, **Stoyanova, E.**, Tsanev, A., Datcheva, M., **Stoychev, D.**. "On the Role of pre-treatment of Aluminum Substrate on Deposition of Cerium Based Conversion Layers and Their Corrosion-Protective Ability". Int. J. Electrochem. Sci., 13 (2018) 5333-5351, 13, 6, 2018, DOI:10.20964/2018.06.71, 5333-5351. JCR-IF (Web of Science):2.531

Цитира се в:

1178. Alba-Galvín, J.J., González-Rovira, L., Botana, F.J., (...), Fedrizzi, L., Bethencourt, M., Application of commercial surface pretreatments on the formation of cerium conversion coating (Cecc) over high-strength aluminum alloys 2024-t3 and 7075-t6, 2021 Metals, 11(6), 930 DOI10.3390/met11060930 PublishedJUN 2021, **@2021** Линк **1.000**

403. **Nakova A.**, **Ilieva M.**, Boiadjieva-Scherzer T., **Tsakova V.**. Electroless deposition of palladium nanoparticles on poly(3,4-ethylene-dioxythiophene)—role of the electrode substrate. Journal of Solid State Electrochemistry, 22, 6, Springer, 2018, ISSN:14328488, DOI:10.1007/s10008-018-3900-8, 1901-1908. JCR-IF (Web of Science):2.531

Цитира се в:

1179. Shaari, H. A. H. , Ramli, M. M., Mohtar, M. N., Rahman, N. A., Ahmad, A., "Synthesis and conductivity studies of poly(methylmethacrylate) (PMMA) by co-polymerization and blending with polyaniline (PANi)", Polymers, 13 (12), 1939, 2021, **@2021** **1.000**

404. Nikov R. G., Dikovska A. O., Atanasova G. B., **Avdeev G. V.**, Nedyalkov N. N.. Magnetic-field-assisted formation of oriented nanowires produced by pld in open air. Applied Surface Science, 458, Elsevier B.V, 2018, ISSN:01694332, DOI:10.1016/j.apsusc.2018.07.109, 273-280. SJR (Scopus):1.115, JCR-IF (Web of

Science):5.155

Цитира се в:

1180. Ismail, R.A., Shaker, S.S., Mousa, A.M., Study the optoelectronic properties of PbI2 nanorods/Si photodetector prepared by magnetic field-assisted laser deposition route, (2021) Optics and Laser Technology, 140, art. no. 107042, . Cited 1 time., **@2021** Линк **1.000**

1181. Socol, M., Preda, N., Socol, G., Organic thin films deposited by matrix-assisted pulsed laser evaporation (MAPLE) for photovoltaic cell applications: A review, (2021) Coatings, 11 (11), art. no. 1368, ., **@2021** Линк **1.000**

405. **Kamburova, K.**, **Radeva, Ts**. Polyelectrolyte-modified kaolinite nanocontainers for entrapment of corrosion inhibitor benzotriazole. Colloid and Polymer Science, 296, 7, 2018, DOI:10.1007/s00396-018-4336-5, 1157-1164. JCR-IF (Web of Science):1.906

Цитира се в:

1182. Zhou, S., Surface electrostatic force in presence of dimer counter-ion, Journal of Molecular Liquids, 328, art. no. 115225 (2021), **@2021** Линк **1.000**

406. **Karamanov Alexander**, Kamusheva Alexandra, Karashanova Daniela, **Ranguelov Bogdan**, **Avdeev Georgi**. Structure of glass-ceramic from Fe-Ni wastes. Materials Letters, 223, Elsevier, 2018, DOI:10.1016/j.matlet.2018.04.036, 86-89. SJR (Scopus):0.78, JCR-IF (Web of Science):3.019

Цитира се в:

1183. Ghosh, S., Das, R., Bakshi, M., Mahanty, S., Chaudhuri, P. "Potentially toxic element and microplastic contamination in the river Hooghly: Implications to better water quality management". Journal of Earth System Science, 130 (4), art. no. 236, 2021, **@2021** Линк **1.000**

1184. Zhang, J., Liu, B., Zhang, S. " A review of glass ceramic foams prepared from solid wastes: Processing, heavy-metal solidification and volatilization, applications". Science of the Total Environment, 781, art. no. 146727, 2021, **@2021** Линк **1.000**

407. Tabakova T., Ivanov I., Karakirova Y., Karashanova D., Venezia A., Petrova P., **Avdeev G**, Kolentsova E., Ivanov K.. Promotional Effect of Gold on the WGS Activity of Alumina-Supported Copper-Manganese Mixed Oxides. Catalysts, 8, 11, MDPI AG, 2018, ISSN:20734344, DOI:10.3390/catal8110563, 563-581. SJR (Scopus):0.86, JCR-IF (Web of Science):3.444

Цитира се в:

1185. González-Castaño, M., González-Arias, J., Sánchez, M.E., Cara-Jiménez, J., Arellano-García, H., Syngas production using CO2-rich residues: From ideal to real operating conditions, (2021) Journal of CO2 Utilization, 52, art. no. 101661, ., **@2021** Линк **1.000**

408. Greco, G, **Tatchev, D**, Hoell, A, Krumrey, M, Raoux, S, Hahn, R, Ellia, G A. Influence of the electrode nano/microstructure on the electrochemical properties of graphite in aluminum batteries. Journal of Materials Chemistry A, 6, The Royal Society of Chemistry, 2018, ISSN:2050-7488, DOI:10.1039/C8TA08319C, 22673-22680. JCR-IF (Web of Science):10.733

Цитира се в:

1186. He, S., Zhang, D., Zhang, X., Shiqi, Zh., Chu, W., Yu, H. "Rechargeable Al-Chalcogen Batteries: Status, Challenges, and Perspectives", Advanced Energy Materials 11(29), 2100769, **@2021** Линк **1.000**

1187. Li, C., Rath, P.C., Lu, S.-X., Patra, J., Su, C.-Y., Bresser, D., Passerini, S., Chang, J.-K. "Ordered nano-structured mesoporous CMK-8 and other carbonaceous positive electrodes for rechargeable aluminum batteries" (2021) Chemical Engineering Journal, 417, art. no. 129131, , **@2021** Линк **1.000**

1188. Wang, S., Kovalenko, M.V., Kravchyk, K.V. "AlCl3-Saturated Ionic Liquid Anolyte with an Excess of AlCl3 for Al–Graphite Dual-Ion Batteries"(2021) Batteries and Supercaps, 4 (6), pp. 929-933., **@2021** Линк **1.000**

409. Dimowa, L., **Piroeva, I.**, **Atanasova-Vladimirova, S**, Rusew, R., Shivachev, B.. Structural peculiarities of natural chabazite modified by ZnCl2 and NiCl2. Bulgarian Chemical Communications, 50, Special Issue J, 2018, ISSN:0324-1130, 114-122. SJR (Scopus):0.137

Цитира се в:

1189. Alabbad, E.A. "Efficacy assessment of natural zeolite containing wastewater on the adsorption behaviour of Direct Yellow 50 from; equilibrium, kinetics and thermodynamic studies"., Arabian Journal of Chemistry, 14, 4, 103041, 2021, **@2021** Линк **1.000**

1190. Fu, D., Park, Y., Davis, M.E. "Zinc Containing Small-Pore Zeolites for Capture of Low Concentration Carbon Dioxide". Angewandte Chemie, 2021, **@2021** Линк **1.000**

1191. Grijalva, H. M. G., Ibarra, J. A. , Zamarrón Pulé, M. F. Peralta, J. E . "Removal of Eriochrome Black T from water using a chitosan/zeolite composite: a kinetic study". Biotecnia, 23, 3, 158 - 166, 2021., **@2021** Линк **1.000**

410. **Dimitrova, N**, **Georgieva, J**, Sotiropoulos, S, Boiadjieva-Scherzer, Tz, **Valova, E**, **Armyanov, S**, Steenhaut, O, Hubin, A, Karashanova, D. Pt(Cu) catalyst on TiO2 powder support prepared by photodeposition-galvanic replacement method. Journal of Electroanalytical Chemistry, 823, Elsevier, 2018, DOI:https://doi.org/10.1016/j.jelechem.2018.07.010, 624-632. JCR-IF (Web of Science):3.218

Цитира се в:

1192. Hekmat M., Rostamian F., Shafiekhani A., “Improving solar cells characteristics by tuning the density distribution of deep trapping states using Au@DLC decorated on photoanodes”, Materials Science in Semiconductor Processing, 128, 105782 (2021), **@2021** Линк **1.000**

411. Cholakova, T., Chitanov, V., Kolaklieva, L., Kakanakov, R., **Ranguelov, B.**, **Atanasova, S.**, Stefanov, P., Atanasova, G., Balashev, K.. Ti- and Cr-based hard

coatings obtained at low temperatures by unbalanced magnetron sputtering. Journal of Physics: Conference Series, 992, (1), IOP Publishing, 2018, ISSN:1742-6588, DOI:10.1088/1742-6596/992/1/012030, 1-8. SJR (Scopus):0.221

Цитира се в:

1193. Liu, Y., Liu, H.D., Pelenovich, V., Wan, Q., Guo, J.L., Chen, Y.M., Zhang, J., Xue, L.J., Li, Z.G., Yang, B. "Influences of modulation period on structure and properties of AlTiSiN/AlCrSiN nanocomposite multilayer coatings". Vacuum, 193, art. no. 110516, 2021, **@2021** Линк **1.000**

412. Olzat Toktarbaiuly, Victor Usov, Cormac Ó Coileáin, Katarzyna Siewierska, Sergey Krasnikov, Emma Norton, Sergey I. Bozhko, Valery N. Semenov, Alexander N. Chaika, Barry E. Murphy, Olaf Lübben, Filip Krzyzewski, Magdalena Zaluska-Kotur, Anna Krasteva, **Hristina Popova**, Vesselin Tonchev, Igor V. Shvets. Step bunching with both directions of the current: Vicinal W(110) surfaces versus atomistic-scale model. Physical Review B, 97, 035436, APS, 2018, ISSN:2469-9969 (online), DOI:10.1103/PhysRevB.97.035436, 035436-1-035436-8. JCR-IF (Web of Science):3.736

Цитира се в:

1194. Benoit–Maréchal , L., Jabbour, M. E., and Triantafyllidis, N. "Scaling laws for step bunching on vicinal surfaces: Role of the dynamical and chemical effects". Phys. Rev. E 104, 034802, 2021, **@2021** Линк **1.000**

1195. Dvornichenko, A.V. "Electromigration Effects at Epitaxial Growth of Thin Films: Phase-Field Modeling". Ukrainian Journal of Physics 66, 439, 2021, **@2021** Линк **1.000**

1196. Dvornichenko, A.V., Kharchenko, V.O., and Kharchenko, D.O. "Electromigration-induced formation of percolating adsorbate islands during condensation from the gaseous phase: a computational study". Beilstein J. Nanotechnol. 12, 694–703, 2021, **@2021** Линк **1.000**

413. Stankova, N, Atanasov, P, Nedyalkov, N, **Tatchev, D**, Kolev, K, **Valova, E**, **Armyanov, S**, Grochowska, K, Śliwiński, G, Fukata, N, Hirsch, D, Rauschenbach, B. Laser-induced surface modification of biopolymers – micro/nanostructuring and functionalization. Journal of Physics: Conference Series, 992, 1, IOP Publishing Ltd, 2018, DOI:DOI:10.1088/1742-6596/992/1/012051, 012051-012059. SJR (Scopus):0.24

Цитира се в:

1197. Kaczorowski W., Swiiatek H., Łuczak K., Głuszek M., M. Cłapa, „ Impact of Plasma Pre-Treatment on the Tribological Properties of DLC Coatings on PDMS Substrates“, Materials, 14, 433, 13 pages (2021), **@2021** Линк **1.000**

414. **Armyanov, S**, **Valova, E**, **Tatchev, D**, **Georgieva, J**. Electroless deposited ternary alloys: third element chemical state, localisation and influence on the properties. A short review. Transactions of the Institute of Metal Finishing, 96, 1, Taylor & Francis Ltd, 2018, ISSN:Print ISSN: 0020-2967 Online ISSN: 1745-9192, DOI:10.1080/00202967.2017.1364375, 12-19. JCR-IF (Web of Science):0.806

Цитира се в:

1198. Mahalingam D. K., Bera P., “Characterization and microhardness of Ni−W−P coatings electrodeposited with gluconate bath”, Surf. & Interfaces, 22, 100769 (2021), , **@2021** Линк **1.000**

1199. Tian S.-s., Sun W.-c., Liu Y.-w., Jia Y.-p., Xiao Y., “Effect of Na2WO4 concentration on the microstructure and corrosion behavior of Ni-W-P ternary alloy coatings”, Materials Research, 24 (4), e20200580 (2021), **@2021** Линк **1.000**

415. Kostov-Kytin, V., Nikolova, R, **Avdeev G.**. XRD study on the structural evolution of Zn-exchanged titanosilicate ETS-4 during thermal treatment. Bulgarian Chemical Communications, 50, 2018, 62-72. SJR (Scopus):0.18

Цитира се в:

1200. Choi, O., Kim, Y., Jeon, J.-D., Kim, T.-H., Preparation of thin film nanocomposite hollow fiber membranes with polydopamine-encapsulated Engelhard titanosilicate-4 for gas separation applications, (2021) Journal of Membrane Science, 620, art. no. 118946., **@2021** Линк **1.000**

416. Smiljanić, S, **Karamanova, Emilia**, Grujić, S, Rogan, J, Stojanović, J, **Karamanov, Alexander**. Sintering, crystallization and foaming of La2O3·SrO·5B2O3 glass powders - effect of the holding temperature and the heating rate. Journal of Non-Crystalline Solids, 481, Elsevier, 2018, 375-382. SJR (Scopus):0.69, JCR-IF (Web of Science):2.6

Цитира се в:

1201. Kurtulus, C., Kurtulus, R., & Kavas, T. (2021). Foam glass derived from ferrochrome slag and waste container glass: synthesis and extensive characterizations. Ceramics International. Volume 47, Issue 17, 1 September 2021, Pages 24997-25008, **@2021** **1.000**

1202. Prasad, S., Fábián, M., Tarafder, A., Kant, S., Sinha, P. K., Tripathy, S., ... & Biswas, K. (2021). Factors governing the sinterability, In vitro dissolution, apatite formation and antibacterial properties in B2O3 incorporated S53P4 based glass powders. Ceramics International., **@2021** **1.000**

417. **Kamburova, K.**, **Boshkova, N.**, **Boshkov, N**, Atanassova, G., **Radeva, Ts**. Hybrid zinc coatings for corrosion protection of steel using polyelectrolyte nanocontainers loaded with benzotriazole. Colloids and Surfaces A, 559, 2018, 234-250. JCR-IF (Web of Science):3.131

Цитира се в:

1203. Ardakani, E.K., Kowsari, E., Ehsani, A., Ramakrishna, S., Performance of all ionic liquids as the eco-friendly and sustainable compounds in inhibiting corrosion in various media: A comprehensive review, Microchemical Journal, 165, art. no. 106049 (2021), **@2021** Линк **1.000**

1204. Javaherdashti, R., & Sarjahani, R. (2021). An Overview of the Effect of Graphene as a Metal Protector Against Microbiologically Influenced Corrosion (MIC). Corrosion Protection of Metals and Alloys Using Graphene and Biopolymer Based Nanocomposites, 149-168., **@2021** Линк **1.000**

1205. Lee, K., Cavazos C. G., Rouse J. Wei X., Li M., Wei S., Advanced Micro/Nanocapsules for Self-healing Smart Anticorrosion Coatings: A Review of Recent Developments, Book Chapter in Corrosion Protection of Metals and Alloys Using Graphene and Biopolymer Based Nanocomposites, Edited by Hatem M.A. Amin, Ahmed Galal, CRC Press, (2021) https://doi.org/10.1201/9781315171364, **@2021** Линк **1.000**

1206. Muresan, A.C., Buruiana, D.L., Carp, G.B., Berbece, S., Trus, C., Evaluation of corrosion resistance in 3.5% NaCl solution of hybrid coatings obtained from plastics materials, Materiale Plastice, 58 (1), 201-209 (2021), **@2021** Линк **1.000**

2019

418. **Nakova, A**, **Ilieva, M**, Boijadjieva-Scherzer, Ts, **Tsakova, V**. "Glycerol oxidation on Pd nanocatalysts obtained on PEDOT-coated graphite supports". Electrochimica Acta, 306, Elsevier Ltd., 2019, ISSN:0013-4686, DOI:https://doi.org/10.1016/j.electacta.2019.03.151, 643-650. SJR (Scopus):1.365, JCR-IF (Web of Science):5.383

Цитира се в:

1207. Luo, H., Barrio, J., Sunny, N. , Li, A., Steier, L. , Shah, N. , Stephens, I. E. L., Titirici, M.-M., "Progress and Perspectives in Photo- and Electrochemical-Oxidation of Biomass for Sustainable Chemicals and Hydrogen Production", Advanced Energy Materials 11 (43), 2101180, 2021, **@2021** **1.000**

419. **Ranguelov, B.**, Nanev, C.. 2D Monte Carlo simulation of patchy particles association and protein crystal polymorph selection. Crystals, 10, 9, art. no. 508, MDPI (Multidisciplinary Digital Publishing Institute), 2019, ISSN:2073-4352, DOI:10.3390/cryst9100508, JCR-IF (Web of Science):2.061

Цитира се в:

1208. Maier, R., Sohmen, B., Da Vela, S., Matsarskaia, O., Beck, C., Schweins, R., Seydel, T., Zhang, F., Schreiber, F. "Protein Crystallization from a Preordered Metastable Intermediate Phase Followed by Real-Time Small-Angle Neutron Scattering". Crystal Growth and Design, 21 (12), pp. 6971-6980, 2021, **@2021** Линк **1.000**

420. Tzankov, B (Tzankov, Borislav), Voycheva, C (Voycheva, Christ, Aluani, D (Aluani, Denitsa), Yordanov, Y (Yordanov, Yordan), **Avramova, K (Avramova, Kati)**, Tzankova, V (Tzankova, Virgini, Spassova, I (Spassova, Ivanka), Kovacheva, D (Kovacheva, Danie, Yoncheva, K (Yoncheva, Krassim. Improvement of dissolution of poorly soluble glimepiride by loading on two types of mesoporous silica carriers. JOURNAL OF SOLID STATE CHEMISTRY, 271, 2019, DOI:j.jssc.2018.12.062, 253-259. SJR (Scopus):0.594, JCR-IF (Web of Science):2.291

Цитира се в:

1209. Galabova, BB, Mesoporous silica nanoparticles: Synthesis, functionalization, drug loading and release - A review TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH, 20 (5) , pp.1091-1100 2021 |, **@2021** **1.000**

421. Dikovska A. O., Nedyalkov N. N., Dilova T., Atanasova G., **Avdeev G.**, Stefanov P.. Gas-sensing properties of metal-oxide nanostructures produced by PLD. Proceedings of SPIE - The International Society for Optical Engineering, 11047, SPIE, 2019, ISBN:9781510627680, DOI:10.1117/12.2516753, 43. SJR (Scopus):0.24

Цитира се в:

1210. Bonjakhi, M., Mahdieh, M.H., Fabrication of silver nanoparticle films by pulsed laser deposition in flowless open air and studying the effects of laser fluence and number of pulses, (2021) Colloids and Surfaces A: Physicochemical and Engineering Aspects, 626, art. no. 126990., **@2021** Линк **1.000**

422. **Jordanov, N.B.**. Electrodeposition of amorphous Ni–P layers, thermal treatment and corrosion behaviour. Transactions of the Institute of Metal Finishing, 97, 3, Taylor and Francis, 2019, ISSN:0020-2967, DOI:https://doi.org/10.1080/00202967.2019.1587261, 115-120. SJR (Scopus):0.232, JCR-IF (Web of Science):0.806

Цитира се в:

1211. Mahalingam, D. K., Bera, P. (2020). Characterization and microhardness of Ni− W− P coatings electrodeposited with gluconate bath, Surfaces and Interfaces 100769 (2021). ISSN: 2468-0230, **@2021** Линк **1.000**

1212. Mahalingam, D.K., Bera, P., Characterization and microhardness of Ni−W−P coatings electrodeposited with gluconate bath, Surfaces and Interfaces 22 (2021) 100769. ISSN: 2468-0230, **@2021** **1.000**

423. **Milchev, A. I.**, Nikoubashman, A., Binder, K.. The smectic phase in semiflexible polymer materials: A large scale molecular dynamics study. Elsevier, 166, Computational Materials Science, 2019, DOI:https://doi.org/10.1016/j.commatsci.2019.04.017, 230-239. SJR (Scopus):0.812, JCR-IF (Web of Science):2.644

Цитира се в:

1213. Herranz, M., Martínez-Fernández, D., Ramos, P.M., Foteinopoulou, K., Karayiannis, N.C., Laso, M. "Simu-D: A simulator-descriptor suite for polymer-based systems under extreme conditions". International Journal of Molecular Sciences, 22 (22), art. no. 12464, 2021, **@2021** Линк **1.000**

424. Milenov T, Dikovska A.O., **Avdeev G**, Avramova I, Kirilov K, Karashanova D.B., Terziyska P, Georgieva B, Arnaudov B, Kolev S, Valcheva E. Pulsed laser deposition of thin carbon films on SiO 2 /Si substrates. Appl. Surf. Sci., 2019, ISSN:480, DOI:https://doi.org/10.1016/j.apsusc.2019.02.220, 323-329. SJR (Scopus):1.23

Цитира се в:

1214. Liu, Z., Zhao, G., Guo, C., Chen, L., Chen, M., Liu, H., Han, K., Spatially and temporally resolved evaluation of local thermodynamic equilibrium for laser- **1.000**

induced plasma in a high vacuum, (2021) Journal of Analytical Atomic Spectrometry, 36 (11), pp. 2362-2369., **@2021** Линк

425. Richert, M., **Gochev, G.**, Braunschweig, B.. Specific Ion Effects of Trivalent Cations on the Structure and Charging State of β-Lactoglobulin Adsorption Layer. Langmuir, 35, 35, ACS, 2019, 11299-11307. SJR (Scopus):1.21, JCR-IF (Web of Science):3.683

Цитира се в:

1215. Fries, M. R., Conzelmann, N. F., Günter, L., Matsarskaia, O., Skoda, M. W. A., Jacobs, R. M. J., Zhang, F., Schreiber, F. (2021). Bulk phase behavior vs interface adsorption: Specific multivalent cation and anion effects on BSA interactions. Langmuir, 37(1), 139-150. doi:10.1021/acs.langmuir.0c02618, **@2021** Линк **1.000**

1216. Fries, M. R., Skoda, M. W. A., Conzelmann, N. F., Jacobs, R. M. J., Maier, R., Scheffczyk, N., . . . Schreiber, F. (2021). Bulk phase behaviour vs interface adsorption: Effects of anions and isotopes on β-lactoglobulin (BLG) interactions. Journal of Colloid and Interface Science, 598, 430-443. doi:10.1016/j.jcis.2021.04.011, **@2021** Линк **1.000**

1217. Lu, H., Huang, Y. -., Hunger, J., Gebauer, D., Cölfen, H., & Bonn, M. (2021). Role of water in CaCO3Biomineralization. Journal of the American Chemical Society, 143(4), 1758-1762. doi:10.1021/jacs.0c11976, **@2021** Линк **1.000**

1218. Uematsu, Y. (2021). Electrification of water interface. Journal of Physics Condensed Matter, 33(42) doi:10.1088/1361-648X/ac15d5, **@2021** Линк **1.000**

1219. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

426. **Gochev, G.**, Scoppola, E., Campbell, R, Noskov, B., Miller, R, Schneck, E.. β-Lactoglobulin Adsorption Layers at the Water/Air Surface: 3. Neutron Reflectometry Study on the Effect of pH. Journal of Physical Chemistry B, 123, 50, ACS, 2019, 10877-10889. SJR (Scopus):1.109, JCR-IF (Web of Science):2.923

Цитира се в:

1220. Bergfreund, J., Diener, M., Geue, T., Nussbaum, N., Kummer, N., Bertsch, P., Gustav Nyström, G., Fischer, P. (2021). Globular protein assembly and network formation at fluid interfaces: Effect of oil. Soft Matter, 17(6), 1692-1700. doi:10.1039/d0sm01870h, **@2021** Линк **1.000**

1221. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

427. Milenov T., Nikolov A., **Avdeev G.**, Avramova I., Russev S., Karashanova D., Konstadinov I., Georgieva B., Mladenoff J., Balchev I., Stankova N., Kolev S., Valcheva E.. Synthesis of graphene-like phases in a water colloid by laser ablation of graphite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 247, 2019, ISSN:09215107, DOI:10.1016/j.mseb.2019.114379, SJR (Scopus):0.87, JCR-IF (Web of Science):1.756

Цитира се в:

1222. Javvaji, B., Vasireddi, R., Zhuang, X., Mahapatra, D.R., Rabczuk, T., Laser-assisted graphene layer exfoliation from graphite slab, (2021) Molecular Simulation, 47 (18), pp. 1540-1548., **@2021** Линк **1.000**

1223. Yogesh, G.K., Shukla, S., Sastikumar, D., Koinkar, P., Progress in pulsed laser ablation in liquid (PLAL) technique for the synthesis of carbon nanomaterials: a review, (2021) Applied Physics A: Materials Science and Processing, 127 (11), art. no. 810, ., **@2021** Линк **1.000**

1224. Zhang, D., Li, Z., Sugioka, K., Laser ablation in liquids for nanomaterial synthesis: Diversities of targets and liquids, (2021) JPhys Photonics, 3 (4), art. no. 042002., **@2021** Линк **1.000**

428. Nikov R. G., A.O. Dikovska, **G. V. Avdeev**, S. Amoruso, N.N. Nedyalkov. PLD fabrication of oriented nanowires in magnetic field. Applied Surface Science, 417, Elsevier BV, 2019, ISSN:0169-4332, DOI:10.1016/j.apsusc.2018.12.030, 368-374. SJR (Scopus):1.12, JCR-IF (Web of Science):5.155

Цитира се в:

1225. Shapouri, S., Rajabi Kalvani, P., Jahangiri, A.R., Elahi, S.M., Physical characterization of copper oxide nanowire fabricated via magnetic-field assisted thermal oxidation, (2021) Journal of Magnetism and Magnetic Materials, 524, art. no. 167633, ., **@2021** Линк **1.000**

429. Atanasova G., A. Og. Dikovska, T. Dilova, B. Georgieva, **G.V. Avdeev**, P. Stefanov, Nedyalkov, N.N. Metal-oxide nanostructures produced by PLD in open air for gas sensor applications. Applied Surface Science, 470, Elsevier, 2019, ISSN:0169-4332, DOI:10.1016/j.apsusc.2018.11.178, 861-869. SJR (Scopus):1.115, JCR-IF (Web of Science):5.155

Цитира се в:

1226. Alves Junior, R., Alves, H.P.A., Cartaxo, J.M., Rodrigues, A.M., Neves, G.A., Menezes, R.R., Use of nanostructured and modified TiO2 as a gas sensing agent (2021) Ceramica, 67 (383), pp. 316-326., **@2021** Линк **1.000**

1227. Deng, Z., Jia, Q., Feng, B., Liu, L., Research progress on fabrication and applications of high-performance films by pulsed laser deposition [脉冲激光沉积高性能薄膜制备及其应用研究进展], (2021) Zhongguo Jiguang/Chinese Journal of Lasers, 48 (8), art. no. 0802010., **@2021** Линк **1.000**

1228. Ikram, M., Rashid, M., Haider, A., Naz, S., Haider, J., Raza, A., Ansar, M.T., Uddin, M.K., Ali, N.M., Ahmed, S.S., Imran, M., Dilpazir, S., Khan, Q., Maqbool, M., A review of photocatalytic characterization, and environmental cleaning, of metal oxide nanostructured materials (2021) Sustainable Materials and Technologies, 30, art. no. e00343., **@2021** Линк **1.000**

1229. Mehmood, S., Zhao, X., Fahad Bhopal, M., Ullah Khan, F., Yang, Y., Wang, G., Pan, X., MoO2-Ni-graphene ternary nanocomposite for a high-performance room-temperature ethanol gas sensor, (2021) Applied Surface Science, 554, art. no. 149595, . Cited 3 times., **@2021** Линк **1.000**

1230. Socol, M., Preda, N., Socol, G., Organic thin films deposited by matrix-assisted pulsed laser evaporation (MAPLE) for photovoltaic cell applications: A **1.000**

review, (2021) Coatings, 11 (11), art. no. 1368., **@2021** Линк

430. Boiadjieva-Scherzer, Tz., **Avdeev, G.**, **Vassilev, Ts.**, **Chakarova, V.**, Kronberger, H., **Monev, M.**. Influence of annealing temperature on ζ-CrZn13 formation in electrodeposited Zn-Cr coatings. Surface Engineering, 35, 12, Teylor&Francis, 2019, ISSN:02670844, DOI:10.1080/02670844.2019.1598023, 1055-1060. SJR (Scopus):0.591, JCR-IF (Web of Science):2.229

Цитира се в:

1231. Tahraoui, L., Diafi, M., Aidi, A., Benhaoua, B., "Chromium-rich zn-cr alloys: electrochemical deposition, structure and corrosion resistance", Digest Journal of Nanomaterials & Biostructures (DJNB), 16 (1), 191-196, 2021, **@2021** **1.000**

1232. Tahraoui, L., Diafi, M., Fadel, A., "The influence of Chromium concentration on the corrosion resistance of the electrodeposited Zn–Co–Cr alloys", Digest Journal of Nanomaterials and Biostructures, 16(2) 555 -561 (2021)., **@2021** **1.000**

1233. Toghan, A., et al. "Effect of Deposition Potential on the Mechanism and Corrosion Behavior of Zn-Fe-Co Thin Coatings Electrochemically Deposited on a Steel Substrate", Int. J. Electrochem. Sci, 16, 151044, 2021., **@2021** Линк **1.000**

1234. Zhuang, R., Tan, Y., Liu, Y., Ouyang, Y., Du, Y. “Interdiffusion behaviors and mechanical properties of Zn–Cr system”, Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 74, 102308, 2021., **@2021** Линк **1.000**

431. **Mileva E.**, **Arabadzhieva D.**, **Gyurova A.**, **Alexandrova L.**, Chinarev A., Tsygankova S., Tuzikov A., **Khristov Khr.**, **Ranguelov B.**. Smart complex fluids based on two-antennary oligoglycines. ChemSusChem, 12, 3, Wiley-VCH, 2019, ISSN:1864-564X, DOI:https://doi.org/10.1002/cssc.201802308, 672-683. SJR (Scopus):2.367, JCR-IF (Web of Science):7.804

Цитира се в:

1235. Казанцев О.А., Ширшин К.В., Барута Д.С., Большакова Е.А., Савинова М.В., Арифуллин И.Р. "Влияние ассоциации реагентов на поликонденсацию эпихлоргидрина и 1, 3-бис(диметиламино)пропанола-2 в воде" КЛЕИ. ГЕРМЕТИКИ. ТЕХНОЛОГИИ, Номер: 2, Год: 2021 Страницы: 18-22, **@2021** Линк **1.000**

432. **Nakova, A.**, Anghel, E.M., Lete, C, Lupu, S., Boijadjieva-Scherzer, Tz., **Tsakova, V.**. Graphite electrode-assisted electroless deposition of palladium in the absence and presence of poly(3,4-ethylenedioxythiophene) coatings. Synthetic Metals, 247, Elsevier, 2019, ISSN:0379-6779, DOI:https://doi.org/10.1016/j.synthmet.2018.11.006, 18-25. SJR (Scopus):0.67, JCR-IF (Web of Science):2.87

Цитира се в:

1236. Chabak, Yu. G. , Fedun, V.I., Efremenko, V.G., Shimizu, K., Petryshynets, I., Zurnadzhy, V.I. , Dzherenova, A.V., " Effect of cathode material on microstructure status of the coating fabricated using an electro-thermal axial plasma accelerator", Romanian J. Phys, 66 , 501, 2021, **@2021** **1.000**

433. **Karabozhikova, V.**, **Tsakova, V.**. Electroanalytical determination of caffeic acid - Factors controlling the oxidation reaction in the case of PEDOT-modified electrodes. Electrochimica Acta, 293, Elsevier, 2019, ISSN:0013-4686, DOI:10.1016/j.electata.2018.111.067, 439-446. SJR (Scopus):1.365, JCR-IF (Web of Science):5.383

Цитира се в:

1237. Deng, L., Xu, Q. , Rao, L. , Yue, R., Xu, J., Duan, X., " Preparation of hierarchical Pt/Pd-PEDOT/NGE nanocomposites for high caffeic acid", J. Electronic Materials, 50 , 543–553, 2021, **@2021** **1.000**

1238. García-Guzmán, J. J., López-Iglesias, D. , Cubillana-Aguilera, L., Bellido-Milla, D., Palacios-Santander, J. M., Marin, M., Grigorescu, S. D., Lete, C., Lupu, St, "Silver nanostructures - poly(3, 4-ethylenedioxythiophene) sensing material prepared by sinusoidal voltage procedure for detection of antioxidants", Electrochim. Acta 393 , 139082 2021, **@2021** **1.000**

1239. Kothandan, V. A., Mani, S., Chen, S.-M., Shih-Hsun, C. , "Ultrasonic-assisted synthesis of nickel tungstate nanoparticles on poly (3, 4-ethylene dioxythiophene):poly (4-styrene sulfonate) for the effective electrochemical detection of caffeic acid", Materials Today Communications, 26, 101833, 2021, **@2021** **1.000**

1240. Rudnicki, K., Sobczak, K., Kaliszak, M., Sipa, K., Powalka, E., Skrzypek, S., Poltorak, L., Herzog, G., "Voltammetric study of cefotaxime at the macroscopic and miniaturized interface between two immiscible electrolyte solutions", Microchim Acta 188, 413, 2021, **@2021** Линк **1.000**

1241. Zhou, M., Xu, Y., Zhong, R., Wang, Y., " Sensitive Electrochemical Detection of Caffeic Acid usingaCarboxyl-Functionalized Reduced Graphene Oxide-Modified Glassy Carbon Electrode (ERGO-COOH/GCE)", Int. J. Electrochem. Sci., 16, 210761, 2021, **@2021** **1.000**

434. **Milchev, A**, Binder, K.. Linear Dimensions of Adsorbed Semiflexible Polymers: What Can Be Learned about Their Persistence Length?. Physical Review Letters, 123, 12, American Physical Society, 2019, ISSN:00319007, DOI:10.1103/PhysRevLett.123.128003, 1. SJR (Scopus):3.571, JCR-IF (Web of Science):9.227

Цитира се в:

1242. Chauhan, G., Simpson, M.L., Abel, S.M. "Adsorption of semiflexible polymers in crowded environments". Journal of Chemical Physics, 155 (3), art. no. 034904, 2021, **@2021** Линк **1.000**

1243. Majumder, S., Marenz, M., Paul S. , Janke W. "Knots are Generic Stable Phases in Semiflexible Polymers". Macromolecules, 54 (12), pp. 5321-5334, 2021, **@2021** Линк **1.000**

1244. Morozova, T.I., García, N.A., Barrat, J.-L., Luengo, G.S., Léonforte, F. "Adsorption and Desorption of Polymers on Bioinspired Chemically Structured Substrates". ACS Applied Materials and Interfaces, 13 (25), pp. 30086-30097, 2021, **@2021** Линк **1.000**

1245. Prokhorov, V.V., Barinov, N.A., Prusakov, K.A., Dubrovin, E.V., Frank-Kamenetskii, M.D., Klinov, D.V."Anomalous Laterally Stressed Kinetically Trapped **1.000**

DNA Surface Conformations". Nano-Micro Letters, 13 (1), art. no. 130, 2021, **@2021** Линк

1246. Taylor, M.P., Basnet, S., Luettmer-Strathmann, J. "Partition-function-zero analysis of polymer adsorption for a continuum chain model". Physical Review E, 104 (3), art. no. 034502, 2021, **@2021** Линк **1.000**

435. Stambolova I., Dimitrov O., Vassilev S., Yordanov St., Blaskov V., **Boshkov N.**, Shipochka M.. Preparation of newly developed CeO2/ZrO2 multilayers: Effect of the treatment temperature on the structure and corrosion performance of stainless steel. Journal of Alloys and Compounds, 806, Elsevier, 2019, 1357-1367. SJR (Scopus):1.065, JCR-IF (Web of Science):4.175

Цитира се в:

1247. Beer, S., Samélor, D., Aal, A., Etzkorn, J., Rogalla, D., Turgambaeva, A., Esvan, J., Kostka, A., Vahlas, C., Devi, A., (2021). "Direct liquid injection chemical vapor deposition of ZrO2 films from a heteroleptic Zr precursor: Interplay between film characteristics and corrosion protection of stainless steel", Journal of Materials Research and Technology, 13, 1599-1614, **@2021** Линк **1.000**

1248. Jin X., , Ma B., Deng J., Luo J., Yuan W., "High temperature failure modes of In2O3 thin films and improved thermal stability using Al2O3/ZrO2 protective layers", Ceramics International, 47, 20, 28411-28418, **@2021** Линк **1.000**

1249. Wang, C., Zhang, Y., Tan, H., Du, X., "Non-calcined ZrO2 sol-coated hollow glass fibre membrane: Preparation, microstructure, and dye separation", Ceramics International, 47, 9, 12906-12915, **@2021** Линк **1.000**

1250. Wang, Z., Ding, X., Guo, X., Dou, B., Zhou, J., Wang, B., Wang, M., (2021). "Investigation into the Anticoking Performances of Sol–Gel-Derived SiO2 and SiO2–CeO2 Coatings during Thermal Pyrolysis of Light Naphtha", Energy & Fuels, 35, 3, 2562-2578, **@2021** Линк **1.000**

436. **Boshkova N.**, Tabakova N., Atanasova G., **Boshkov N.**. Electrochemical obtaining and corrosion behavior of Zinc-Polyaniline (Zinc-PANI)hybrid coatings. Coatings, 9, 8, MDPI, 2019, 487. JCR-IF (Web of Science):2.33

Цитира се в:

1251. Fangjian G., Mu J., Bi Z., Wang S., Li Z., "Recent advances of polyaniline composites in anticorrosive coatings: A review", Progress in Organic Coatings, 151, 2021, 106071, **@2021** Линк **1.000**

1252. Gupta D.K., Neupane S., Singh S., Karki N., Yadav A.P., "Dataset for the Selection of Electrolytes for Electropolymerization of Aniline", Data in Brief, 2021, 106875, **@2021** Линк **1.000**

1253. Wang, H., Zhu, S., Yao, H., Di, Y., Shu, M., Li, J., Zhang, B., Cao, G., Guan, S., (2021). "Positive effect of the addition of polyaniline on the anticorrosive property of polyethersulfone two-layer composite coating", Journal of Applied Polymer Science, 50758., **@2021** Линк **1.000**

437. Milanova M., Donchev V., Kostov L., Alonso-Alvarez D., Terziyska P., **Avdeev G.**, Valcheva E., Kirilov K., Georgiev S.. Study of GaAsSb:N bulk layers grown by liquid phase epitaxy for solar cells applications. Materials Research Express, 6, 7, 2019, ISSN:20531591, DOI:10.1088/2053-1591/ab179f, SJR (Scopus):0.35, JCR-IF (Web of Science):1.449

Цитира се в:

1254. David, C., Koduvelikulathu, L.J., Kopecek, R., Comparative simulations of conductive nitrides as alternative plasmonic nanostructures for solar cells, (2021) Energies, 14 (14), art. no. 4236, ., **@2021** Линк **1.000**

438. Benedetto Bozinni, Danjela Kuscer, Matteo Amati, Luca Greogatti, Patrick Zeller, **Tsvetina Dobrovolska**, **Ivan Krastev**. Spatially Resolved XPS Characterization of Electrochemical Surfaces. Surfaces, 2, MDPI, 2019, ISSN:2571-9637, DOI:10.3390/surfaces2020022, 295-314

Цитира се в:

1255. Marina Duplančić, Vjeran Gomzi, AlbinPintar, Stanislav Kurajica, VesnaTomašić, Experimental and theoretical (ReaxFF) study of manganese-based catalysts for low-temperature toluene oxidation, Ceramics International, Available online 30 September 2020, In Press, Journal Pre-proof, **@2021** Линк **1.000**

439. Vega, D.A., **Milchev, A.**, Schmid, F., Febbo, M.. Anomalous Slowdown of Polymer Detachment Dynamics on Carbon Nanotubes. Physical Review Letters, 122, 21, 2019, 218003. JCR-IF (Web of Science):9.227

Цитира се в:

1256. Geng, K., Gu, F., Wang, H., Qi, S. "Conformational transitions of adsorption-responsive single diblock copolymers in homopolymer brushes". Soft Matter 17(9), pp. 2410-2420, 2021, **@2021** Линк **1.000**

440. Unsalan, O, Jenniskens, P, **Ranguelov, B**, **Tatchev, D.**, **Karamanov, A**, Karashanova, D. The Saricicek howardite fall in Turkey: Source crater of HED meteorites on Vesta and impact risk of Vestoids. Meteoritics & Planetary Science, 54, 5, The Meteoritical Society,, 2019, ISSN:0026-1114, DOI:10.1111/maps.13258, 953-1008. SJR (Scopus):1.18, JCR-IF (Web of Science):2.318

Цитира се в:

1257. Borovička, J., Bettonvil, F., Baumgarten, G., Strunk, J., Hankey, M., Spurný, P., Heinlein, D. "Trajectory and orbit of the unique carbonaceous meteorite Flensburg", Meteoritics and Planetary Science, Article in Press, 2021, **@2021** Линк **1.000**

1258. Gardiol, D., Barghini, D., Buzzoni, A. "Cavezzo, the first Italian meteorite recovered by the PRISMA fireball network. Orbit, trajectory, and strewn-field", Monthly Notices of the Royal Astronomical Society, 501, 1, 1215–1227, 2021, **@2021** Линк **1.000**

1259. Haba, M.K., Wotzlaw, J.-F. "ID-TIMS zircon U–Pb geochronology of the Camel Donga eucrite". Chemical Geology 567, 120073, 2021, **@2021** Линк **1.000**

1260. Schenk, P.M., Neesemann, A., Marchi, S., (...), Raymond, C.A., Russell, C.T. "A young age of formation of Rheasilvia basin on Vesta from floor deformation patterns and crater counts", Meteoritics and Planetary Science, Article in Press, **@2021** Линк **1.000**

441. Radnik, J, Dang, T.T.H., Gatla, S, Raghuwanshi, V.S., **Tatchev, D**, Hoell, A. Identifying the location of Cu ions in nanostructured SAPO-5 molecular sieves and its impact on the redox properties. RSC Advances, 9, The Royal Society of Chemistry, 2019, ISSN:2046-2069, DOI:10.1039/c8ra10417d, 6429-6437. SJR (Scopus):0.81, JCR-IF (Web of Science):3.049

Цитира се в:

1261. Sun, YG. "Anomalous small-angle X-ray scattering for materials chemistry", TRENDS IN CHEMISTRY 3 (12) , pp.1045-1060, **@2021** Линк **1.000**

442. Nekrasov, AA, Yakobson, OD, Gribkova, OL, Ivanov, VF, **Tsakova, V**. Angular Dependence of Raman Spectra for Electroactive Polymer Films on a Platinum Electrode. Russian Journal of Electrochemistry, 55, 3, Pleiades Publishing, Ltd., 2019, ISSN:1023-1935, 175-183. SJR (Scopus):0.252, JCR-IF (Web of Science):1.043

Цитира се в:

1262. Mažeikienė, R., Niaura, G., Malinauskas, A., " Poly (N-methylaniline) vs. polyaniline: An extended pH range of polaron stability as revealed by Raman spectroelectrochemistry", Spectrochimica Acta A, 262, 120140, 2021, **@2021** **1.000**

443. Voycheva, CT (Voycheva, Ch. Tc, Tzankov, B (Tzankov, B.), Tzankova, DG (Tzankova, D. G., **Avramova, KI (Avramova, K. I.)**, Yoncheva, KP (Yoncheva, K. P.. Formulation of Tablets Containing Glimepiride-loaded Mesoporous Silica Particles. INDIAN JOURNAL OF PHARMACEUTICAL SCIENCES, 81, 3, 2019, ISSN:0250-474X, DOI:DOI: 10.36468/pharmaceutical-sciences.533, 483-488. SJR (Scopus):0.256, JCR-IF (Web of Science):0.634

Цитира се в:

1263. Galabova, BB, Mesoporous silica nanoparticles: Synthesis, functionalization, drug loading and release - A review, TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH, 20 (5) , pp.1091-1100 , 2021, **@2021** **1.000**

444. Tzankov, B (Tzankov, Borislav), Tzankova, V (Tzankova, Virgini, Aluani, D (Aluani, Denitsa), Yordanov, Y (Yordanov, Yordan), Spassova, I (Spassova, Ivanka), Kovacheva, D (Kovacheva, Danie, **Avramova, K (Avramova, Kati)**, Valoti, M (Valoti, Massimo, Yoncheva, K (Yoncheva, Krassim. Development of MCM-41 mesoporous silica nanoparticles as a platform for pramipexole delivery. JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, 51, ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS, 2019, ISSN:ISSN: 1773-2247, DOI:10.1016/j.jddst.2019.02.008, 26-35. SJR (Scopus):0.58, JCR-IF (Web of Science):2.606

Цитира се в:

1264. Arora, S; Gosu, V; (...); Hameed, BH, Lithium loaded coal fly ash as sustainable and effective catalyst for the synthesis of glycerol carbonate from glycerol, JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING , 9 (5) , 2021, **@2021** **1.000**

1265. Shankar, J; Geetha, KM and Wilson, B, Potential applications of nanomedicine for treating Parkinson's disease, JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY , 66 , 2021, **@2021** **1.000**

1266. Shariatinia, Z and Pourzadi, N, Designing novel anticancer drug release vehicles based on mesoporous functionalized MCM-41 nanoparticles, JOURNAL OF MOLECULAR STRUCTURE , 1242 , 2021, **@2021** **1.000**

1267. Silva, S; Almeida, AJ and Vale, N, Importance of Nanoparticles for the Delivery of Antiparkinsonian Drugs, PHARMACEUTICS, 13 (4) , 2021, **@2021** **1.000**

1268. Stephen, S; Gorain, B; (...); Chatterjee, B, DRUG DELIVERY AND TRANSLATIONAL RESEARCH, Feb 2021 (Early Access), **@2021** Линк **1.000**

1269. Trzeciak, K; Chotera-Ouda, A; (...); Potrzebowski, MJ, Mesoporous Silica Particles as Drug Delivery Systems-The State of the Art in Loading Methods and the Recent Progress in Analytical Techniques for Monitoring These Processes, PHARMACEUTICS , 13 (7) , 2021, **@2021** **1.000**

445. Garcia Rey N., Weissenborn E., Schulze-Zachau F., **Gochev G.**, Braunschweig B.. Quantifying Double-Layer Potentials at Liquid-Gas Interfaces from Vibrational Sum-Frequency Generation. Journal of Physical Chemistry C, 123, 2, 2019, ISSN:1932-7447, DOI:https://doi.org/10.1021/acs.jpcc.8b10097, 1279-1286. SJR (Scopus):1.65, JCR-IF (Web of Science):4.309

Цитира се в:

1270. Gahtori, P., Varanasi, S. R., & Pandey, R. (2021). Spectral response of interfacial water at different lipid monolayer interfaces upon interaction with charged gold nanoparticles. Journal of Physical Chemistry C, 125(38), 21234-21245. doi:10.1021/acs.jpcc.1c06556, **@2021** Линк **1.000**

1271. Gera, R., Bakker, H. J., Franklin-Mergarejo, R., Morzan, U. N., Falciani, G., Bergamasco, L., Bergamasco, L., Versluis, J., Sen, I., Dante, S., Eliodoro Chiavazzo, E., Hassanali, A. A. (2021). Emergence of electric fields at the water-C12E6 surfactant interface. Journal of the American Chemical Society, 143(37), 15103-15112. doi:10.1021/jacs.1c05112, **@2021** Линк **1.000**

1272. Krem, S., Lee, M., Sam, S., Sung, W., & Kim, D. (2021). Structure of electric double layer under cationic langmuir monolayer: Charge condensation effect. Journal of Physical Chemistry Letters, 12(13), 3417-3423. doi:10.1021/acs.jpclett.1c00401, **@2021** Линк **1.000**

1273. Ma, E., Kim, J., Chang, H., Ohno, P. E., Jodts, R. J., Miller, T. F., & Geiger, F. M. (2021). Stern and diffuse layer interactions during ionic strength cycling. Journal of Physical Chemistry C, 125(32), 18002-18014. doi:10.1021/acs.jpcc.1c04836, **@2021** Линк **1.000**

446. **Andreeva, R.**, **Stoyanova, E.**, Tsanev, A., **Stoychev, D.**. XPS characterisation of the influence of phosphate post-treatment of chemically deposited ceria protective layers on aluminum. Comptes rendus de l'Académie bulgare des Sciences, 72, 10, Изд. Марин Дринов - БАН, 2019, ISSN:2367–5535, DOI:10.7546/CRABS.2019.10.05, 1336-1342. SJR (Scopus):0.205, JCR-IF (Web of Science):0.321

Цитира се в:

1274. Lilov, E., Lilova, V., Girginov, C., (...), Velinova, V., Ilieva, D., Kinetics of galvanostatic anodic polarization of Zn in NaOH solutions and characterization of the resulting layers, Materials Chemistry and Physics 263, 124298, 2021 https://doi.org/10.1016/j.matchemphys.2021.124298, **@2021** Линк **1.000**

447. **Nina Dimitrova**, Marwa Dhifallah, Tzonka Mineva, Tzvetanka Boiadjieva- Scherzer, Hazar Guesmi, **Jenia Georgieva**. High performance of PtCu@TiO2 nanocatalysts toward methanol oxidation reaction: from synthesis to molecular picture insight. RSC Advances, 9, 2019, DOI:10.1039/c8ra08782b, 2073-2080. SJR (Scopus):0.81, JCR-IF (Web of Science):3.049

Цитира се в:

1275. Kaur, A., Kaur, G., Singh, P.P., Kaushal, S. "Supported bimetallic nanoparticles as anode catalysts for direct methanol fuel cells: A review". International Journal of Hydrogen Energy 46(29), 15820-15849, 2021, **@2021** Линк **1.000**

1276. Peera, S.G., Liu, C., Shim, J., Sahu, A.K., Lee, T.G., Selvaraj, M., Koutavarapu, R. "MXene (Ti3C2Tx) supported electrocatalysts for methanol and ethanol electrooxidation: A review". Ceramics International. 47(20), 28106-28121, 2021, **@2021** Линк **1.000**

1277. Ponticorvo, E., Iuliano, M., Funicello, N., De Pasquale, S., Sarno, M. "Magnetic resonance imaging during the templated synthesis of mesoporous TiO2 supporting Pt nanoparticles for MOR". Inorganic Chemistry Communications. 131, 108790, 2021, **@2021** Линк **1.000**

1278. Torres, A.E., Rodríguez-Pineda, J., Zanella, R. "Relevance of Dispersion and the Electronic Spin in the DFT + U Approach for the Description of Pristine and Defective TiO2Anatase". ACS Omega, 6, 36, 23170–23180, 2021, **@2021** Линк **1.000**

1279. Wang, J., Lei, M., Wang, Z., Liu, Y., Zhuang, W., Zhu, W. "Methanol oxidation over rutile Au1@TiO2 catalyst: Importance of facets and oxygen vacancy". Applied Surface Science 542, 148541, 2021, **@2021** Линк **1.000**

1280. Yu, S., Liang, L., Cui, Z. "Recent advances of nanostructured catalysts for methanol oxidation in acidic solution | [酸性环境中甲醇电氧化催化剂的研究进展]". Huagong Jinzhan/Chemical Industry and Engineering Progress, 40(9), 4962-4974, 2021, **@2021** Линк **1.000**

1281. Zhu, X., Hu, Z., Huang, M., Zhao, Y., Qu, J., Hu, S. "Au nanowires with high aspect ratio and atomic shell of Pt-Ru alloy for enhanced methanol oxidation reaction". Chinese Chemical Letters. 32(6), 2033-2037, 2021, **@2021** Линк **1.000**

448. **Karabozhikova, V**, **Tsakova, V**, Lete, C, Marin, M, Lupu, S. Poly(3,4-ethylenedioxythiophene)-modified electrodes for tryptophan voltammetric sensing. Journal of Electroanalytical Chemistry, 848, Elsevier, 2019, DOI:10.1016/j.jelechem.2019.113309, 113309. SJR (Scopus):0.727, JCR-IF (Web of Science):3.218

Цитира се в:

1282. Vilian, A. T. E., Hwang, S. K., Ranjith, K. S., lee, M. J., Park, B., Huh, Y. S., Han, Y.-K., "Simples fabrication of hierarchical NiCoSe4 nanorods grown on carbon nanofibers as excellent electrocatalysts for tryptophan oxidation", Carbon 178, 2021, **@2021** Линк **1.000**

1283. Wong, A., Santos, A.M., da Fonseca, A., Fatibello-Filho, R., Del Pilar Taboada, O., Sotomayor, M., "Simultaneous determination of direct yellow 50, tryptophan, carbendazim, and caffeine in environmental and biological fluid samples using graphite pencil electrode modified with palladium nanoparticles", Talanta 222 , 121539, 2021, **@2021** **1.000**

449. Andreola F., Barbieri L., Soares B. Q., **Karamanov A.**, Schabbach L. M.,, Bernardin A. M., Pich C. T.. Toxicological analysis of ceramic building materials–Tiles and glasses–Obtained from post-treated bottom ashes. Waste Management, 98, Elsevier, 2019, 50-57. SJR (Scopus):1.52, JCR-IF (Web of Science):5.431

Цитира се в:

1284. Cheng-Yong, H., Shee-Ween, O., Yun-Ming, L., Abdullah, M.M.A.B. and Wan-En, O., Development of Ash-Based and Slag-Based Pressed Geopolymer. Lecture Notes in Civil Engineering 129, pp. 51-72, **@2021** **1.000**

1285. de Souza-Dal Bó, G. C., Dal Bó, M., & Bernardin, A. M. Reuse of laminated glass waste in the manufacture of ceramic frits and glazes. Materials Chemistry and Physics, 257, 123847., **@2021** Линк **1.000**

1286. Guo, J., Liu, X., Yu, J., Xu, C., Wu, Y. and Senthil, R.A., 2021. An overview of the comprehensive utilization of silicon-based solid waste related to PV industry. Resources, Conservation and Recycling, 169, , **@2021** **1.000**

1287. Lin, D.F., Lin, K.L., Shieh, S.I. and Chen, C.W., 2021. Study of the operative conditions and the optimum amount of municipal incinerator bottom ash for the obtainment of ceramic floor tiles. Environmental Science and Pollution Research, pp.1-14., **@2021** **1.000**

1288. Shee-Ween, O., Cheng-Yong, H., Yun-Ming, L., Abdullah, M.M.A.B., Ngee, H.L., Chan, L.W.L., Wan-En, O., Jaya, N.A. and Yong-Sing, N., 2021. Cold-pressed fly ash geopolymers: effect of formulation on mechanical and morphological characteristics. Journal of Materials Research and Technology, 15, pp.3028-3046., **@2021** **1.000**

1289. Yong, H.C., Ween, O.S., Ming, L.Y., Abdullah, M.M.A.B. and En, O.W., 2021. Development of Ash-Based and Slag-Based Pressed Geopolymer. Sustainable Waste Utilization in Bricks, Concrete, and Cementitious Materials: Characteristics, Properties, Performance, and Applications, 129, p.51., **@2021** **1.000**

1290. Yuan, Q., Mohajerani, A., Kurmus, H. and Smith, J.V., 2021. Possible Recycling Options Of Waste Materials In Manufacturing Ceramic Tiles. GEOMATE Journal, 20(78), pp.73-80., **@2021** **1.000**

450. Kozhukharov S., Girginov Ch., Tsanev A., **Petrova M.**. Elucidation of the Anodization and Silver Incorporation Impact on the Surface Properties of AA1050 Aluminum Alloy. Journal of the Electrochemical Society, 166, 10, Electrochemical Society, Inc., 2019, ISSN:00134651, C231-C242. SJR (Scopus):1.14, JCR-IF (Web of Science):3.12

Цитира се в:

1291. Fedel, M., Franch, J., Rossi, S., „Effect of thickness and sealing treatments on the corrosion protection properties of anodic oxide coatings on AA5005“, Surface and Coatings Technology 408, 126761 (2021), **@2021** **1.000**

1292. Girginov, C., Kozhukharov, S., Tsanev, A., Dishliev, A., „Characterization of anodized Al 1050 with electrochemically deposited Cu, Ni and Cu/Ni and **1.000**

their behavior in a model corrosive medium“, Journal of Electrochemical Science and Technology 12(2), pp. 188-203 (2021), **@2021**

2020

451. **Alexander Karamanov**, Smiljanić, S.,, **Emilia Karamanova**, E., Matijašević,, Nikolić J, Savić, V., Grujić, S.. Sintering, crystallization and foaming of La2O3• SrO• 5B2O3 glass powders: effect of the holding time. Journal of Non-Crystalline Solids, 544, Elsevier, 2020, 120168. SJR (Scopus):0.712, JCR-IF (Web of Science):2.929

Цитира се в:

1293. Liu, X., Zhou, Z., Li, W., Yang, Y. and Mei, B., 2021. The effects of the solution reactant concentration and temperature on the preparation of Pr3+: BaF2 transparent ceramics. Journal of the American Ceramic Society. 104(8), pp. 3862-3872, **@2021** **1.000**

1294. Silva, L.D., Puosso, F.C., Soares, V.O., Peitl Filho, O., do RF Sabino, S., Serbena, F.C., Crovace, M.C. and Zanotto, E.D., 2021. Two-step sinter-crystallization of K2O–CaO–P2O5–SiO2 (45S5-K) bioactive glass. Ceramics International, 47(13), pp.18720-18731., **@2021** **1.000**

452. Zgureva D, Stoyanova V, Shoumkova A, Boycheva S, **Avdeev G**. Quasi natural approach for crystallization of zeolites from different fly ashes and their application as adsorbent media for malachite green removal from polluted waters. Crystals, 10, 2020, DOI:https://doi.org/10.3390/cryst10111064, 1-16. SJR (Scopus):0.59, JCR-IF (Web of Science):2.404

Цитира се в:

1295. Castro, L.E.N., Colpini, L.M.S., All-around characterization of brewers' spent grain, (2021) European Food Research and Technology, 247 (12), pp. 3013-3021., **@2021** Линк **1.000**

1296. Sočo, E., Papciak, D., Michel, M.M., Pająk, D., Domoń, A., Kupiec, B., Characterization of the physical, chemical, and adsorption properties of coal-fly-ash–hydroxyapatite composites, (2021) Minerals, 11 (7), art. no. 774, . Cited 1 time., **@2021** Линк **1.000**

453. Harizanova R, Slavov S, Vladislavova L, Costa C, **Avdeev G**, Bocker C, Rüssel C. Barium titanate containing glass-ceramics - The effect of phase composition and microstructure on dielectric properties. Ceram. Int., 46, 2020, DOI:https://doi.org/10.1016/j.ceramint.2020.06.247, 24585-24591. SJR (Scopus):0.89, JCR-IF (Web of Science):3.83

Цитира се в:

1297. Boccaccini, D., Cannio, M., Bernardo, E., Boccaccini, A.R., Glass and glass-ceramic matrix composites for advanced applications: Part I: Properties and manufacturing technologies, (2021) Encyclopedia of Materials: Technical Ceramics and Glasses, 2-3, pp. 277-287., **@2021** Линк **1.000**

1298. Tumarkin, A., Tyurnina, N., Mukhin, N., Tyurnina, Z., Sinelshchikova, O., Gagarin, A., Sapego, E., Kretser, Y., Glass-ceramic ferroelectric composite material BaTiO3/KFeSi for microwave applications, (2021) Composite Structures, art. no. 114992., **@2021** Линк **1.000**

454. **Boshkova N.**, **Kamburova K.**, Koprinarov N., Konstantinova M., **Boshkov N.**, **Radeva Ts.**. Obtaining and Corrosion Performance of Composite Zinc Coatings with Incorporated Carbon Spheres. Coatings, 10, 7, 2020, 665. SJR (Scopus):0.46, JCR-IF (Web of Science):2.436

Цитира се в:

1299. Branzoi F., Baran A., Petrescu S., "Evaluation of Corrosion Protection Performance of New Polymer Composite Coatings on Carbon Steel in Acid Medium by Electrodeposition Methods", Coatings, 11, 8, 903, **@2021** Линк **1.000**

1300. Maniam K.K., Paul S., "Corrosion Performance of Electrodeposited Zinc and Zinc-AlloyCoatings in Marine Environment", Corrosion and materials Degradation, 2, 163-189, **@2021** Линк **1.000**

1301. Owhal, A., Pingale, A.D., Khan, S., Belgamwar, S.U., Jha, P.N., Rathore, J.S., Electro-codeposited γ-Zn-Ni/Gr composite coatings: Effect of graphene concentrations in the electrolyte bath on tribo-mechanical, anti-corrosion and anti-bacterial properties, Transactions of the Institute of Metal Finishing, 99 (6), pp. 324-331 (2021), **@2021** Линк **1.000**

455. **Kamburova K.**, **Boshkova N.**, Tabakova N., **Boshkov N.**, **Radeva Ts.**. Application of polymeric modified polyaniline-silica particles for improved corrosion resistance of hybrid zinc coatings". Colloids and Surfaces A: Physicochemical and Engineering Aspects, 592, Elsevier, 2020, 124546. SJR (Scopus):0.78, JCR-IF (Web of Science):3.99

Цитира се в:

1302. Gao F., Mu J., Bi Z., Wang S., Li Z., "Recent advances of polyaniline composites in anticorrosive coatings: A review", Progress in Organic Coatings, 151, 2021, 106071, https://doi.org/10.1016/j.porgcoat.2020.106071., **@2021** Линк **1.000**

1303. Liu, M.G., Zhao, R., Study on preparation of amphiphilic silane and its modification on copper surface, Journal of Physics: Conference Series, 1765 (1), art. no. 012025 (2021), **@2021** Линк **1.000**

1304. Muresan, A.C., Buruiana, D.L., Carp, G.B., Berbece, S., Trus, C., Evaluation of corrosion resistance in 3.5% NaCl solution of hybrid coatings obtained from plastics materials, Materiale Plastice, 58 (1), 201-209 (2021), **@2021** Линк **1.000**

1305. Mureşan, A.C., Buruiană, D.L., Istrate, G.G., Pintilie, Ş.C., Effect of electrodeposition parameters on the morphology, topography and corrosion resistance of epoxy resin/zinc hybrid coatings, Materials, 14 (8), art. no. 199 (2021), **@2021** Линк **1.000**

1306. Owhal, A., Pingale, A.D., Khan, S. et al. Facile and Scalable Co-deposition of Anti-bacterial Zn-GNS Nanocomposite Coatings for Hospital Facilities: Tribo-Mechanical and Anti-corrosion Properties. JOM 73, 4270–4278 (2021), **@2021** Линк **1.000**

456. Harizanova R, Avramova I, Cherkezova-Zheleva Z, Paneva D, Kukeva R, Stoyanova R, Gugov I, Mihailova I, Tzankov D, Georgieva M, **Avdeev G**, Bocker C, Rüssel C. Spectroscopic investigations and magnetic measurements on iron-containing barium titanate glass-ceramics. Journal of Non-Crystalline Solids, 546, 2020, DOI:https://doi.org/10.1016/j.jnoncrysol.2020.120273, SJR (Scopus):0.71, JCR-IF (Web of Science):2.929

Цитира се в:

1307. Hou, Y., Zhang, G.-H., Chou, K.-C., Effect of atmosphere control on magnetic properties of CaO-Al2O3-SiO2-Fe3O4 glass ceramics, (2021) Journal of the European Ceramic Society, 41 (4), pp. 2663-2673. Cited 2 times., **@2021** Линк **1.000**

457. **Milusheva, V.**, Tzaneva, B., **Petrova, M.**, Stefanov, B.. Electroless copper-based layers deposition on anodized aluminium. Special Issue of Bulg. Chem. Commun., 52 (E), 2020, ISSN:0861-9808, 15-20. SJR (Scopus):0.14

Цитира се в:

1308. Chouki, T., Lazarević, D., Donkova, B.V., Emin, S., „Synthesis of efficient iron phosphide catalyst for electrocatalytic hydrogen generation“, Bulgarian Chemical Communications 53(1), (2021), pp. 72-77, **@2021** **1.000**

458. **Popova, Hristina**, Krzyżewski, Filip, Załuska-Kotur, Magdalena A., Tonchev, Vesselin. Quantifying the Effect of Step−Step Exclusion on Dynamically Unstable Vicinal Surfaces: Step Bunching without Macrostep Formation. Crystal Growth and Design, 20, 11, ACS Publications, 2020, ISSN:1528-7483, DOI:10.1021/acs.cgd.0c00927, 7246-7259. SJR (Scopus):1, JCR-IF (Web of Science):4.089

Цитира се в:

1309. Redkov, Alexey V. and Kukushkin, Sergey A. "Dynamic Interaction of Steps and Nanoislands during Growth of a Multicomponent Crystal". Cryst. Growth Des. 21, 4914–4926, 2021, **@2021** Линк **1.000**

459. Dimowa, L., Tzvetanova, Y., Petrov, O., **Piroeva, I**, Ublekov, F.. Powder xrd structural study of Ba2+ modified clinoptilolite at different stages of the ion exchange process conducted at two temperature regimes— room temperature and 90 °c. Minerals, Volume 10,, Issue 11, MDPI AG, 2020, ISSN:2075163X, DOI:10.3390/min10110938, 938-954. SJR (Scopus):0.49, JCR-IF (Web of Science):2.38

Цитира се в:

1310. Kerestedjian, Thomas N., "Editorial for the special issue “the rietveld method in geomaterials characterisation” Minerals 2021, 11(8), 814, 2021, **@2021** Линк **1.000**

460. **Karamanov, A.**, **Karamanova, E.**, **Jordanov, N.B.**, Esmat M. A. Hamzawy, Hussein Darwish. Sintered glass-ceramics and foams by metallurgical slag with addition of CaF2. Ceramics International, 46, 5, Elsevier, 2020, ISSN:0272-8842, DOI:https://doi.org/10.1016/j.ceramint.2019.11.132, 6507-6516. SJR (Scopus):0.89, JCR-IF (Web of Science):3.83

Цитира се в:

1311. Kurtulus, C., Kurtulus, R., Kavas, T., Foam glass derived from ferrochrome slag and waste container glass: Synthesis and extensive characterizations, Ceramics International 47, 17 (2021) 24997-25008. ISSN: 0272-8842, **@2021** **1.000**

1312. Li, Z., He, F., Zhang, W., & Xie, J. (2021). STRUCTURE AND PROPERTIES OF GLASS-CERAMICS FROM BLAST FURNACE SLAG WITH DIFFERENT Al2O3/SiO2 RATIO. Ceramics–Silikáty, 65(2), 187-197., **@2021** **1.000**

1313. Muniz, R.F., Soares, V.O., Montagnini, G.H., Medina, A.N., Baesso, M.L., Thermal, optical and structural properties of relatively depolymerized sodium calcium silicate glass and glass-ceramic containing CaF2, Ceramics International 47, 17 (2021) 24966-24972. ISSN: 0272-8842, **@2021** **1.000**

1314. Zhao, W., Huang, X., Yan, B., Hu, S., Guo, H., Chen, D., Recycling of blast furnace slag and fluorite tailings into diopside-based glass-ceramics with various nucleating agents' addition, Sustainability (Switzerland) 13, 20 (2021) 11144. ISSN 2071-1050, **@2021** **1.000**

1315. Zuhao, L.I., Feng, H.E., Zhang, W., Junlin, X.I.E., Structure and properties of glass-ceramics from blast furnace slag with different Al2O3/SiO2 ratio, Ceramics - Silikaty 65, 2 (2021) 187-197. ISSN: 08625468, **@2021** **1.000**

461. **Tsakova V**. Theory of electrochemical nucleation and growth—revisited?. J. Solid State Electrochem., 24, Springer, 2020, DOI:10.1007/s10008-020-04676-1, 2183-2185. SJR (Scopus):0.57, JCR-IF (Web of Science):2.646

Цитира се в:

1316. Isaev, V.A., Grishenkova, O.V., . Zaikov, Y.P, " Theoretical aspects of 2D electrochemical phase formation", J. Solid State Electrochem, 25 (7), 1-6, 2021, **@2021** **1.000**

462. Lihareva, N, Petrov, O., Dimowa, L, Tzvetanova, Y, **Piroeva, I**, Ublekov, F., Nikolov, A. Ion exchange of Cs+ and Sr2+ by natural clinoptilolite from bi-cationic solutions and XRD control of their structural positioning. Journal of Radioanalytical and Nuclear Chemistry, Volume 323,, Issue 3, Springer Netherlands, 2020, ISSN:0236-5731, 1093-1102. SJR (Scopus):0.36, JCR-IF (Web of Science):1.137

Цитира се в:

1317. Dran'kov, A., Shichalin, O., Papynov, E., Nomerovskii, A., Mayorov, V., Pechnikov, V., Ivanets, A., Buravlev, I., Yarusova, S., Zavjalov, A., Ognev, A., Balybina, V., Lembikov, A., Tananaev, I., Shapkin, N. "Hydrothermal synthesis, structure and sorption performance to cesium and strontium ions of nanostructured magnetic zeolite composites". Nuclear Engineering and Technology, 2021, **@2021** Линк **1.000**

1318. Jiménez-Reyesa M., P.T.Almazán-Sánchezb, M.Solache-Ríosa. "Radioactive waste treatments by using zeolites. A short review" Journal of Environmental Radioactivity, 233, 106610, 2021, **@2021** Линк **1.000**

1319. Kazemi, S., Pourmadadi, M., Yazdian, F., Ghadami, A. "The synthesis and characterization of targeted delivery curcumin using chitosan-magnetite-reduced graphene oxide as nano-carrier". International Journal of Biological Macromolecules, 186, 554-562, 2021, **@2021** Линк **1.000**

1320. Wang, B., Li, J., Zhou, X., Hao, W., Zhang, S., Lan, Ch., Wang, X., Wang, Z., Xu, J., Zhang, J., Li, X., Yan, W. "Facile activation of lithium slag for the hydrothermal synthesis of zeolite A with commercial quality and high removal efficiency for the isotope of radioactive 90Sr". , Inorg. Chem. Front., 2021, **@2021** Линк **1.000**

463. **Lyutov V**, Kabanova V, Gribkova O, Nekrasov A, **Tsakova V**. Electrochemically-Obtained Polysulfonic-Acids Doped Polyaniline Films— a Comparative Study by Electrochemical, Microgravimetric and XPS Methods. Polymers, 12, 5, MDPI, 2020, DOI:10.3390/polym12051050, 1050. SJR (Scopus):0.7, JCR-IF (Web of Science):3.426

Цитира се в:

1321. Firda, P.B.D., Malik, Y.T., Oh, J.K., Wujcik, E.K., Jeon, J.W. , " Enhanced Chemical and Electrochemical Stability of Polyaniline-Based Layer-by-Layer Films", Polymers 13(17) , 2992, 2021, **@2021** Линк **1.000**

464. Athanasios Papaderakis, Olga Spyridou, Nikolaos Karanasios, Aikaterini Touni, Angeliki Banti, **Nina Dimitrova**, **Stephan Armyanov**, **Eugenia Valova**, **Jenia Georgieva**, Sotiris Sotiropoulos. The Effect of Carbon Content on Methanol Oxidation and Photo-Oxidation at Pt-TiO2-C Electrodes. Catalysts, 10, 2, MDPI, 2020, ISSN:ISSN 2073-4344; CODEN: CATACJ, DOI:https://doi.org/10.3390/catal10020248, 248-262. SJR (Scopus):0.72, JCR-IF (Web of Science):3.52

Цитира се в:

1322. Bahnemann, D.W., Emeline, A.V., Rudakova, A.V., Bulanin, K.M., Mikhaylov, R.V., "Editorial: Special Issue on Photocatalytic Nanocomposite Materials (PNMs)", Catalysts, 11, 587 (2021), **@2021** Линк **1.000**

1323. Liu J., Fan C., Xie X., Jiang L., "Recent Progress on Photo-Promoted Alcohol Electro-Oxidation for Fuel Cells", Energy Technology, 9, Art. # 2000842 (2021), **@2021** Линк **1.000**

1324. Ponticorvo E., Iuliano M., Funicello N., De Pasquale S., Sarno M., „Magnetic resonance imaging during the templated synthesis of mesoporous TiO2 supporting Pt nanoparticles for MOR", Inorganic Chemistry Communications, 131, 108790 (2021), **@2021** Линк **1.000**

1325. Sesu D. C., Swami A., Kakade B., „Honeycomb like copper-cobalt nanostructures and their synergy with carbon supports for electrooxidation of carbinol" Int. J. Energy Research, 45, 6104-6114 (2021), **@2021** Линк **1.000**

465. Nicheva, D., Abrashev, B, **Piroeva, I**, Boev, V, Petkova, T, Petkov, P, Petrov, K. NiCo2O4/Ag as catalyst for bi-functional oxygen electrode. Bulgarian Chemical Communications, Volume 52 (E), Bulgarian Chemical Society, 2020, ISSN:0861-9808, 68-72. SJR (Scopus):0.142

Цитира се в:

1326. Abrashev, B., Miglena Slavova, Emilia Mladenova, Valentin Terziev, Blagoy Burdin, Gergana Raikova, Konstantin Petrov. "ELECTROCHEMICAL PROPERTIES OF AN OPTIMIZED GAS-DIFFUSION ELECTRODE (GDE) FOR RECHARGEABLE Zn-AIR BATTERIES". Journal of Chemical Technology and Metallurgy, 56, 6, 1261-1266, 2021, **@2021** Линк **1.000**

1327. Mladenova, E., M. Slavova, E. Mihaylova-Dimitrova, B. Burdin, B. Abrashev, M. Krapchanska, G. Raikova, D. Vladikova. "Monolithic carbon-free gas diffusion electrodes for secondary metal-air batteries" Journal of Electroanalytical Chemistry. Volume 887, 15 , 115112, 2021, **@2021** Линк **1.000**

466. Tabakova T, Ilieva L, Petrova P, Venezia M, Karakirova Y, Liotta L F, **Avdeev G**. Complete benzene oxidation over mono and bimetallic pd-Au catalysts on alumina-supported y-doped ceria. Applied Sciences, 10, 2020, DOI:https://doi.org/10.3390/app10031088, SJR (Scopus):0.42

Цитира се в:

1328. Liu, Z., Cheng, L., Zhangxue, S., Huang, M., Zeng, J., Yuan, S., Bo, Q., Zhang, B., Jiang, Y., Enhancement of propane combustion activity over CoO: X catalysts by introducing C2-C5diols, (2021) New Journal of Chemistry, 45 (19), pp. 8795-8805., **@2021** Линк **1.000**

467. Harizanova R, Gugov I, Avramova I, Mihailova I, **Avdeev G**, Rüssel C. Phase composition and spectroscopic characterization of barium titanate containing glass ceramics. NATO Science for Peace and Security Series. Sub-Series B. Physics and Biophysics, 2020, DOI:https://doi.org/10.1007/978-94-024-2018-0_26, SJR (Scopus):0.11

Цитира се в:

1329. Savvova, I.V., Fesenko, O.I., Voronov, G.K., Tymofieiev, V.D., Babich, O.V., Investigation of the structure glass-ceramic materials according to data of ir spectroscopy, (2021) Voprosy Khimii i Khimicheskoi Tekhnologii, 2021 (6), pp. 71-78., **@2021** Линк **1.000**

468. Fainerman, V.B., Aksenenko, E.V., Makievski, A.V., Trukhin, D.V., Yeganehzad, S., **Gochev, G.**, Miller, R.. Surface tension and dilational rheology of mixed β-casein – β-lactoglobulin aqueous solutions at the water/air interface. Food Hydrocolloids, 106, Elsevier, 2020, ISSN:0268-005X, DOI:https://doi.org/10.1016/j.foodhyd.2020.105883, SJR (Scopus):2.16, JCR-IF (Web of Science):7.053

Цитира се в:

1330. Hinderink, E. B. A., Sagis, L., Schroën, K., & Berton-Carabin, C. C. (2021). Sequential adsorption and interfacial displacement in emulsions stabilized with plant-dairy protein blends. Journal of Colloid and Interface Science, 583, 704-713. doi:10.1016/j.jcis.2020.09.066, **@2021** Линк **1.000**

1331. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

469. **Gochev, G.G.**, Ulaganathan, V., Retzlaff, I., Gehin-Delval, C., Gunes, D.Z., Leser, M., Kulozik, U., Miller, R., Braunschweig, B.. β-Lactoglobulin Adsorption

Layers at the Water/Air Surface: 4. Impact on the Stability of Foam Films and Foams. Minerals, 10, 7, MDPI, 2020, ISSN:2075-163X, DOI:https://doi.org/10.3390/min10070636, SJR (Scopus):0.49, JCR-IF (Web of Science):2.38

Цитира се в:

1332. Gawel, D., & Zawala, J. (2021). Stability of liquid films formed by a single bubble and droplet at Liquid/Gas and Liquid/Liquid interfaces in bovine serum albumin solutions. ACS Omega, 6(28), 18289-18299. doi:10.1021/acsomega.1c02188, **@2021** Линк **1.000**

1333. Janssen, F., Wouters, A. G. B., Chatzigiannakis, E., Delcour, J. A., & Vermant, J. (2021). Thin film drainage dynamics of wheat and rye dough liquors and oat batter liquor. Food Hydrocolloids, 116 doi:10.1016/j.foodhyd.2021.106624, **@2021** Линк **1.000**

1334. Zhou, B., Tobin, J. T., Drusch, S., & Hogan, S. A. (2021). Interfacial properties of milk proteins: A review. Advances in Colloid and Interface Science, 295 doi:10.1016/j.cis.2020.102347, **@2021** Линк **1.000**

470. Noskov, B.A., Bykov, A.G., **Gochev, G.**, Lin, S.-Y., Loglio, G., Miller, R.f, Milyaeva, O.Y.. Adsorption layer formation in dispersions of protein aggregates. Advances in Colloid and Interface Science, 276, Elsevier, 2020, ISSN:0001-8686, DOI:https://doi.org/10.1016/j.cis.2019.102086, 102086. SJR (Scopus):2.07, JCR-IF (Web of Science):9.922

Цитира се в:

1335. Chu, Y., Chen, L., & Wismer, W. (2021). CHAPTER 5: Controlled protein-based aggregates as interfacial stabilizers: Fabrication, mechanism and potential application as food ingredients doi:10.1039/9781839163425-00127 Retrieved from www.scopus.com, **@2021** Линк **1.000**

1336. Malakhova, Y. N., Stupnikov, A. A., & Belousov, S. I. (2021). Surface dilatational rheology of carboxyl-containing dimethylsiloxane oligomers in langmuir films at the air-water interface. BioNanoScience, 11(3), 755-761. doi:10.1007/s12668-021-00868-9, **@2021** Линк **1.000**

1337. Shengzhong Rong, Lina Zou, Ye Zhu, Ze Zhang, Hongfeng Liu, Yingcong Zhang, Hui Zhang, Hongmin Gao, Hongjun Guan, Jing Dong, Yupeng Guo, Fenghai Liu, Xiaoxia Li, Hongzhi Pan, Dong Chang "2D/3D material amplification strategy for disposable label-free electrochemical immunosensor based on rGO-TEPA@Cu-MOFs@SiO2@AgNPs composites for NMP22 detection" Microchemical Journal, 168 doi:10.1016/j.microc.2021.106410, **@2021** Линк **1.000**

1338. Wang, L., Bäcklund, F. G., Yuan, Y., Nagamani, S., Hanczyc, P., Sznitko, L., & Solin, N. (2021). Air-water interface assembly of protein nanofibrils promoted by hydrophobic additives. ACS Sustainable Chemistry and Engineering, 9(28), 9289-9299. doi:10.1021/acssuschemeng.1c01901, **@2021** Линк **1.000**

1339. Wasilewska, M., Nattich-Rak, M., Pomorska, A., & Adamczyk, Z. (2021). Mechanism of myoglobin molecule adsorption on silica: Qcm, owls and afm investigations. International Journal of Environmental Research and Public Health, 18(9) doi:10.3390/ijerph18094944, **@2021** Линк **1.000**

471. **Andreeva, R.**, **Stoyanova, E.**, Tsanev, A., **Stoychev, D.**. Influence of the processes of additional phosphate post-treatment of ceria conversion coatings deposited on Al 1050 on their corrosion protective behavior. Journal of Physics: Conference Series, 1492, 012019, 2020, DOI:10.1088/1742-6596/1492/1/012019, SJR (Scopus):0.227

Цитира се в:

1340. Chen, X., Xu, S., Growth process of molybdate conversion coating on the surface of aluminum foil and its adhesive mechanism, Surface and Interface Analysis 53(12), pp. 1048-1058, 2021 https://doi.org/10.1002/sia.7006, **@2021** Линк **1.000**

472. Dilova T., Atanasova G., Dikovska A. Og., **Avdeev G.**, Machida M., Terakawa M., Stefanov P., Nedyalkov N.. Effect of Pd-decoration on the sensing properties of ZnO nanostructures. Thin Solid Films, 693, Elsevier B.V., 2020, ISSN:00406090, DOI:10.1016/j.tsf.2019.137693, 137693. SJR (Scopus):0.51, JCR-IF (Web of Science):2.03

Цитира се в:

1341. Galstyan, V., D'Arco, A., Di Fabrizio, M., Poli, N., Lupi, S., Comini, E., Detection of volatile organic compounds: From chemical gas sensors to terahertz spectroscopy (2021) Reviews in Analytical Chemistry, 40 (1), pp. 33-57. Cited 2 times., **@2021** Линк **1.000**

1342. Qin, C., Wang, B., Li, P., Sun, L., Han, C., Wu, N., Wang, Y., Metal-organic framework-derived highly dispersed Pt nanoparticles-functionalized ZnO polyhedrons for ppb-level CO detection, (2021) Sensors and Actuators, B: Chemical, 331, art. no. 129433, . Cited 5 times., **@2021** Линк **1.000**

1343. Tomić, M., Claros, M., Gràcia, I., Figueras, E., Cané, C., Vallejos, S., Zno structures with surface nanoscale interfaces formed by au, fe2o3, or cu2o modifier nanoparticles: Characterization and gas sensing properties (2021) Sensors, 21 (13), art. no. 4509, , **@2021** Линк **1.000**

1344. Tomic, M., Gracia, I., Figueras, E., Cane, C., Vallejos, S., ZnO Nanorods and Their Modification with Au Nanoparticles for UV-light Activated Gas Sensing, (2021) Proceedings of the 2021 13th Spanish Conference on Electron Devices, CDE 2021, art. no. 9455726, pp. 117-120., **@2021** Линк **1.000**

1345. Yu, S., Zhang, D., Li, Q.. Room Temperature Acetone-Sensing Properties of Ru-Doped MoSe Nanoflowers: Experimental and Density Functional Theory Study, (2021) IEEE Electron Device Letters, 42 (5), art. no. 9382974, pp. 739-742., **@2021** Линк **1.000**

473. **Milkova, V.**, Goycoolea, F. M.. Encapsulation of caffeine in polysaccharide oil-core nanocapsules. Colloid and Polymer Science, 298, Elsevier, 2020, ISSN:0303-402X, DOI:doi.org/10.1007/s00396-020-04653-0., 1035-1041. SJR (Scopus):0.39, JCR-IF (Web of Science):1.536

Цитира се в:

1346. 196. Parteek Prasher, Mousmee Sharma, Meenu Mehta, Saurabh Satija, Alaa A. Aljabali, Murtaza M. Tambuwala, Krishnan Anand, Nitin Sharma, Harish Dureja, Niraj Kumar Jha, Gaurav Gupta, Monica Gulati, Sachin Kumar Singh, Dinesh K. Chellappan, Keshav R. Paudel, Philip M. Hansbro, Kamal Dua, Current-status and applications of polysaccharides in drug delivery systems, Colloid and Interface Science Communications, 42 (2021) 100418., **@2021** Линк **1.000**

1347. Xibo Yan, Luxiao Chai, Etienne Fleury, François Ganachaud, Julien Bernard, 'Sweet as a Nut': Production and use of nanocapsules made of glycopolymer or polysaccharide shell, Progress in Polymer Science, 120 (2021) 101429., **@2021** Линк **1.000**

474. **Milchev, A.**, Zidek, J., Jancar, J.. Dynamic Responsive Formation of Nanostructured Fibers in a Hydrogel Network: A Molecular Dynamics Study,. J. Frontiers in Chemistry, 8, 2020, 120. SJR (Scopus):0.85, JCR-IF (Web of Science):3.693

Цитира се в:

1348. Zhang, J., Wang, D., Ying, Y., Zhou, H., Liu, X., Hu, X., Chen, Y., Li, Q., Zhang, X., Qiu, M. "Grayscale-patterned metal-hydrogel-metal microscavity for dynamic multi-color display". Nanophotonics, 10 (16), pp. 4125-4131, 2021, **@2021** Линк **1.000**

475. **Dimi Arabadzhieva**, **Plamen Tchoukov**, **Elena Mileva**. Impact of Adsorption Layer Properties on Drainage Behavior of Microscopic Foam Films: The Case of Cationic/Nonionic Surfactant Mixtures. Colloids and Interfaces, 4, 4, MDPI, 2020, ISSN:2504-5377, DOI:10.3390/colloids4040053

Цитира се в:

1349. Ziaee O., Zolfaghari N., Baghani M., Baniassadi M., Simulating favorable adsorption in lithium-ion batteries using a novel cellular-automaton-based method. Physica Scripta, 96(12), 125841, (2021), **@2021** Линк **1.000**

476. **Milchev, A.**, Binder, K.. How does stiffness of polymer chains affect their adsorption transition?. Journal of Chemical Physics, 152, 6, 2020, 064901. SJR (Scopus):1.05, JCR-IF (Web of Science):2.991

Цитира се в:

1350. Chauhan, G., Simpson, M.L., Abel, S.M. "Adsorption of semiflexible polymers in crowded environments". Journal of Chemical Physics, 155 (3), art. no. 034904, 2021, **@2021** Линк **1.000**

1351. Huang, J.-H., Sun, D.-D., Lu, R.-X. "Glass transition and dynamics of semiflexible polymer brushes". Physical Chemistry Chemical Physics, 23 (25), pp. 13895-13904, 2021, **@2021** Линк **1.000**

1352. Jiang, J. "Non-monotonic Effects of Intrinsic Stiffness and Concentration of Polyelectrolytes on the Electro-Sorption". Macromolecules, 54 (4), pp. 1801-1810, 2021, **@2021** Линк **1.000**

1353. Jiang, J. "Software Package: An Advanced Theoretical Tool for Inhomogeneous Fluids (Atif)". Chinese Journal of Polymer Science, 2021, **@2021** Линк **1.000**

1354. Kim, J., Kim, J.M., Baig, C. "Intrinsic chain stiffness in flexible linear polymers under extreme confinement". Polymer, 213, art. no. 123308, 2021, **@2021** Линк **1.000**

1355. Kim, J.M. "Influence of chain stiffness on semiflexible polymer melts in two dimensions via molecular dynamics simulation". Molecular Simulation, 47 (15), pp. 1290-1298, 2021, **@2021** Линк **1.000**

1356. Morozova, T.I., García, N.A., Barrat, J.-L., Luengo, G.S., Léonforte, F. "Adsorption and Desorption of Polymers on Bioinspired Chemically Structured Substrates". ACS Applied Materials and Interfaces, 13 (25), pp. 30086-30097, 2021, **@2021** Линк **1.000**

1357. Poblete, S., Božič, A., Kanduč, M., Podgornik, R., Guzman, H.V. "RNA Secondary Structures Regulate Adsorption of Fragments onto Flat Substrates". ACS Omega, 6 (48), pp. 32823-32831, 2021, **@2021** Линк **1.000**

1358. Taylor, M.P., Basnet, S., Luettmer-Strathmann, J. "Partition-function-zero analysis of polymer adsorption for a continuum chain model". Physical Review E, 104 (3), art. no. 034502, 2021, **@2021** Линк **1.000**

477. **Milchev, A**, Binder, K.. Semiflexible polymers interacting with planar surfaces: Weak versus strong adsorption. Polymers, 12, 2, 2020, 255. SJR (Scopus):0.7, JCR-IF (Web of Science):3.426

Цитира се в:

1359. Corsi, P., González García, Á., Roma, E., Gasperi, T., Capone, B. "Coarse graining and adsorption in bottlebrush-colloid mixtures". Soft Matter 17(13), pp. 3681-3687, 2021, **@2021** Линк **1.000**

2021

478. **Karamanov, A.**, **Karamanova, E.**, Barbieri, L., Fernada, A., Shabach, L., Taurino, R.. SINTERING AND PHASE FORMATION OF CERAMICS BASED ON PRE-TREATED MUNICIPAL INCINERATOR BOTTOM ASH . Open Ceramics, 5, March 2021, Elsevier, 2021, ISSN:2666-5395, DOI:10.1016/j.oceram.2020.100044, 100044

Цитира се в:

1360. Cheng, J., Shao, Z., Xu, T., Wei, W., Qiao, R., & Yuan, Y. (2021). Experimental research on sintering construction spoil bricks based on microwave heating technology. Environmental Science and Pollution Research, 1-14., **@2021** **1.000**

1361. Lin, D.F., Lin, K.L., Shieh, S.I. and Chen, C.W., 2021. Study of the operative conditions and the optimum amount of municipal incinerator bottom ash for the obtainment of ceramic floor tiles. Environmental Science and Pollution Research, pp.1-14., **@2021** **1.000**

479. Borisov, G., **Bachvarov, V.**, Penchev, H., **Rashkov, R.**, Slavcheva, E.. Multi-metallic electrodeposited catalysts applicable for oxygen evolution reaction in AEM water electrolysis. Materials letters, 286, Elsevier, 2021, ISSN:0167-577X, 129248-129250. SJR (Scopus):0.755, JCR-IF (Web of Science):3.423

Цитира се в:

1362. Raja Sulaiman R.R., Wong W.Y., Loh K.S.. "Recent developments on transition metal–based electrocatalysts for application in anion exchange membrane water electrolysis". International Journal of Energy Research, **@2021** Линк **1.000**

480. **Milchev, A.**, Binder, K.. CYLINDRICAL CONFINEMENT OF SOLUTIONS CONTAINING SEMIFLEXIBLE MACROMOLECULES: SURFACE-INDUCED NEMATIC ORDER VERSUS PHASE SEPARATION. Soft Matter, 17, 12, 2021, ISSN:1744-683X, DOI:10.1039/D1SM00172H, 3443-3454. SJR (Scopus):0.99, JCR-IF (Web of Science):3.679

Цитира се в:

1363. Herranz, M., Martínez-Fernández, D., Ramos, P.M., Foteinopoulou, K., Karayiannis, N.C., Laso, M. "Simu-D: A simulator-descriptor suite for polymer-based systems under extreme conditions". International Journal of Molecular Sciences, 22 (22), art. no. 12464, 2021, **@2021** Линк **1.000**

1364. Zhao, X., Bartolucci, G., Honigmann, A., Jülicher, F., Weber, C.A. "Thermodynamics of wetting, prewetting and surface phase transitions with surface binding". New Journal of Physics, 23 (12), art. no. 123003, 2021, **@2021** Линк **1.000**

481. Mozaffari, S., Ghasemi, H., **Tchoukov, P.**, Czarnecki, J., Nazemifard, N.. Lab-on-a-Chip Systems in Asphaltene Characterization: A Review of Recent Advances. Energy & Fuels, 35, 2021, ISSN:0887-0624, DOI:10.1021/acs.energyfuels.1c00717, 9080-9101. SJR (Scopus):0.861, JCR-IF (Web of Science):3.605

Цитира се в:

1365. Al-Bahrani, M. and Cree, A., In situ detection of oil leakage by new self-sensing nanocomposite sensor containing MWCNTs. Applied Nanoscience, 11(9), pp.2433-2445, 2021., **@2021** **1.000**

1366. Díaz-Piloneta, M., Terrados-Cristos, M., Álvarez-Cabal, J.V. and Vergara-González, E., Comprehensive analysis of steel slag as aggregate for road construction: experimental testing and environmental impact assessment. Materials, 14(13), p.3587., 2021, **@2021** **1.000**

1367. Gong, H., Qiu, Z., Peng, Y., Yu, B., Liao, Z., Chen, L. and Xin, L., Separation characteristics and structure optimization of double spherical tangent double-field coupling demulsifier. Journal of Petroleum Exploration and Production Technology, pp.1-15., 2021., **@2021** **1.000**

1368. Mahdavi, S. and Mousavi Moghadam, A., Critical Review of Underlying Mechanisms of Interactions of Asphaltenes with Oil and Aqueous Phases in the Presence of Ions. Energy & Fuels, 35(23), pp.19211-19247, 2021., **@2021** **1.000**

1369. Razzaghi-Koolaee, F., Zargar, G., Soltani Soulgani, B. and Mehrabianfar, P., Application of a non-ionic bio-surfactant instead of chemical additives for prevention of the permeability impairment of a swelling sandstone oil reservoir. Journal of Petroleum Exploration and Production Technology, pp.1-17, 2021., **@2021** **1.000**

1370. Shoaib, M., Raja, M.A.Z., Sabir, M.T., Nisar, K.S., Jamshed, W., Felemban, B.F. and Yahia, I.S., MHD Hybrid Nanofluid Flow Due to Rotating Disk with Heat Absorption and Thermal Slip Effects: An Application of Intelligent Computing. Coatings, 11(12), p.1554, 2021., **@2021** **1.000**

1371. Snosy, M.F., Abu El Ela, M., El-Banbi, A. and Sayyouh, H., 2021. Comprehensive investigation of low salinity waterflooding in carbonate reservoirs. Journal of Petroleum Exploration and Production Technology, pp.1-24., **@2021** **1.000**

1372. Yang, Y., Qi, C., Chao, Z., Xiaolong, W., Zhe, J., Zhuoran, G. and Liang, C., Study on gelation, temperature resistance and micromorphology of modified nano-ZrO2 crosslinked hydroxypropyl guar gum. Journal of Petroleum Exploration and Production Technology, pp.1-9, 2021., **@2021** **1.000**

1373. Шалыгин, А.С., Милованов, Е.С., Якушкин, С.С. and Мартьянов, О.Н., Химическая неоднородность нефтяных осадков, образующихся в потоке флокулянта, по данным ИК-Фурье микроскопии и химической визуализации. Нефтехимия, 61(5), pp.632-641, 2021., **@2021** **1.000**

482. **Milkova, V.**. Electrosteric stabilization of oil/water emulsions by adsorption of chitosan oligosaccharides - An electrokinetic study. Carbohydrate polymers, 265, Elsevier, 2021, ISSN:0144-8617, DOI:10.1016/j.carbpol.2021.118072, 118072. SJR (Scopus):1.64, JCR-IF (Web of Science):9.381

Цитира се в:

1374. Toledo, Antônio Matias Navarretede , Silva, Nathália Cristina Cirone , Sato, Ana Carla Kawazoe , Picone, Carolina Siqueira Franco. "A comprehensive study of physical, antimicrobial and emulsifying properties of self-assembled chitosan/lecithin complexes produced in aqueous media". Future Foods, 4 (2021), 100083., **@2021** Линк **1.000**

483. **Kamburova, K.**, **Boshkova, N.**, **Boshkov, N.**, **Radeva, Ts.**. Composite coatings with polymeric modified ZnO nanoparticles and nanocontainers with inhibitor for corrosion protection of low carbon steel. COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 609, Elsevier, 2021, ISSN:18734359, DOI:10.1016/j.colsurfa.2020.125741, 125741. SJR (Scopus):0.762, JCR-IF (Web of Science):3.99

Цитира се в:

1375. Cui L., Hang M., Huang H., Gao X., "Experimental study on multi-component corrosion inhibitor for steel bar in chloride environment", Construction and Building Materials, 313, 125533, **@2021** Линк **1.000**

1376. Fan, B., Liu, Z., Zhao, X., Liu, H., Fan, G., Hao, H., Fabrication, characterization and efficient surface protection mechanism of poly(trans-cinnamaldehyde) electropolymerized coatings for EH36 steel in simulated seawater, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 629, art. no. 127434 (2021), **@2021** Линк **1.000**

1377. Goncharova D., Bolbasov E., Nemoykina A., Aljulaih A., Tverdokhlebova T., Kulinich S., Svetlichnij V., "Structure and Properties of Biodegradable PLLA/ZnO Composite Membrane Produced via Electrospinning", Materials, 2021, 14, art. no. 2, pp. 1-13, **@2021** Линк **1.000**

1378. Qiao G., Wang S., Wang X., , Chen X., Wang X., Cui H., "Ni/Co/black phosphorus nanocomposites for Q235 carbon steel corrosion-resistant coating", Advanced Composites and Hybrid Materials, **@2021** Линк **1.000**

1379. Rahali E., Alves M., M., El-Bassi L., Bousselmi L., Montemor M.F., Akrout H., „Enhanced protection of hybrid polyetherimide-ZnO or CuO bilayer **1.000**

composite coatings against mild steel corrosion in chloride media“, Progress in Organic Coatings, 106602, **@2021** Линк

1380. Zhao, F., Li, Q., Wang, J., Wenbin, H., Preparation and Corrosion Resistance of ZnO Films under Different Annealing Temperatures and Their Resistive Switching Behaviours, International Journal of Electrochemical Science, 16 (6), pp. 1-24 (2021), **@2021** Линк **1.000**

484. Stambolova, I., **Boshkov, N.**, **Boshkova, N.**, Stoyanova, D., Shipochka, M., Simeonova, S., Grozev, N.. “Environmentally-friendly Anticorrosive Layered Zirconia/Titania/Low-Carbon Steel Structures”. Materials Proceedings, 4, 75, MDPI, 2021, ISSN:2214-7853

Цитира се в:

1381. Marish S. Madlangbayan, Diola C.N.B., Tapia A.K.G., Peralta M.M., Peralta E.K., Almeda R.A., Bayhon M.A.L., Sundo M.B., „Corrosion Inhibition of Sodium Silicate with Nanosilica as Coating in Pre-Corroded Steel”, Civil Engineering Journal, 7, 1806-1816., **@2021** Линк **1.000**

485. Kavetskyy, T., Boev, V., Ilcheva, V., Kukhazh, Y., Smutok, O., Pan’kiv, L., Šauša, O., Švajdlenková,H., **Tatchev, D.**, **Avdeev, G.**, Gericke, E., Hoell, A., Rostamnia, S., Petkova, T.. Structural and free volume characterization of sol–gel organic–inorganic hybrids, obtained by co-condensation of two ureasilicate stoichiometric precursors. J. Appl. Polym. Sci., 138, 2021, ISSN:1097-4628, DOI:10.1002/app.50615, SJR (Scopus):0.575

Цитира се в:

1382. Sun, Y., Ding, Y., Zhou, W., Wang, X., Tan, C., Matsumura, Y., Ochiai, B., Chu, Q., Synthesis and Selective Au(III) Adsorption of Ureido Polymers Containing Large Repeating Rings, (2021) ACS Omega, 6 (42), pp. 28004-28011., **@2021** Линк **1.000**

486. Harizanova, R., Bocker, C., **Avdeev, G.**, Slavov, S., Costa, L. C., Avramova, I., Rüssel, C.. Microstructure and electrical conduction of iron-doped barium titanate glass-ceramics. J. Non. Cryst. Solids, 560, 2021, ISSN:0022-3093, DOI:10.1016/j.jnoncrysol.2021.120711, SJR (Scopus):0.764

Цитира се в:

1383. Wang, M., Feng, Q., Wei, Y., Luo, N., Yuan, C., Zhou, C., Fujita, T., Xu, J., Chen, G., Relaxor ferroelectric Bi0.5Na0.5TiO3–Sr0.7Nd0.2TiO3 ceramics with high energy storage density and excellent stability under a low electric field, (2021) Journal of Physics and Chemistry of Solids, 157, art. no. 110209, **@2021** Линк **1.000**

487. Stambolova I., Stoyanova D., Shipochka M., Blaskov V., Nihtianova D., Markov P., Eliyas A., Mladenova R., Dimitrov L., Abrashev M., **Avdeev G.**, Zaharieva K.. Enhanced effect of combination of new hybrid TiO2 phase and phosphorus dopant on the physicochemical properties and UV/Visible light photocatalytic activity. Mater. Charact., 172, 2021, ISSN:1044-5803, DOI:https://doi.org/10.1016/j.matchar.2020.110775, SJR (Scopus):1.19

Цитира се в:

1384. Hassankhani-Majd, Z., Anbia, M.. Comparative Study of Synthesis Parameters of Nanoporous Titania Particles to Improve Structural Properties and Photocatalytic Activity (2021) ChemistrySelect, 6 (47), pp. 13488-13498., **@2021** Линк **1.000**

488. Marshall, T., Marangoni, A.G., Lim, L.-T., **Tchoukov, P.**, Pensini, E.. Oxidizing Emulsifiers: Gelators for Water in Hydrocarbon Reactive Emulsions. Journal of Environmental Chemical Engineering, 9, Elsevier, 2021, ISSN:2213-3437, DOI:https://doi.org/https://doi.org/10.1016/j.jece.2020.104998, 1104998. SJR (Scopus):0.965, JCR-IF (Web of Science):5.909

Цитира се в:

1385. Moodley, P.P., Lokhat, D., Ahmad, A., Mishra, A. and Meikap, B.C., 2021. Kinetic studies on the potential use of citrus-based green and low-cost demulsifying agents for the oil-in-water emulsions’ treatment. Journal of Environmental Chemical Engineering, p.107127., **@2021** **1.000**

Анекс към годишния отчет за 2021 г. за цитирания за 2020 г., добавени към данните за научната продукция за двегодишния период 2020-2021 г.

Hristina Popova and Andrey Milchev, Phys. Rev. E 77, 041906 (2008), се цитира от:
1. Aldo Pezzutti, Gaston Araujo, WSEAS Transactions on Applied and Theoretical Mechanics 15, 98-107 (2020), "Crumpling and Buckling in Membranes with Hexagonal Phase", DOI: 10.37394/232011.2020.15.12

H. Popova, Serdica Journal of Computing 8 (4), 363-388 (2014), се цитира от:
2. RICARDO GONZÁLEZ-LÓPEZ, JAVIER B. GÓMEZ and AMALIO F. PACHECO, Advances in Complex Systems 23 (1), 2050002 (2020), "A MINIMAL AGENT-BASED MODEL FOR THE SIZE-FREQUENCY DISTRIBUTION OF FIRMS", DOI: 10.1142/S0219525920500022

Ivaylo L. Dimitrov, Crystal nucleation from solutions of proteins with temperature-independent solubility: a case study of apoferritin, CrystEngComm 21 (2019) 1279–1287, се цитира от:

3. Joana Ferreira, Protein crystallization in droplet-based microsystems, KU Leuven – Faculty of Engineering Science, Belgium. 2020, „In Vitro Dissolution of Insulin Crystal Polymorphs at Model Conditions Relevant to In Vivo Environment“

I. Dimitrov, F. Hodzhaoglu, and I. Ivanov. Dissolution Technologies 20 (4) (2013) 11–16, се цитира от:
4 Joana Ferreira, Protein crystallization in droplet-based microsystems, KU Leuven – Faculty of Engineering Science, Belgium. 2020, „Kinetics of insulin crystal nucleation, energy barrier and nucleus size“

C. N. Nanev, F. V. Hodzhaoglu, I. L. Dimitrov,. Cryst. Growth Des. 11 (1) (2011) 196-202, се цитира от:

5. Joana Ferreira, Protein crystallization in droplet-based microsystems, KU Leuven – Faculty of Engineering Science, Belgium. 2020, „Nucleation of insulin crystals in a wide continuous supersaturation gradient“.

Anita Penkova, Ivaylo Dimitrov, and Christo N. Nanev. Ann. N.Y. Acad. Sci. 1027 (2004) 56–63, се цитира от:

6. Joana Ferreira, „Protein crystallization in droplet-based microsystems“, KU Leuven – Faculty of Engineering Science, Belgium. 2020

F.V. Hodzhaoglu, M. Conejero-Muriel, I.L. Dimitrov, J.A. Gavira, „Optimization of the classical method for nucleation and growth of rhombohedral insulin crystals by pH titration and screening“, Bulgarian Chemical Communications 48, Special Issue A (2016) 29-37, се цитира от:

7. Joana Ferreira, „Protein crystallization in droplet-based microsystems“, KU Leuven – Faculty of Engineering Science, Belgium. 2020

C. N. Nanev, V. D. Tonchev, and F. V. Hodzhaoglu, „Protocol for growing insulin crystals of uniform size“, Journal of Crystal Growth 375 (2013) 10–15, се цитира от:

8. Joana Ferreira, Protein crystallization in droplet-based microsystems, KU Leuven – Faculty of Engineering Science, Belgium. 2020

C. N. Nanev and F. V. Hodzhaoglu, Temperature control of protein crystal nucleation, Crystal Research & Technology 47 (11) (2012) 1195–1200, се цитира от:

9. Joana Ferreira, Protein crystallization in droplet-based microsystems, KU Leuven – Faculty of Engineering Science, Belgium. 2020