

ЦИТАТИ НА
ИНСТИТУТ ПО ФИЗИКОХИМИЯ „АКАД. РОСТИСЛАВ КАИШЕВ”
2012 г.

A. Milchev and V. Tsakova, Theory of progressive nucleation and growth accounting for the ohmic drop in the electrolyte-I, J. Appl. Electrochem., 20 (1990) 301-306. ISSN: 0021891X.

1. Q. Zhang, Y. Hua, Influence of [BMIM]HSO₄ on electrodeposition and corrosion behavior of Zn coatings from acidic sulfate bath, Surface and Interface Analysis 44 (2012) 1254-1260; ISSN: 01422421.

V.Tsakova and A.Milchev, Electrochemical formation and stability of polyaniline films, Electrochim. Acta, 36 (1991) 1579-1583; ISSN: 00134686.

2. H. Karami, M.G. Asadi, M. Mansoori, Pulse electropolymerization and the characterization of polyaniline nanofibers, Electrochimica Acta 61 (2012) 154-164. ISSN: 00134686.
3. H.-Z. Wang, W.-H. Liu, J. Li, S.-W. Yao, W.-G. Zhang, Preparation and characterization of polyaniline film by potentiostatic pulse method, Gaodeng Xuexiao Huaxue Xuebao/Chemical Journal of Chinese Universities 33 (2012) 421-425; ISSN: 0251-0790.
4. Y. Wang, K. Levon, Influence of dopant on electroactivity of polyaniline (Conference Paper), Macromolecular Symposia 317-318 (2012) 240-247 ISSN:10221360.
5. K. Bade, V. Tsakova and J.W. Schultze, Nucleation, growth and branching of polyaniline from microelectrode experiments, Electrochim. Acta, 37 (1992) 2255-2261. ISSN: 00134686.
6. H. Karami, M.G. Asadi, M. Mansoori, Pulse electropolymerization and the characterization of polyaniline nanofibers, Electrochimica Acta 61 (2012) 154-164. ISSN: 00134686.
7. M.R. Gisdavic-Nikolaidis, M. Jevremovic, D.R. Stanisavljev, Z.D. Zujovic, Enhanced microwave synthesis: Fine-tuning of polyaniline polymerization, J. Phys. Chem. C, 116, (2012) 3235-3241, ISSN: 19327447.
8. C. Liu, K. Hayashi, K.Toko, Au nanoparticles decorated polyaniline nanofiber sensor for detecting volatile sulfur compounds in expired breath, Sens. Actuators, B: Chemical, 161 (2012) 504-509, ISSN: 09254005.

9. J.Simitzis, S. Soulis, D. Triantou, Electrochemical synthesis and characterization of conducting copolymers of biphenyl with pyrrole, *J. Appl. Polym. Sci.* 125 (2012) 1928-1941; ISSN: 1097-4628.
 10. A.S. Cuharuc, L.L. Kulyuk, R.I. Lascova, A.A. Mitioglu, A.I. Dikusar, Electrochemical characterization of PbS quantum dots capped with oleic acid and PbS thin films - a comparative study, *Surf. Eng. Appl. Electrochem.*, 48 (2012) 193. ISSN: 10683755.
 11. Y. Mohd, R. Ibrahim, M.F. Zainal, Electrodeposition and characterization of Polyaniline films (Conference Paper), SHUSER 2012 - 2012 IEEE Symposium on Humanities, Science and Engineering Research, 2012, Article number 6268811, Pages 1301-1306; ISSN: 2229-5518.
 12. D. Kowalski, P. Schmuki, Advanced geometries of PEDOT formed in titania nanotubes, *ChemPhysChem*, 13(2012) 3790-3793; ISSN: 14394235
 13. V. Tsakova, A. Milchev and J.W. Schultze, Growth of polyaniline films under pulse potentiostatic conditions, *J. Electroanal. Chem.*, 346 (1993) 85-97. ISSN: 15726657.
 14. H. Karami, M.G. Asadi, M. Mansoori, Pulse electropolymerization and the characterization of polyaniline nanofibers, *Electrochimica Acta* 61 (2012) 154-164. ISSN: 00134686.
 15. M.A. del Valle, M.A.Gacitúa, E.D. Borrego, P.P. Zamora, F.R. Díaz, M.B. Camarada, M.P. Antilén, J.P.Soto, Electro-synthesis and characterization of aniline and o-anisidine oligomers, *International Journal of Electrochemical Science*, 7 (2012) 2552-2565; ISSN: 1452-3981.
- J.W. Schultze and V. Tsakova, Electrochemical microsystem technologies: from fundamental research to technical systems, *Electrochim. Acta*, 44 (1999) 3605-3627. ISSN: 00134686.**
16. M. Sánchez, N. Aouina, D. Rose, P. Rousseau, H. Takenouti, V. Vivier, Assessment of the electrochemical microcell geometry by local electrochemical impedance spectroscopy of copper corrosion, *Electrochimica Acta*, 62 (2012) 276-281, ISSN: 00134686.
- V. Tsakova, S. Winkels and J. W. Schultze, Anodic polymerization of 3,4-ethylenedioxothiophene from aqueous microemulsions, *Electrochim. Acta*, 46 (2000) 759-768. ISSN: 00134686.**
17. S. Kakhki, M.M. Barsan, E. Shams, C.M.A. Brett, Development and characterization of poly(3,4-ethylenedioxothiophene)-coated poly(methylene blue)-

modified carbon electrodes, *Synthetic Metals*, 161 (2012) 2718-2726, ISSN: 03796779.

18. Y. Wen, J. Xu, M. Liu, D. Li, L. Lu, R. Yue, H. He, A vitamin C electrochemical biosensor based on one-step immobilization of ascorbate oxidase in the biocompatible conducting poly(3,4- ethylenedioxothiophene)-lauroylsarcosinate film for agricultural application in crops, *J. Electroanal. Chem.* 674 (2012) 71-82; ISSN: 0022-0728.
19. E. Nasybulin, S. Wei, I. Kymmissis, K. Levon, Effect of solubilizing agent on properties of poly(3,4- ethylenedioxothiophene) (PEDOT) electrodeposited from aqueous solution, *Electrochim. Acta* 78 (2012) 638-643; ISSN: 0013-4686.
20. Y.-J. Tao, H.-F. Cheng, W.-W. Zheng, Z.-Y. Zhang, D.-Q. Liu, Electrosyntheses and characterizations of copolymers based on pyrrole and 3,4-ethylenedioxothiophene in aqueous micellar solution, *Synth. Met.* 162 (2012) 728-734; ISSN: 03796779.
21. Y. Wen, J. Xu, M. Liu, D. Li, H. He, Amperometric vitamin C biosensor based on the immobilization of ascorbate oxidase into the biocompatible sandwich-type composite film, *Appl. Biochem. Biotechnol.*, 167 (2012) 2023;ISSN: 02732289.

N. Cioffi, L. Torsi, I. Losito, C. Di Franco, I. De Bari, L. Chiavarone, G. Scamarcio, V. Tsakova, L. Sabbatini, P.G. Zambonin, Electrosynthesis and analytical characterisation of polypyrrole thin films modified with copper nanoparticles, *J. Mater. Chem.*, 11 (2001) 1434-1440. ISSN: 09599428

22. S.K. Kim, S. Jeon, Simultaneous determination of serotonin and dopamine at the PEDOP/MWCNTs-Pd nanoparticle modified glassy carbon electrode, *J. Nanosci. Nanotechnol.* 12 (2012) 1903-1909; ISSN: 15334880.
23. P. Giannoccaro, M. Casiello, A. Milella, A. Monopoli, P. Cotugno, A. Nacci, Synthesis of 5-membered cyclic carbonates by oxidative carbonylation of 1,2-diols promoted by copper halides, *Journal of Molecular Catalysis A: Chemical*, 365 (2012) 162-171; ISSN: 1381-1169.
24. L.A. Zemskova, A.V. Voit, T.A. Kaidalova, N.N. Barinov, Yu. M. Nikolenko, A.M. Ziatdinov, Organic-mineral composites copper oxide/chitosan/carbon fiber obtained by the electrodeposition method, *Russian Journal of Applied Chemistry* 85 (2012) 1212-1219. ISSN: 10704272.

V. Tsakova, D. Borissov, B. Ranguelov, Ch. Stromberg, J. W. Schultze, Electrochemical incorporation of copper in polyaniline layers, *Electrochim. Acta*, 46 (2001) 4213-4222. ISSN: 00134686.

25. M.R. Guascito, C. Malitestaa, L. Sabbatini, Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, Materials Chemistry and Physics 131 (2012) 719– 727, ISSN: 02540584.
26. M.Yu. Chaika, E.V. Bulavina, A.S. Solyanikova, T.A. Kravchenko, P.V. Seredin, The mechanism of electroreduction of nitrate ions on a hybrid electrode nanodispersed copper-MK-40 membrane, Russian J. Electrochem. 48 (2012), 212-217; ISSN: 1023-1935.

V. Tsakova, D. Borissov, S. Ivanov, Role of the polymer synthesis conditions for the copper electrodeposition in polyaniline, Electrochim. Commun. 3 (2001) 312-316. ISSN: 1388-2481

27. M.R. Guascito, C. Malitestaa, L. Sabbatini, Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, Materials Chemistry and Physics 131 (2012) 719– 727 ISSN: 02540584.
28. E. Ventosa, A. Colina, A. Heras, V. Ruiz, J. Garoz, J. López-Palacios, One-pot synthesis of gold/poly(3,4-ethylenedioxythiophene) nanocomposite, J. Nanoparticle Research, 14(2012) Article number 661, ISSN: 13880764.

V. Tsakova, S. Winkels, J. W. Schultze, Crystallization kinetics of Pd in composite films of PEDT, J. Electroanal. Chem., 500 (2001) 574-583. ISSN: 15726657.

29. V.V. Kondratiev, T.A. Babkova, S.N. Eliseeva, Structure and electrochemical properties of composite films based on poly-3,4-ethylenedioxythiophene with metallic palladium inclusions, Russian J. Electrochem. 48 (2012) 205-211; ISSN: 1023-1935.
30. J. Yu, E. Lim, S. Lee, T. Kim, K.K. Lee, Poly(3,4-ethylenedioxythiophene)-indium tin oxide nanocomposites: Improved electrochromic response and efficiency, Molecular Crystals and Liquid Crystals, 564 (2012) 169-177; ISSN: 15421406.
31. M.Rezaei, S.H. Tabaian, D.F. Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, J. Electroanal. Chem. 687(2012) 95-10. ISSN: 15726657.
32. Ü. Dogan,M. Kaya, A. Cihaner, M. Volkan, Ag nanostructures on a poly(3,4-ethylenedioxythiophene) film prepared with electrochemical route: A controllable

roughened SERS substrate with high repeatability and stability, *Electrochimica Acta*, 85, 15 (2012) 220-227. ISSN: 00134686.

S. Ivanov, V. Tsakova, Influence of copper anion complexes on the incorporation of metal particles in polyaniline. Part. I. The copper citrate complex, J. Applied Electrochem., 32 (2002) 701-707. ISSN: 0021891X.

33. M.R. Guascito, C. Malitestaa, L. Sabbatini, Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, *Materials Chemistry and Physics* 131 (2012) 719– 727, ISSN: 02540584.
34. C.B. Grosan, C.Varodi, A. Vulcu, L. Olenic, S. Pruneanu, V.Almasan, Structural and electrochemical characterization of novel leucine-gold nanoparticles modified electrode, *Electrochim. Acta* 63(2012) 146-152, ISSN: 00134686.
35. M. Klucakova, Comparative study of binding behaviour of Cu(II) with humic acid and simple organic compounds by ultrasound spectrometry, *The Open Colloid Sci. J.* 5 (2012) 5-12, ISSN: 1876-5300.

S. Ivanov, V. Tsakova, Influence of copper anion complexes on the incorporation of metal particles in polyaniline. Part. II. The copper oxalate complex, J. Applied Electrochem., 32 (2002) 709-715 ISSN: 0021891X.

36. M.R. Guascito, C. Malitestaa, L. Sabbatini, Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, *Materials Chemistry and Physics* 131 (2012) 719– 727, ISSN: 02540584.

S. Ivanov, P. Mokreva, V. Tsakova, L. Terlemezyan, Electrochemical and surface structural characterization of of chemically and electrochemically synthesized polymer layers – a comparison, Thin Solid Films, 441 (2003) 44-49. ISSN: 00406090.

37. Z. Jin, D. Zhao, B. Li, X. Ren, S. Yan, C. Qin, R. Li, Hybrid supercapacitors based on polyaniline and carbon aerogels composite electrode materials, *Advanced Materials Research*, 391-392 (2012) 18-22, ISSN: 10226680.
38. S. Yalçinkaya, N. Çolak, Synthesis and characterization of poly(aniline-co-o-aminoaniline), *Designed Monomers and Polymers*, 15 (2012) 147-157; ISSN: 1385-772X
39. M. Mobin, N.Tanveer, Corrosion performance of chemically synthesized poly(aniline-co-o- toluidine) copolymer coating on mild steel, *J. Coatings Technol. Research* 9 (2012) 27-38; ISSN: 1547-0091

40. N.Tanveer, M. Mobin, Anti-corrosive properties of poly (2-pyridylamine-co-aniline-co-2,3- xylidine) terpolymer coating on mild steel in different corrosive environments, *Progress in Organic Coatings* 75 (2012) 231-240; ISSN: 03009440.

41. H. Gharibi, M. Faraji, M. Kheirmand, The Role of PANI/Nafion on the Performance of ORR in Gas Diffusion Electrodes of PEM Fuel Cell. *Electroanalysis*, 24 (2012,) 2354-2364; ISSN: 10400397

S. Ivanov, V. Tsakova, Silver electrocrystallization at polyaniline-coated electrodes, *Electrochim. Acta*, 49 (2004) 913-921. ISSN: 00134686.

42. M.R. Guascito, C. Malitestaa, L. Sabbatini, Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, *Materials Chemistry and Physics* 131 (2012) 719– 727, ISSN: 02540584.

43. D.A. Dalla Corte, C. Torres, P.D.S. Correa, E.S. Rieder, C.D.F. Malfatti, The hydrogen evolution reaction on nickel-polyaniline composite electrodes, *Inter. J. Hydrogen Energy*, 37(2012) 3025-3032, ISSN: 03603199.

M. Ilieva, V. Tsakova, Copper modified poly(3,4-ethylenedioxythiophene): Part I. Galvanostatic experiments, *Synth. Met.*, 141 (2004) 281-285. ISSN: 0379-6779.

44. M.Ş. Teker, U. Tamer, N.Ö. Pekmez, Fabrication and characterization of poly(vinylferrocenium) perchlorate/poly(3,4-ethylenedioxythiophene) composite-coated electrode in methylene chloride, *Synthetic Metals* 162 (2012) 924-930; ISSN: 03796779

M. Ilieva, V. Tsakova Copper electrocrystallization in PEDOT in presence and absence of copper -polymer stabilized species, *Electrochim. Acta*, 50 (2005) 1669-1674.

45. M.Ş. Teker, U. Tamer, N.Ö. Pekmez, Fabrication and characterization of poly(vinylferrocenium) perchlorate/poly(3,4-ethylenedioxythiophene) composite-coated electrode in methylene chloride, *Synthetic Metals* 162 (2012) 924-930; ISSN: 03796779.

S. Ivanov, V. Tsakova, Electroless versus electrodriven deposition of silver crystals in polyaniline:Role of silver anion complexes, *Electrochim. Acta*, 50 (2005) 5616-5623. ISSN: 00134686.

46. Y. Lee, E. Kim, K. Kim, B.H. Lee, S. Choe, Polyaniline effect on the conductivity of the PMMA/Ag hybrid composite, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 396 (2012) 195-202, ISSN: 09277757.

L. Komsisyska, Ts. Tsacheva, V. Tsakova, Electrochemical formation and copper modification of poly-o- methoxyaniline, *Thin Solid Films*, 493 (2005) 88-95.

- 47.** X. Wang, S. Ray, M. Gizdavic-Nikolaidis, A.J. Easteal, The effects of dopant acids on structure and properties of poly(o-methoxyaniline), *Journal of Polymer Science, Part A: Polymer Chemistry*, 50 (2012) 353-361. ISSN: 0887624X.
- 48.** S. Palaniappan, Y.-T. Chang, C. -M.Liu, P. Manisankar, Mechanochemical synthesis and characterization of poly(2,5-dimethoxy aniline) salts, *J. Appl. Polymer Sci.*, 124 (2012) 4281-4288. ISSN: 1097-4628.
- S. Ivanov, V. Tsakova, V. M. Mirsky, Conductometric transducing in electrocatalytical sensors: Detection of ascorbic acid, *Electrochemistry Communications*, 8 (2006) 643-646. ISSN: 1388-2481.**
- 49.** A. Barberis, A. Fadda, M. Schirra, G. Bazzu, P. A. Serra, Detection of postharvest changes of ascorbic acid in fresh-cut melon, kiwi, and pineapple, by using a low cost telemetric system, *Food Chemistry*, 135 (2012) 1555-1562. ISSN: 03088146.
- L. Komsytska, V. Tsakova, Ascorbic acid oxidation at non-modified and copper-modified polyaniline and poly-ortho-methoxyaniline coated electrodes, *Electroanalysis*, 18 (2006) 807-813.**
- 50.** Ch. Ruan, T. Li, X. Wang, X. Qi, J. Lou, W. Gao,W. Sun, Sensitive Electrochemical Determination of Catechol with a Graphene Modified Carbon Ionic Liquid Electrode, *Journal of the Chinese Chemical Society*, 59 (2012) 1584-1590; ISSN: 2192-6549.
- F. Kurniawan, V. Tsakova, V. M. Mirsky, Gold nanoparticles in nonenzymatic electrochemical detection of sugars, *Electroanalysis*, 18 (2006) 1937-1942. ISSN: 10400397.**
- 51.** K.Saha, S.S. Agasti, C., Kim, X. Li, V.M.Rotello, Gold nanoparticles in chemical and biological sensing, *Chem. Rev.* 112 (2012) 2739-2779; ISSN: 00092665.
- 52.** N. German, A. Ramanavicius, J. Voronovic, A. Ramanaviciene, Glucose biosensor based on glucose oxidase and gold nanoparticles of different sizes covered by polypyrrole layer, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 413 (2012) 224-230; ISSN: 09277757.
- 53.** N.ab Sattarahmady, H. Heli, A non-enzymatic amperometric sensor for glucose based on cobalt oxide nanoparticles, *Journal of Experimental Nanoscience*, 7 (2012) 529-546; ISSN: 17458080.
- 54.** M. Benaissa, A. Mbaideen, B.A. Malik, in *Dietary Sugars: Chemistry, Analysis, Function and Effects*, ed. V.R. Preedy, RSC Publ., 2012, pp.286-306. ISBN: 978-1-84973-370-0.

- 55.** X. Zhu, Ch. Li, X. Zhu, M. Xu, Nonenzymatic Glucose Sensor Based on Pt-Au-SWCNTs Nanocomposites, *Int. J. Electrochem. Sci.*, 7 (2012) 8522 – 8532; ISSN: 1452-3981.

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

- 56.** M.R. Guascito, C. Malitestaa, L. Sabbatini, Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, *Materials Chemistry and Physics* 131 (2012) 719– 727, ISSN: 02540584.
- 57.** V.V. Kondratiev, T.A. Babkova, S.N. Eliseeva, Structure and electrochemical properties of composite films based on poly-3,4-ethylenedioxothiophene with metallic palladium inclusions, *Russian J. Electrochem.* 48 (2012) 205-211; ISSN: 1023-1935.
- 58.** M.Ş. Teker, U. Tamer, N.Ö. Pekmez, Fabrication and characterization of poly(vinylferrocenium) perchlorate/poly(3,4-ethylenedioxothiophene) composite-coated electrode in methylene chloride, *Synthetic Metals* 162 (2012) 924-930; ISSN: 03796779.
- 59.** A.R. Hillman, K.S. Ryder, C.J. Zaleski, C.Fullarton, E.L. Smith, Ion transfer mechanisms accompanying p-doping of poly(3,4- ethylenedioxothiophene) films in deep eutectic solvents, *Zeitschrift fur Physikalische Chemie*, 226 (2012) 1049-1068; ISSN: 0942-9352.
- 60.** Ü. Dogan,M. Kaya, A. Cihaner, M. Volkan, Ag nanostructures on a poly(3,4-ethylenedioxothiophene) film prepared with electrochemical route: A controllable roughened SERS substrate with high repeatability and stability, *Electrochimica Acta*, 85, 15 (2012) 220-227. ISSN: 00134686.

M. Ilieva, S. Ivanov, V. Tsakova, Electrochemical synthesis and characterization of TiO₂-polyaniline composite layers, *J. Appl. Electrochem.*, 38 (2008) 63-69. ISSN: 0021891X.

- 61.** X. Li, Z. Wang, X. Li, G. Wang, G.Synthesis of a super-hydrophilic conducting polyaniline/titanium oxide hybrid with a narrow pore size distribution, *Applied Surface Science*, 258 (2012) 4788-4793; ISSN: 0169-4332.

62. V. Kanagalasara, T.V. Venkatesha, Studies on electrodeposition of Zn-MoS 2 nanocomposite coatings on mild steel and its properties, *J. Solid State Electrochem.*, 16 (2012) 993-1001; ISSN: 1432-8488.
63. K. Inoue, T. Akiyama, A. Suzuki, T. Oku, Organic solar cells based on electrodeposited polyaniline films, *Jap. J. Appl. Phys.* 51 (2012) Article number 04DK10; ISSN: 0021-4922.
64. A. Katoch, M. Burkhardt, T. Hwang, S.S. Kim, Synthesis of polyaniline/TiO 2 hybrid nanoplates via a sol-gel chemical method, *Chem. Eng. J.* 192 (2012) 262-26; ISSN: 1385-8947.
65. T. Abdiriyim, A. Ubul, R. Jamal, Y. Tian, T. Awut, I. Nurulla, Solid-state synthesis and characterization of polyaniline/nano-TiO 2 composite, *J. Appl. Polym. Sci.* 126 (2012) 697-705; ISSN: 00218995.

V. Tsakova, How to affect number, size and location of metal particles deposited in conducting polymer layers, *J. Solid State Electrochem.*, 12 (2008) 1421-1434. ISSN: 1432-8488.

66. M.R. Guascito, C. Malitestaa, L. Sabbatini, Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, *Materials Chemistry and Physics* 131 (2012) 719– 727, ISSN: 02540584.
67. Y. Zhao, Z. Cai, X. Fu, Surface changes after silver formation on a precoated surface with polyaniline for textile metallization, *Advanced Materials Research* 441 (2012) 304-308, ISSN: 10226680.
68. M.A. Booth, J. Levener, A.S. Costa, J. Kennedy, J. Travas-Sejdic, Tailoring the conductivity of polypyrrole films using low-energy platinum ion implantation, *J. Phys. Chem. C* 116 (14) (2012) 8236-8242; ISSN: 1932-7447
69. D. Sheberla, S. Patra, S. Sharma, T. Bendikov, Y. Sheynin, M. Bendikov, Controlling Pt nanoparticle formation through Se Pt interactions on the electrode surface, *Chemical Communications*, 48 (2012) 6776-6778; ISSN:
70. Q. Jia, S. Shan, L. Jiang, Y. Wang, D. Li, Synergistic antimicrobial effects of polyaniline combined with silver nanoparticles, *J. Appl. Polym. Sci.* 125 (2012) 3560-3566; ISSN: 00218995.
71. R. Yue, F. Jiang, Y. Du, J. Xu, P. Yang, Electrosynthesis of a novel polyindole derivative from 5-aminoindole and its use as catalyst support for formic acid electrooxidation, *Electrochim. Acta* 77 (2012) 29-38; ISSN: 00134686.
72. L. Gao, S. Lv, S. Xing, Facile route to achieve silver@polyaniline nanofibers, *Synthetic Metals* 162 (2012) 948-952; ISSN: 03796779.

- 73.** L.M.A. Monzon, K. Rode, M. Venkatesan, J.M.D. Coey, Electrosynthesis of iron, cobalt, and zinc microcrystals and magnetic enhancement of the oxygen reduction reaction, *Chemistry of Materials* 24 (2012); ISSN: 3878-3885.
- 74.** A. Österholm, T. Lindfors, J. Kauppila, P. Damlin, C. Kvarnström, Electrochemical incorporation of graphene oxide into conducting polymer films, *Electrochimica Acta* 83(2012) 463-470;ISSN: 00134686.
- 75.** H. Cao, D. Yang, S. Zhu, L. Dong, G.Zheng, Preparation, characterization, and electrochemical studies of sulfur-bearing nickel in an ammoniacal electrolyte: The influence of thiourea, *Journal of Solid State Electrochemistry* 16 (2012) 3115-3122. ISSN: 14328488.
- 76.** Y. Zhao, Z. Cai, X. Fu, Editor(s): J.H. Shao, Q.G. Fan, Surface Changes after Silver Formation on a Precoated Surface with Polyaniline for Textile Metallization; Conference: International Conference on Eco-Dyeing, Finishing and Green Chemistry (EDFGC 2011) Location: Zhejiang Sci Tech Univ, Hangzhou, PEOPLES R CHINA Date: JUN 08-12, 2011 Source: ECO-DYEING, FINISHING AND GREEN CHEMISTRY Book Series: Advanced Materials Research Volume: 441 Pages: 304-308 DOI: 10.4028/www.scientific.net/AMR.441.304 Published: 2012
- 77.** F. Ren, F. Jiang, W. Zhou, Y. Du, J. Xu, Application of conducting polymers/metal composites for C1 molecules electrooxidation, *Progress in Chemistry* 24 (2012) 1818-1836. ISSN: 1005281X.
- 78.** DY Shin, TM Lee, Method for fabricating fine conductive patterns using surface modified mask template, US Patent 8,241,712, 2012
- 79.** R. Fangfang, J. Fengxing, Z. Weiqiang, D. Yukou, X. Jingkun, Application of Conducting Polymers/Metal Composites for C1 Molecules Electrooxidation, *Progress in Chemistry*, 2012, Vol. , Issue (9) : 1818-1836; ISSN: 1005-281X.
- S. Ivanov, F. Kurniawan, V. Tsakova, V.M. Mirsky, Automated Layer-by-Layer deposition of polyelectrolytes in flow mode, Macromol. Mater. Engineering, 294 (2009) 441-444.ISSN: 1439-2054**
- 80.** R. Ettelaie, A. Akinshina, S. Maurer, Mixed protein-polysaccharide interfacial layers: Effect of polysaccharide charge distribution, *Soft Matter* 8 (2012) 3582-3597; ISSN: 1744683X.
- V. Lyutov, G. Georgiev, V. Tsakova, Comparative study on the electrochemical synthesis of polyaniline in the presence of mono- and poly(2-acrylamido-2-methyl-1-propanesulfonic) acid, Thin Solid Films, 517(24) (2009) 6681-6688. ISSN: 00406090.**

81. A. A. Nekrasov, O. L. Gribkov, V. F. Ivanov, A. V. Vannikov, The spectroelectrochemical behavior of films of polyaniline interpolymer complexes in the near infrared spectral region, *Russian J. Electrochem.* 48 (2012) 197-204; ISSN: 1023-1935.

U. Lange, S. Ivanov, V. Lyutov, V.Tsakova, V.M. Mirsky, Voltammetric and conductometric behavior of nanocomposites of polyaniline and gold nanoparticles prepared by layer-by-layer technique, *J. Solid State Electrochem.* 14 (2010) 1261-1268; ISSN: 1432-8488.

82. H. Gu, Y. Huang, X. Zhang, Q. Wang, J. Zhu, L. Shao, N. Haldolaarachchige, Z. Guo, Magnetoresistive polyaniline-magnetite nanocomposites with negative dielectrical properties, *Polymer*, 53 (2012) 801-809, ISSN: 00323861.

A. Stoyanova and V. Tsakova, Copper-modified poly(3,4-ethylenedioxothiophene) layers for selective determination of dopamine in the presence of ascorbic acid I. Role of the polymer layer thickness, *J. Solid State Electrochem.*, 14 (2010) 1947-1955.ISSN: 1432-8488.

83. G. Bencsik, C. Janáky, B. Endrdi, C. Visy, Electrocatalytic properties of the polypyrrole/magnetite hybrid modified electrode towards the reduction of hydrogen peroxide in the presence of dissolved oxygen, *Electrochim. Acta* 73 (2012) 53-58; ISSN: 00134686.

84. G.G. Láng, M. Ujvári, F. Bazsó, S. Vesztergom, F. Ujhelyi, In situ monitoring of the electrochemical degradation of polymer films on metals using the bending beam method and impedance spectroscopy, *Electrochim. Acta* 73, (2012) 59-69; ISSN: 00134686.

Svetlozar Ivanov, Ulrich Lange; Vessela Tsakova, Vladimir M. Mirsky, Electrocatalytically active nanocomposite from palladium nanoparticles and polyaniline: oxidation of hydrazine, *Sensors and Actuators B*, 150 (2010) 271–278. ISSN: 0925-4005

85. Y. He, Q. Sheng, B. Liu, J. Zheng, Synthesis of three-dimensional network Fe₃O₄ at gas/liquid interface and its sensing application, *Electrochim. Acta* 66 (2012) 82-87; ISSN: 0013-4686.

86. M. Erginer, E. Sezer, B. Ustamehmetolu, J. Heinze, Voltammetric, electrochemical quartz crystal microbalance and in situ conductance studies of conducting polymers based on ethylenedioxothiophene and N-ethylcarbazole, *Electrochim. Acta* 67 (2012) 181-186; ISSN: 0013-4686.

87. Y. Zhang, M. Zhang, Z. Cai, M. Chen, F. Cheng, A novel electrochemical sensor for formaldehyde based on palladium nanowire arrays electrode in alkaline media, *Electrochim. Acta* 68 (2012) 172-177; ISSN: 0013-4686.

- 88.** Y. He, J. Zheng , Q. Sheng, Double-template electrosynthesis of platinum nanomaterials for sensing application, *Sens. Act. B: Chem.* 166-167(2012) 89-96; ISSN: 0925-4005.
- 89.** Y. He, Q. Sheng, J. Zheng Cobalt nanoparticles as sacrificial templates for the electrodeposition of palladium nanomaterials in an ionic liquid, and its application to electrochemical sensing of hydrazine, *Microchim. Acta* 177 (2012) 479-484; ISSN: 0026-3672.
- 90.** G. Hu, T. Sharifi, F. Nitze, H.R. Barzegar, C.-W.Tai, T. Wågberg, Phase-transfer synthesis of amorphous palladium nanoparticle-functionalized 3D helical carbon nanofibers and its highly catalytic performance towards hydrazine oxidation, *Chem. Phys. Lett.* 543 (2012) 96-100; ISSN: 00092614.
- 91.** R.-R. Jin, L.-F. Li, X.-F. Xu, Y.-H. Lian, F. Zhao, Layered double hydroxide supported palladium nanoparticles for electrocatalytic oxidation of hydrazine, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica* 28 (2012) 1929-1935; ISSN: 10006818.
- 92.** S. Ameen, M.S. Akhtar, H.S. Shin, Hydrazine chemical sensing by modified electrode based on in situ electrochemically synthesized polyaniline/graphene composite thin film, *Sensors and Actuators, B: Chemical*, 173 (2012) 177; ISSN: 09254005.
- 93.** H.C. Budnikov, G.A. Evtugyn, A.V. Porfireva, Electrochemical DNA sensors based on electropolymerized materials (Review), *Talanta* 102 (2012) 137-155. ISSN: 00399140.

Vessela Tsakova, Svetlozar Ivanov, Ulrich Lange, Aneliya Stoyanova, Vladimir Lyutov, and Vladimir M. Mirsky, Electroanalytical applications of nanocomposites from conducting polymers and metallic nanoparticles prepared by layer-by-layer deposition, Pure Appl. Chem., 83 (2011) 345–358. ISSN:0033-4545.

- 94.** K.R. Knowles, C.C. Hanson, A.L. Fogel, B. Warhol, D.A. Rider, Layer-by-layer assembled multilayers of polyethylenimine-stabilized platinum nanoparticles and PEDOT:PSS as anodes for the methanol oxidation reaction, *ACS Applied Materials and Interfaces* 4(2012) 3575-3583; ISSN: 19448244.
- A. Stoyanova, S. Ivanov, V. Tsakova, A. Bund, Au nanoparticle-polyaniline nanocomposite layers obtained through Layer – by-Layer adsorption for the simultaneous determination of dopamine and uric acid, Electrochim. Acta, 56 (2011) 3693-3699.** ISSN: 00134686.
- 95.** L. Yang, S. Liu, Q. Zhang, F. Li, Simultaneous electrochemical determination of dopamine and ascorbic acid using AuNPs@polyaniline core-shell nanocomposites modified electrode, *Talanta* 89 (2012) 136-141, ISSN: 00399140.

- 96.** H. Beitollahi, A. Mohadesi, S.K. Mahani, A. Akbari, Application of a modified carbon nanotube paste electrode for simultaneous determination of epinephrine, uric acid and folic acid, *Analytical Methods* 4 (2012) 1029-1035; ISSN: 1759-9660.
- 97.** Y. Zhou, H. Zhang, H. Xie, B. Chen, L. Zhang, X. Zheng, P. Jia, P. A novel sensor based on LaPO₄ nanowires modified electrode for sensitive simultaneous determination of dopamine and uric acid, *Electrochim. Acta* 75 (2012) 360-365; ISSN: 0013-4686.
- 98.** E.A. Khudaish, K.Y. Al-Ajmi, S.H. Al-Harthi, A.T.A. Al-Hinai, Solid state sensor based polytyramine film modified electrode for the determination of dopamine and ascorbic acid in a moderately acidic solution, *J. Electroanal. Chem.*, 676 (2012), 27-34; ISSN: 0022-0728.
- 99.** K. Ding, H. Yang, Y. Wang, Z. Guo, Gold (Au) huge particles prepared by a simple pyrolysis of AuCl₃ dissolved in various solvents in the presence of MWCNTs, *Int. J. Electrochem. Sci.* 7 (2012) 4663-4672; ISSN: 14523981.
- 100.** V.D. Santos, C.G. De Jesus, M.D. Santos, C.D. Canestraro, V. Zucolotto, S.T. Fujiwara, J.R. Garcia, C.A. Pessoa, K. Wohrnath, Platinum nanoparticles incorporated in silsesquioxane for use in LbL films for the simultaneous detection of dopamine and ascorbic acid, *Journal of Nanoparticle Research* 14 (2012), Article number 1081; ISSN: 13880764.
- 101.** H. Beitollahi, J.-B. Raoof, H. Karimi-Maleh and R. Hosseinzadeh, Selective Voltammetric Determination of Carbidopa in the Presence of Uric Acid Using a Modified Carbon Nanotube paste Electrode, *Anal. Bioanal. Electrochem.*, 4 (2012) 32 – 44; ISSN: 1618-2642.
- V. Lyutov, V. Tsakova, A. Bund, Microgravimetric study on the formation and redox behavior of PAMPSA-doped thin polyaniline layers, *Electrochim. Acta*, 56 (2011) 4803–4811.**
- 102.** J. G. Martínez, J. Arias-Pardilla and T. F. Otero, Simultaneous Smart Actuating-Sensing Devices Based on Conducting Polymers in Smart Actuation and Sensing Systems – Recent Advances and Future Challenges, ed. by InTech, 2012, Giovanni Berselli, Rocco Vertechy and Gabriele Vassura, pp 283-310, ISBN 978-953-51-0798-9.
- 103.** G. Inzelt, Conducting polymers: A new era in electrochemistry, Second edition, Springer Verlag, Berlin-Heidelberg, 2012, p. 139; ISBN: 978-3-642-27620-0.

N. Jordanov, L. Wondraczek, I. Gutzow, Thermodynamic properties of amorphous solids: The electrochemical approach. J. Non-Cryst. Solids, 358, 10 (2012) 1239-1256.
ISSN: 0022-3093.

- 104.** F. Guo, H. Zheng, J. Qin, X. Qin, T. Lv, Y. Jia, R. Xu, X. Tian, Medium-range order and physical properties of Cu-20at.% Sb melts, *J. Non-Cryst. Solids* 358, 23 (2012) 3327-3331. ISSN: 0022-3093.
- T. Zapryanova, N. Jordanov, A. Milchev, Electrochemical growth of single copper crystals on glassy carbon and tungsten substrates. J. Electroanal. Chem., 612, 1 (2008) 47-52. ISSN: 0022-0728.**
- 105.** J. Y. Zheng, A. P. Jadhav, G. Song, C. W. Kim, Y. S. Kang, Cu and Cu₂O films with semi-spherical particles grown by electrochemical deposition, *Thin Solid Films*, 524 (2012) 50-56. ISSN: 0040-6090.
- 106.** J. Aromaa, A. Kekki, A. Stefanova, O. Forsén, Copper nucleation and growth patterns on stainless steel cathode blanks in copper electrorefining, *J. Solid State Electrochem.* 16, 11 (2012) 3529-3537. ISSN: 1432-8488.
- 107.** M. Rezaei, S. H. Tabaian, D. F. Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, *J. Electroanal. Chem.* 687 (2012) 95-101. ISSN: 0022-0728.
- 108.** D. E. García-Rodríguez, L. H. Mendoza-Huizar, C. H. Ríos-Reyes, M. A. Alatorre-Ordaz, Copper electrodeposition on glassy carbon and highly oriented pyrolytic graphite substrates from perchlorate solutions, *Química Nova*, 35, 4 (2012) 699-704. ISSN: 0100-4042.
- 109.** O. V. Grishenkova, O. L. Semerikova, V. A. Isaev, Growth of single silver crystals during electrodeposition from a melt in the presence of an excess background electrolyte, *Russian Metallurgy (Metally)*, 2012, 2 (2012) 161-165. ISSN: 0036-0295.
- N. Jordanov, R. Zellner, Investigations of the hygroscopic properties of ammonium sulfate and mixed ammonium sulfate and glutaric acid micro droplets by means of optical levitation and raman spectroscopy, Phys. Chem. Chem. Phys., 8, 23 (2006) 2759-2764. ISSN: 1463-9076.**
- 110.** X. Guo, S.-H. Tan, Z.-J. Shang, Y.-C. Guo, Y.-H. Zhang, Confocal raman spectroscopy studies on the interactions between NH₄NO₃ and H₂O in supersaturated nh₄no₃ droplets, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, 28, 4 (2012) 766-772. ISSN: 1872-1508.

M. Ilieva, D. Dimova-Malinovska, B. Ranquelov and I. Markov “High temperature electrodeposition of CdS thin films on conductive glasses” J. Physics: Condens. Matter 11(49) (1999) 10025-10031, ISSN 0953-8984

111. S. Mageswari, L. Dhivy, B. Palanivel, R. Murugan, Structural, morphological and optical properties of Na and K dual doped CdS thin film, Journal of Alloys and Compounds, 545 (2012). 41–45, ISSN: 0925-8388.
- A. Shoumkova, Physico-chemical characterization and magnetic separation of coal fly ash from “Varna”, “Bobov dol” and ”Maritza-Istok I” power plants, Bulgaria, Part I, Journal of the University of Chemical Technology and Metallurgy, 41 (2), (2006), pp. 175-180, ISSN: 1311-7629.
112. Bunch, T., Hermes, R., Moore, A., Kennett, D., Weaver, J., Wittke, J., DeCarli, P., Bischoff, J., Hillman, G., Howard, G., Kimbel, D., Kletetschka, G., Lipo, C., Sakai, S., Revay, Z., West, A., Firestone, R., Kennett, J., PNAS Plus: Very high-temperature impact melt products as evidence for cosmic airbursts and impacts 12,900 years ago, Proceedings of the National Academy of Sciences of the United States of America, 109 (28), (2012) E1903-E1912; published ahead of print June 18, 2012, doi:10.1073/pnas.1204453109 (in Supplemented information)
- A. Shoumkova, Physico-chemical characterization and magnetic separation of coal fly ash from “Varna”, “Bobov dol” and ”Maritza-Istok I” power plants, Bulgaria, Part II- Magnetic separation, Journal of the University of Chemical Technology and Metallurgy, 41 (2), (2006), pp. 181-186, ISSN: 1311-7629.
113. S. Boycheva, Sulfur dioxide reactivity potential of different types of coal fly ash, Environmental Science: An Indian Journal, 7 (5), (2012), ISSN: 0974 7451.
114. Manskinen, K., Nurmesniemi, H., Pöykiö, R., Occupational risk evaluation of using bottom ash and fly ash as a construction material, Journal of Hazardous, Toxic, and Radioactive Waste, 16 (1), (2012), 79-87, ISSN: 2153-5493, eISSN: 2153-5515.
- A. Shoumkova, T. Tsacheva, V. Stoyanova, I. Grancharov, M. Marinov M., Physico-chemical and morphological properties of coal fly ash from “Bobovdol” power plant, Bulgaria, Scientific Articles XIII International Symposium Ecology 2004, Bourgas, Part I, pp. 324-343, ISBN: 954 9368 076
115. Boycheva, S., Sulfur dioxide reactivity potential of different types of coal fly ash, Environmental Science: An Indian Journal, 7 (5), (2012), ISSN: 0974 7451.
- A. Shoumkova, V. Stoyanova, Trace elements in fly ashes from “Varna”, “Bobov dol”, “Maritzaeast 1”, “Maritza-3”, “Republika” and “Rousse-east” power plants in Bulgaria, Proceedings of the IVth International Scientific Conference – Modern Management of

mine Producing, Geology and Environmental Protection, Albena, Bulgaria, June 12- 16 (2006), Part II, pp. 348-357, ISSN: 1314-2704.

- 116.** Boycheva, S., Environmental pollution control of Pb(II)-ions in thermal power plant byproducts by selective chemical sensor, Ecological Engineering and Environmental Protection, 2, (2012), pp. 38-43, ISSN: 1311-8668.
- 117.** Boycheva, S., Sulfur dioxide reactivity potential of different types of coal fly ash, Environmental Science: An Indian Journal, 7 (5), (2012), ISSN: 0974 7451.

V. A. Shoumkova, T. Tsacheva, V. Stoyanova, S. Shumkov, I. Grancharov, M. Marinov; Proceedings of the Third International Conference on Ecological Chemistry, Chisinau, Republik of Moldova 20-21 May (2005), pp. 560-570, ISBN: 9975-621341.

- 118.** Boycheva, S., Environmental pollution control of Pb(II)-ions in thermal power plant byproducts by selective chemical sensor, Ecological Engineering and Environmental Protection, 2, (2012), pp. 38-43, ISSN: 1311-8668.

A. Shoumkova, Zeolites for water and wastewater treatment: An overview, 2011 Research Bulletin of the Australian Institute of High Energetic Materials, Special Issue on Global Fresh Water Shortage, 2, (2011), pp. 10-70, ISBN: 978-0-9806811-1-6.

- 119.** Kolaković, S., Stefanović, D., Milićević, D., Trajković, S., Milenković, S., Kolaković, S., Andelković, L., Effects of reactive filters based on modified zeolite in dairy industry wastewater treatment process, Chemical Industry and Chemical Engineering Quarterly, OnLine-First (2012), ISSN 1451-9372 (Print) ISSN 2217-7434 (Online)
- 120.** Magdalena, C., Fungaro, D., Resíduos sólidos provenientes da queima do carvão de usina termelétrica, Educacao Ambiental em ACAO, 11 (41), (2012), available at: <http://www.revistaea.org/artigo.php?idartigo=1338&class=02>, ISSN 1678-0701.

S. Shoumkov, Z. Dimitrov, A. Shoumkova, High Intensity Magnetic Treatment of Kaolin Clay and Porcelain Slurry, Proceedings of the Second Balkan Conference on Glass Science and Technology, 14 th Conference on Glass and Ceramics, Ceramics, 2, (2005), pp.181-187.

- 121.** Soenara, T., Ardha, N, Damayanti, R., Eliminasi oksida besi dari kaolin negreg dengan metode pemisahan cairan-cairan (Iron Oxide Removal from Kaolin of Nagreg by Liquid-Liquid Separation Method), Jurnal Teknology Mineral dan Batubara, 8 (1), (2012), pp. 36-44, ISSN:1979-6560.

A. Shoumkova, Magnetic separation of coal fly ash from Bulgarian power plants, Waste Management and Research, 29 (10), (2011), pp. 1078 – 1089, ISSN: 0734-242X.

- 122.** Voldman, G., Genge, M., Albanesi, G., Barnes, C., Ortega, G., 'Cosmic spherules from the Ordovician of Argentina, Geological Journal, Article first published

online: 1 MAP 2012, DOI: 10.1002/gj.2418, ISSN: 1099-1034.

A. Shoumkova, V. Stoyanova, Physico-chemical characterization of pyrite cinders, Proceeding of the X Anniversary International Geoconference – Surveying Geology and Mining Ecology Management, Albena, Bulgaria, June 20-26, (2010), Volume 2, pp. 701-708, ISSN: 1314-2704.

123. Sola O., Atis C., The effects of pyrite ash on the compressive strength properties of briquettes, KSCE Journal of Civil Engineering, 16(7), (2012), pp.1225-1229, ISSN: 1226-7988 (print version) ISSN: 1976-3808 (electronic version).

D. Nenow, V. Stoyanova, Appearance of non-singular surfaces on vapour-grown ice crystals, Journal of Crystal Growth, 46, (1979), pp.779-782, ISSN: 0022-0248.

124. K. Ozawa, H. Nagahara, M. Morioka, N. Matsumoto, I. D. Hutcheon, T. Noguchi, H. Kagi, Kinetics of evaporation of forsterite in vacuum, American Mineralogist, 97 (1), (2012). pp. 80-99, ISSN: 0003-004X.

V. Stoyanova, D. Kashchiev, T. Kupenova, Freezing of water droplets seeded with atmospheric aerosols and ice nucleation activity of the aerosols, Journal of Aerosol Science 25 (5), (1994), pp. 867-877, ISSN: 0021-8502

125. B. J. Murray, D. O'Sullivan, J. D. Atkinson, et al., Ice nucleation by particles immersed in supercooled cloud droplets, Chemical Society Reviews 41 (19), (2012), pp. 6519-6554, ISSN (printed): 0306-0012. ISSN (electronic): 1460-4744.

126. S. L. Broadley, B. J. Murray, R. J. Herbert, J. D. Atkinson, S. Dobbie, T. L. Malkin, E. Condiffe, L. Neve, Immersion mode heterogeneous ice nucleation by an illite rich powder representative of atmospheric mineral dust, Atmospheric Chemistry and Physics, 12 (1), (2012), pp. 287-307, ISSN: 1680-7316.

127. A. Reinhardt, J. P. K. Doye, E. G. Noya, C. Vega, “Local order parameters for use in driving homogeneous ice nucleation with all-atom models of water”, J. Chem. Phys. 137, 194504 (2012), ISSN (printed): 0021-9606. ISSN (electronic): 1089-7690.

E. P. Trifonova, I. Y. Yanchev, V. B. Stoyanova, S. Mandalidis, K. Kambas, A. N. Anagnostopoulos, Growth and characterization of SnS₂, Materials Research Bulletin, 31 (1996), pp. 919-924, ISSN: 0025-5408.

128. Y. Lin, X. Wen, L. Wang, G. Yue, D. Peng, Structure and optical properties of SnS nanowire arrays prepared with two-step method (Conference Paper), Advanced Materials Research 476-478, (2012), pp. 1519-1522, ISSN: 1022-6680.

V. B. Stoyanova, T. N. Kupenova, Ts. I. Tsacheva, M. V. Marinov, B. S. Ranguelov, I. S. Georgieva, Atmospheric dust aerosols in Sofia – electron microscope characterization

and ice nucleation properties, Journal of International Research Publications, Science Invest Ltd - branch Bourgas, Bulgaria, 2001/02, Issue 2, no.6_2002, ISSN 1311-8978.

- 129.** M. A. K. Shahid, K. Hussain, M. S. Awan, Seasonal Variations and Characterization of Solid Aerosols Related to Faisalabad (Pakistan) Environment, Journal of Basic & Applied Sciences, 8, (2012), pp. 572-580, ISSN (online): 1927-5129 , ISSN (print): 1814-8085.

J. Fisak, V. Stoyanova, P. Chaloupecky, D. Rezacova,Ts. Tsacheva, T. Kupenova, M. Marinov, Soluble and Insoluble Pollutants in Fog and Rime Water Samples, Soil and Water Ressearch, 4 (Special Issue 2), (2009): pp. S123–S130, ISSN 1801-5395.

- 130.** L. Bohdalkova, M. Novak, P. Voldrichova, E. Prechova, F. Veselovsky, L. Erbanova, M. Krachler, A. Komarek, J. Mikova, Atmospheric deposition of beryllium in Central Europe: Comparison of soluble and insoluble fractions in rime and snow across a pollution gradient, Science of The Total Environment, 439 (15), (2012), pp. 26–34, ISSN: 0048-9697

- 131.** A. Mallick, E.-M. Schön, T. Panda, K. Sreenivas, D. Díaz Díaz, R. Banerjee, Fine-tuning the balance between crystallization and gelation and enhancement of CO₂ uptake on functionalized calcium based MOFs and metallogels, Journal of Material Chemistry, 22, (2012), pp. 14951-14963, ISSN (printed): 0959-9428. ISSN (electronic): 1364-5501

- 132.** Romero, M.R., Baruzzi, A.M., Garay, F., Mathematical modeling and experimental results of a sandwich-type amperometric biosensor, Sensors and Actuators B: Chemical, 162 (1), (2012) pp. 284 - 291, ISSN: 0925-4005

- 133.** M.R. Romero, A.M. Baruzzi, F. Garay, How low does the oxygen concentration go within a sandwich-type amperometric biosensor?, Sensors and Actuators B: Chemical 174, (2012), pp. 279 – 284, ISSN: 0925-4005.

S. Stoyanov, V.Tonchev, Properties and dynamic interaction of step density waves at a crystal surface during electromigration affected sublimation, Physical Review B, 58 (3), (1998), pp. 1590-1600, ISSN 1098-0121.

- 134.** Persichetti, L., Capasso, A., Sgarlata, A., Fanfoni, M., Motta, N., Balzarotti, A., in: Lecture Notes in Nanoscale Science and Technology, 12, (2012), SELF-ASSEMBLY OF NANOSTRUCTURES, The INFN Lectures, Vol. III, Stefano Bellucci (ed.), pp. 201-263, ISBN: 978-1-4614-0741-6 (print version), ISBN: 978-1-4614-0742-3 (electronic version)

- 135.** 136. Zaluska-Kotur, M.A., Krzyzewski, F., Step bunching process induced by the flow of steps at the sublimated crystal surface, Journal of Applied Physics, 111, (2012), 114311, ISSN 0021-8979 (print version), ISSN: 1089-7550 (electronic version).

- 136. Akutsu, N., Sticky steps inhibit step motions near equilibrium, *Physical Review E*, 86, (2012), 061604, ISSN 1539-3755.
- 137. Inaba, M. and Sato, M., Formation of Step Bunches Induced by Flow in Solution, *Journal of the Physical Society of Japan*, 81, (2012) 064601, ISSN: 1347-4073 (electronic version), ISSN: 0031-9015 (print version).
- 138. Эрвье, Ю., Элементарные процессы на ступенях в кинетике эпитаксиального роста и легирования при сильных отклонениях от равновесия, **ДИССЕРТАЦИЯ** на соискание ученой степени доктора физико-математических наук, Национальный исследовательский Томский государственный университет, Томск, 2012.

A. Pimpinelli, V. Tonchev, A. Videcoq, M. Vladimirova, Scaling and Universality of Selforganized Patterns on Unstable Vicinal Surfaces, Physical Review Letters, 88 (20), (2002), 206103, ISSN 0031-9007.

- 139. Ivanov, M., Krug, J., Non-conserved dynamics of steps on vicinal surfaces during electromigration-induced step bunching, *European Physical Journal B*, 85, (2012) 72. ISSN: 1434-6028 (print version), ISSN: 1434-6036 (electronic version)
- 140. Zaluska-Kotur, M.A., Krzyzewski, F., Step bunching process induced by the flow of steps at the sublimated crystal surface, *Journal of Applied Physics*, 111, (2012), 114311, ISSN 0021-8979 (print version), ISSN: 1089-7550 (electronic version).
- 141. Ivanov, M., Dynamics of Steps on Vicinal Surfaces, **Inaugural - Dissertation zur Erlangung des Doktorgrades der Mathematisch-Naturwissenschaftlichen Fakultät**at der Universität zu Köln, 2012.
- 142. Akutsu, N., Sticky steps inhibit step motions near equilibrium, *Physical Review E*, 86, (2012), 061604, ISSN 1539-3755.
- 143. Gueudre, T., Doussal, P., Rosso, A., Henry, A., Calabrese, P., Short time growth of a KPZ interface with initial conditions, *Physical Review E*, 86, (2012) 041151, ISSN 1539-3755.

J.Krug, V.Tonchev, S.Stoyanov, A.Pimpinelli, Scaling properties of step bunches induced by sublimation and related mechanisms, Physical Review B, 71, (2005) 045412, ISSN: 1098-0121.

- 144. Lin C.-F, Hammouda A.B.H., Kan H.-C., Bartelt N. C., Phaneuf R. J., Directing self-assembly of nanostructures kinetically: Patterning and the Ehrlich-Schwoebel barrier, *Physical Review B*, 85, (2012) 085421, ISSN: 1098-0121
- 145. Zaluska-Kotur, M.A., Krzyzewski, F., Step bunching process induced by the flow of steps at the sublimated crystal surface, *Journal of Applied Physics*, 111, (2012), 114311, ISSN 0021-8979 (print version), ISSN: 1089-7550 (electronic version).

- 146. Akutsu, N., Sticky steps inhibit step motions near equilibrium, Physical Review E, 86, (2012), 061604, ISSN 1539-3755.
- 147. Lin C.-F, Directed self-assembly of nanostructures and the observations of self-limiting growth of mounds on patterned crystal surface during epitaxial growth, Dissertation, University of Maryland, College Park, 2012. ISBN: 9781267720481, No. 3543297 in ProQuest.

H. Omi, Y.Homma, V. Tonchev, A. Pimpinelli, New Types of Unstable Step-Flow Growth on Si(111)-(7x7) during Molecular Beam Epitaxy: Scaling and Universality, Physical Review Letters, 95, (2005), 216101, ISSN 1079-7114 (electronic version), 0031-9007 (print version).

- 148. Zaluska-Kotur, M.A., Krzyzewski, F., Step bunching process induced by the flow of steps at the sublimated crystal surface, Journal of Applied Physics, 111, (2012), 114311, ISSN 0021-8979 (print version), ISSN: 1089-7550 (electronic version).
- 149. Akutsu, N., Sticky steps inhibit step motions near equilibrium, Physical Review E, 86, (2012), 061604, ISSN 1539-3755.
- 150. V. Tonchev, B. Rangelov, H. Omi, A. Pimpinelli, Scaling and universality in models of step bunching: the “C+-C-” model, European Physical Journal B 73, (2010) 539-546, ISSN: 1434-6028.
- 151. Zaluska-Kotur, M.A., Krzyzewski, F., Step bunching process induced by the flow of steps at the sublimated crystal surface, Journal of Applied Physics, 111, (2012), 114311, ISSN 0021-8979 (print version), ISSN: 1089-7550 (electronic version).
- 152. Akutsu, N., Sticky steps inhibit step motions near equilibrium, Physical Review E, 86, (2012), 061604, ISSN 1539-3755.
- 153. Akutsu, N., Sticky steps inhibit step motions near equilibrium, Physical Review E, 86, (2012), 061604, ISSN 1539-3755.

A. Penkova, O. Gliko, I. Dimitrov, F. Hodjaoglu, Chr. Nanev, and P. Vekilov, Enhancement and suppression of protein crystal nucleation due to electrically-driven convection, Journal of Crystal Growth, 275 (1-2), (2005), e1527-e1532, ISSN: 0022-0248

- 154. Tomita, Y., Koizumi, H., Uda, S., Fujiwara, K., Nozawa, J., Control of Gibbs free energy relationship between hen egg white lysozyme polymorphs under application of an external alternating current electric field, Journal of Applied Crystallography, 45 (2), (2012), pp. 207-212, Online ISSN: 1600-5767
- 155. Koizumi, H., Tomita, Y., Uda, S., Fujiwara, K., Nozawa, J., Nucleation rate enhancement of porcine insulin by application of an external AC electric field, Journal of Crystal Growth, 352 (1), (2012), pp. 155-157, ISSN: 0022-0248

C. Nanev, F. Hodzhaoglu, I. Dimitrov, Kinetics of insulin crystal nucleation, energy barrier and nucleus size, Crystal Growth and Design, 11 (1), (2011), pp. 196-202, ISSN: 1528-7483

- 156.** Manuel ILDEFONSO, Développement d'un outil microfluidique polyvalent pour l'étude de la cristallisation : application à la nucléation de principes actifs pharmaceutiques, PhD Thesis, 2012
- 157.** Diana da Oliveira Ribeiro, Using gold nanoparticles in protein crystallography: studies in crystal growth and derivatization, Dissertation for the Master Degree, September 2012.
- 158.** Sear, P., The non-classical nucleation of crystals: microscopic mechanisms and applications to molecular crystals, ace and calcium carbonate, International Materials Reviews, 57 (6), (2012), pp. 328-356, ISSN: 0950-6608.

J.Bartels, U.Lembke, R.Pascova, J. Schmelzer, I.Gutzow, Evolution of cluster size distribution in nucleation and growth processes, Journal of Non-Crystalline Solids, 136 (3), (1991), pp.181 – 197, ISSN: 00223093.

- 159.** Farah, F. Hosni, A. Mejri, B. Boizot, A.H. Hamzaoui, P47 – Effect of gamma irradiation and thermal annealing on the nanosize particles formation in silver ion-exchanged silicate glass, Proceedings Book, Nanoscale Science and Technology (NS&T'12) Edited by Prof. Dr. Michael J. Schöning, Prof. Dr. Adnane Abdelghani, Tunisia 17-19 March, 2012, pp. 118.

J. Schmelzer, R.Pascova, J.Moeller, I.Gutzow, Surface-induced devitrification of glasses: the influence of elastic strains, Journal of Non-Crystalline Solids, 162 (1-2), (1993), pp. 26 - 39 ISSN: 0022-3093

- 160.** Reza Dousti, M., Sahar, M.R., Ghoshal, S.K., Amjad, R.J., Arifin, R., Plasmonic enhanced luminescence in Er³⁺:Ag co-doped tellurite glass Journal of Molecular Structure, 1033, (2012), pp. 79-83, ISSN 0022-2860
- 161.** Wisniewski, W., Otto, K., Rüssel, C., Oriented nucleation of diopside crystals in glass, Crystal Growth and Design, 12 (10), (2012), pp. 5035-5041, ISSN: 1528-7483, E-ISSN:1528-7505
- 162.** Caroli, C., Lemaître, A, Ultrafast spherulitic crystal growth as a stress-induced phenomenon specific of fragile glass-formers, Journal of Chemical Physics, 137 (11) , (2012), art. no. 114506, ISSN: 0021-9606, E-ISSN:1089-7690
- 163.** Sun, Y., Zhu, L., Wu, T., Cai, T., Gunn, E.M., Yu, L., Stability of amorphous pharmaceutical solids: Crystal growth mechanisms and effect of polymer additives, AAPS Journal 14 (3), (2012), pp. 380-388, ISSN:1550-7416

- 164.** Ide, K., Nomura, K., Hiramatsu, H., Kamiya, T., Hosono, H., Structural relaxation in amorphous oxide semiconductor, a-In-Ga-Zn-O, Journal of Applied Physics 111 (7), (2012), art. no. 073513, ISSN: 0021-8979, E-ISSN:1089-7550
- 165.** Chattoraj, S., Bhugra, C., Telang, C., Zhong, L., Wang, Z., Sun, C.C, Origin of two modes of non-isothermal crystallization of glasses produced by milling, Pharmaceutical Research, 29 (4), (2012), pp. 1020-1032, ISSN: 0724-8741, E-ISSN: 1573-904X
- 166.** R. Mueller, S. Reinsch, Viscous-Phase Silicate Processing, in: Ceramics and Composites Processing Methods, Eds. N.P. Bansal, A. R. Boccaccini, Wiley, 2012, Ch. 3, p. 75 -144, ISBN 978-0-470-55344-2

J.Schmelzer, J.Moeller, I.Gutzow, R.Pascova, R.Mueller, W.Pannhorst, Surface energy and structure effects on surface crystallization, Journal of Non-Crystalline Solids, 183 (3), (1995), pp. 215-233, ISSN: 00223093

- 167.** Holand, W. Beall, G. H., Glass Ceramic Technology, 2-nd Edition John Wiley & Sons, 2012, pp. 400, ISBN:978-0-470-48787
- 168.** Wisniewski, W., Otto, K., Rüssel, C., Oriented nucleation of diopside crystals in glass, Crystal Growth and Design, 12 (10), (2012), pp. 5035-5041, ISSN: 1528-7483, E-ISSN:1528-7505
- 169.** Wurm, A., Zhuravlev, E., Eckstein, K., Jehnichen, D., Pospiech, D., Androsch, R., Wunderlich, B., Schick, C., Crystallization and homogeneous nucleation kinetics of poly(ϵ - caprolactone) (PCL) with different molar masses, Macromolecules, 45 (9), (2012), pp. 3816-3828, ISSN: 1528-7483, E-ISSN: 1528-7505
- 170.** Wisniewski, W., Schröter, B., Zscheckel, T., Rüssel, C, A global glassy layer on BaAl₂B₂O₇ crystals formed during surface crystallization of BaO.Al₂O₃.B₂O₃ glass, Crystal Growth and Design, 12 (3), (2012), pp. 1586-1592, ISSN: 1528-7483, E-ISSN:1528-7505

I. Penkov, R. Pascova, I. Drangajova, A new glass ceramic material with high resistance to molten aluminium, Journal of Materials Science Letters, 16 (19), (1997), pp. 1544-1546, ISSN:0261-8028

- 171.** Adabifiroozjaei, E., Koshy, P., Sorrell, C.C., Effects of different boron compounds on the corrosion resistance of andalusite-based low-cement castables in contact with molten Al alloy, Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 43 (1), (2012), pp. 5-13, ISSN:1073-5615

I. Gutzow, R. Pascova, A. Karamanov, J. Schmelzer, The kinetics of surface induced sinter crystallization and the formation of glass-ceramic materials, Journal of Material Science, 33 (21), (1998), pp. 5265 - 5273, ISSN:0022-2461, E-ISSN: 1573-4803

172. He, F., Liu, J., Cheng, J., Study on sintered glass ceramics from Nb-Ta tailings, Glass Physics and Chemistry, 38 (1), (2012), pp. 109-115, ISSN:1087-6596, E-ISSN:1608-313X.
173. Rodriguez, M., Cardenas, A., Galain, I., Castiglioni, E., Castiglioni, I., Fornaro, L., Doped and undoped lead borate glass-ceramics as thermoluminescent detectors, 2012, IEEE Nuclear Science Symposium Conference, art. no. 6154487, pp. 237-241., ISSN:1095-7863
174. Delaizir, G., Gueguen, Y., Hubert, M., Zhang, X.H. Monnier, J., Godart, C. Calvez, L. Investigation of the mechanisms involved in the sintering of chalcogenide glasses and the preparation of glass-ceramics by spark plasma sintering, Journal of the American Ceramic Society, 95 (7), (2012), pp. 2211-221, ISSN:0002-7820
175. R. Mueller, S. Reinsch, Viscous-Phase Silicate Processing, in: Ceramics and Composites Processing Methods, Eds. N.P. Bansal, A. R. Boccaccini, Wiley, 2012, Ch. 3, pp. 75 -144, ISBN: 978-0-470-55344-2
176. Delaizir, G. Calvez, L., A Novel Approach to Develop Chalcogenide Glasses and Glass-Ceramics, by Pulsed Current Electrical Sintering (PCES) in: Sintering of Ceramics - New Emerging Techniques Ed. A. Lakshmanan. InTech, Janeza Trdine 9, 51000 Rijeka, Croatia, Ch 13, 2012, pp. 281-306, ISBN 978-953-51-0017-1

I. Gutzow, R. Pascova, J. W. P. Schmelzer, Glass transition behavior: A generic phenomenological approach, International Journal of Applied Glass Science, 1 (3), (2010), pp.221 – 236, Online ISSN: 2041-1294

177. Kozmidis-Petrovic, A., Šesták, A. J., Forty Years of the Turnbull Reduced Glass Transition Temperature and Hrubý Glass-Forming Coefficient and Their Current Perception, in: Thermal Analysis of Micro, Nano- and Non-Crystalline Materials, Hot Topics in Thermal Analysis and Calorimetry, Eds. Šesták, A. J., Simon, P., Springer 2012, Volume 9, pp.75-97, ISBN 978-90-481-3150-1
178. Kozmidis-Petrovic, A., Šesták, Forty years of the Hrubý glass-forming coefficient via DTA when comparing other criteria in relation to the glass stability and vitrification ability, Journal of Thermal Analysis and Calorimetry, 110 (2), (2012), pp.997- 1004, ISSN:1388-6150 (Print), 1572-8943 (Online)

A.Karamanov, I. Georgieva; R. Pascova; I. Avramov, Pore formation in glass-ceramics: Influence of the stress energy distribution, Journal Non-Crystalline Solids 356 (2) (2010) pp. 117–119; ISSN: 00223093

- 179.** Wisniewski, W., Schröter, B., Scheckel, T., Rüssel, C., A global glassy layer on BaAl₂B₂O₇ crystals formed during surface crystallization of BaO.Al₂O₃.B₂O₃ glass, Crystal Growth and Design, 12 (3), (2012), pp.1586-1592, ISSN: 1528-7483, E-ISSN: 1528-7505
- 180.** Wisniewski, W., Otto, K., Rüssel, C., Oriented nucleation of diopside crystals in glass, Crystal Growth and Design, 12 (10), (2012), pp. 5035 -5041 ISSN: 1528-7483, E-ISSN: 1528-7505.

A. Karamanov , I. Avramov., L. Arrizza , R. Pascova , I. Gutzow., Variation of Avrami parameter during non-isothermal surface crystallization of glass powders with different sizes, Journal Non-Crystalline Solids, 358 (12-13), (2012), pp. 1486-1490, ISSN: 00223093

- 181.** Illekova E., Comments on Kinetics of non-isothermal crystallization and glass transition phenomena in Ga10Se87Pb3 and Ga10Se 84Pb6 chalcogenide glasses by DSC , Journal Non-Crystalline Solids, 358 (21), (2012), pp. 2931 – 2934, ISSN: 00223093

K. Christova, S. Alexandrova, A. Abramov, E. Valcheva, B. Rangelov, C. Longeaud, S. Reynolds, P Roca i Cabarrocas, Structure - related strain and stress in thin hydrogenated microcrystalline silicon films, Journal of Physics: Conference Series 253 1(2010) 012056, ISSN: 1742-6588

- 182.** Nikolenko, A.S., Sopinskyy, M.V., Strelchuk, V.V., Veligura, L.I., Gomonovych, V.V., Raman study of Si nanoparticles formation in the annealed SiO x and SiO x:Er,F films on sapphire substrate, Journal of Optoelectronics and Advanced Materials 14 (1-2), (2012) , pp. 120-124, ISSN: 1454-4164.

P. Paunovic, O. Popovski, E. Fidancevska, B. Rangelov, D. Gogovska, A. Dimitrov, S. Hadzi Jordanov, Co-Magneli phases electrocatalysts for hydrogen/oxygen evolution, Int. Journal of Hydrogen Energy, 35 (2010) pp.10073-10080, ISSN: 0360-3199

- 183.** Stoyanova, A., Borisov, G., Lefterova, E., Slavcheva, E., Oxygen evolution on Ebonex-supported Pt-based binary compounds in PEM water electrolysis, International Journal of Hydrogen Energy, 37 (21), (2012), pp. 16515-16521, ISSN: 0360-3199.

- 184.** Inglis, J.L., MacLean, B.J., Pryce, M.T., Vos, J.G., Electrocatalytic pathways towards sustainable fuel production from water and CO₂, Coordination Chemistry Reviews, 256 (21-22), (2012), pp. 2571-2600, ISSN: 0010-8545.

- 185.** Cruz, J.C., Rivas, S., Beltran, D., Meas, Y., Ornelas, R., Osorio-Monreal, G., Ortiz-Frade, L., Ledesma-García, J., Arriaga, L.G. Synthesis and evaluation of ATO as a support for Pt-IrO₂ in a unitized regenerative fuel cell, International Journal of Hydrogen Energy, 37 (18), (2012), pp. 13522-13528, ISSN: 0360-3199.

186. Kitada, A., Hasegawa, G., Kobayashi, Y., Kanamori, K., Nakanishi, K., Kageyama, H. Selective preparation of macroporous monoliths of conductive titanium oxides $Ti_{n}O_{2n-1}$ ($n = 2, 3, 4, 6$), *Journal of the American Chemical Society*, 134 (26), (2012), pp. 10894-10898, ISSN: 0002-7863.
187. Phillips, R., Hansen, P., Eisenbraun, E., Atomic layer deposition fabricated substoichiometric TiO_x nanorods as fuel cell catalyst supports, *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, 30 (1), (2012), 01A125, ISSN: 0734-2101.

B. Rangelov, S. Stoyanov, Instability of vicinal crystal surfaces with transparent steps: Transient kinetics and non-local electromigration, Surface Science 603 (2009) pp. 2907-2911, ISSN: 0039-6028

188. Ivanov, M., Krug, J., Non-conserved dynamics of steps on vicinal surfaces during electromigration-induced step bunching, *European Physical Journal B*, 85 (2), (2012), 2012397, ISSN: 1434-6028.

B. Rangelov, S. Stoyanov, Instabilities at vicinal crystal surfaces: competition between the electromigration of the adatoms and the kinetic memory effect, Phys. Rev. B 77, (2008) 205406, ISSN: 1098-0121

189. Zauska-Kotur, M.A., Krzyewski, F., Step bunching process induced by the flow of steps at the sublimated crystal surface, *Journal of Applied Physics*, 111 (11), (2012), 114311, ISSN: 0021-8979.
190. Ivanov, M., Krug, J., Non-conserved dynamics of steps on vicinal surfaces during electromigration-induced step bunching, *European Physical Journal B*, 85 (2), (2012), 2012397, ISSN: 1434-6028.

M. Michailov, “Classification Order of Surface-Confining Intermixing at Epitaxial Interface” in: Nanophenomena at Surfaces: Fundamentals of Exotic Condensed Matter Properties, Springer Series in Surface Sciences 47, M. Michailov (Editor) Springer Heidelberg London New York (2011) DOI 10.1007/978-3-642-16510-8, ISSN 0931-5195, ISBN 978-3-642-16509-2

191. Wang, Y.; Ruterana, P.; Chen, J.; et al, “Strain relief and growth optimization of GaSb on GaP by molecular beam epitaxy”, *Journal of Physics: Condensed matter*, 24, 33, Article: 335802 2012, DOI: 10.1088/0953-8984/24/33/335802, ISSN 0953-8984
192. D. Klisurski, *Journal of Bulgarian Academy of Sciences*, 1, p. 92, 2012, ISSN 0007-3989

I. Avramov and M. Michailov, "Specific heat of Nanocrystals", Journal of Physics C: Condensed Matter, 20, p. 295224 (2008), ISSN 0953-8984

193. Brune H., in: Surface and Interface Science, Vol. 2, Properties of Elemental Surfaces, „Thermal dynamics at surfaces“, Chapter 5.2, Ed. Klaus Wandelt, WILEY Verlag – VCH, Berlin, (2012), ISBN 978-3-527-41156-6

Ch. Tegenkamp, M. Michailov, J. Wollschlaeger and H. Pfuer, "Growth and Surface Alloy Formation of Mg on Ag(100)", Appl. Surf. Sci. 151, 40 (1999), ISSN: 0169-4332

194. T. Jaouen, G. Jézéquel, G. Delhaye, B. Lépine, P. Turban, and P. Schieffer, „Tuning the Schottky barrier height at MgO/metal interface“ Appl. Phys. Lett. 100, 022103 (2012); doi:10.1063/1.3675859, ISSN 0003-6951
195. F. Özuturk, D. Kacar, Niğde Üniversitesi Mühendislik Bilimleri Dergisi, Cilt 1 Sayı 1, (2012), 12-20, ISSN 1307-9832

S. Stoyanov, M. Michailov, "Non-steady State Effects in MBE - Oscillation of the Step Density at the Crystal Surface", Surface Science 202, p. 109-124, (1988), ISSN: 0039-6028

196. A. I. Lupulescu and J. D. Rimer, "Tailoring Silicalite-1 Crystal Morphology with Molecular Modifiers", Angewandte Chemie - International Edition 51 (14) , pp. 3345-3349 (2012). doi: 10.1002/anie.201107725, Copyright © 2012 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, ISSN: 1521-3773

G. Meyer, M. Michailov, M. Henzler, "LEED Studies of the Epitaxy of Pb on Cu (111)" Surface Science 202, p. 125-141, (1988), ISSN: 0039-6028

197. A. Sala, H. Marchetto, Z.-H. Qin, S. Shaikhutdinov, Th. Schmidt, and H.-J. Freund, "Defects and inhomogeneities in Fe 3O 4(111) thin film growth on Pt(111)" Phys. Rev. B, 85 10 p. 155430 (2012), ISSN 1098-0121
198. Danaee I. „2D–3D nucleation and growth of palladium on graphite electrode“, Journal of Industrial and Engineering Chemistry, 1, 2012 <http://dx.doi.org/10.1016/j.jiec.2012.11.024>, ISSN: 1226-086X

Kralchevska, R., Milanova, M., Kovacheva, P., Kolev, J., Avdeev, G., Todorovsky, D., Influence of ThO 2 on the photocatalytic activity of TiO 2, Central European Journal of Chemistry 9 (6), (2012), pp. 1027-1038. ISSN: 1644-3624

199. Weber, A.S., Grady, A.M., Koodali, R.T., Lanthanide modified semiconductor photocatalysts, Catalysis Science and Technology 2 (4) , (2012), pp. 683-693 ISSN 2044-4753 (print)

G. V. Avdeev, T. I. Milenov, A. V. Egorysheva, K. P. Petrov, V. M. Skorikov, R. Kh. Titorenkova, and P. M. Rafailov, Crystal Structure of Bi₃₆MgP₂O_{60-δ}, Russian Journal of Inorganic Chemistry, Vol. 56, No. 6, (2011), pp. 918–923, ISSN 0036 0236.

200. Arenas, D.J., Jegorel, T., Knab, C., Gasparov, L.V., Martin, C., Pajerowski, D.M., Kohno, H., Lufaso, M.W., Raman spectroscopy evidence of inhomogeneous disorder in the bismuth-oxygen framework of Bi₂₅InO₃₉ and other sillenites, , Physical Review B - Condensed Matter and Materials Physics 86 (14), (2012), art. no. 144116, ISSN (printed): 1098-0121. ISSN (electronic): 1550-235X
201. Denisov, V.M., Irtyugo, L.A., Denisova, L.T., Kirik, S.D., Kazachenko, E.A., A study of Bi₂Al₄O₉ heat capacity in the range 298-1000 K, , Physics of the Solid State 54 (6), (2012), pp. 1138-1140, ISSN: 1063-7834 (print version), ISSN: 1090-6460 (electronic version)

Kovacheva, P., Avdeev, G., Application of mechanochemical activation for synthesis of uranium-lanthanoid mixed oxides, Journal of Radioanalytical and Nuclear Chemistry, 288 (1), (2011), pp. 221-227. ISSN: 0236-5731 (print version), ISSN: 1588-2780 (electronic version)

202. Bakht, M.K., Sadeghi, M., Tenreiro, C., A novel technique for simultaneous diagnosis and radioprotection by radioactive cerium oxide nanoparticles: Study of cyclotron production of ^{137m}Ce, Journal of Radioanalytical and Nuclear Chemistry 292 (1), (2012), pp. 53-59, ISSN: 0236-5731 (print version), ISSN: 1588-2780 (electronic version)

Rafailov, P.M., Egorysheva, A.V., Milenov, T.I., Volodin, V.D., Avdeev, G.V., Titorenkova, R., Skorikov, V.M., Petrova, R., Gospodinov, M.M., Synthesis, growth and optical spectroscopy studies of BaBiBO₄ and CaBi₂B₂O₇ crystals, Applied Physics B: Lasers and Optics, 101 (1-2), (2010), pp. 185-192., ISSN: 0946-2171 (print version), ISSN: 1432-0649 (electronic version)

203. Dong, X., Pan, S., Li, F., Shi, Y., Zhou, Z., Zhao, W., Huang, Z., Synthesis, growth, crystal structure and optical properties of BaBiBO₄, Inorganic Chemistry Communications 23, (2012), pp. 109-112, ISSN: 1387-7003

Milenov, T.I., Rafailov, P.M., Abrashev, M.V., Nikolova, R.P., Nakatsuka, A., Avdeev, G.V., Veleva, M.N., Dobreva, S., Yankova, L., Gospodinov, M.M. Growth and characterization of La₂CoMnO₆ crystals doped with Pb, Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 172 (1), (2010), pp. 80-84. ISSN: 0921-5107

204. Bai, Y., Xia, Y., Li, H., Han, L., Wang, Z., Wu, X., Lv, S., Liu, X., Meng, J., A-site-doping enhanced B-site ordering and correlated magnetic property in La_{2-x}Bi_xCoMnO₆, Journal of Physical Chemistry C, 116 (32), (2012) pp. 16841-16847. ISSN 1932-7447 (print), 1932-7455 (web)

Milev, D.R., Atanasov, P.A., Dikovska, A.O., Dimitrov, I.G., Petrov, K.P., Avdeev, G.V., Er₃₊,Yb₃₊:YVO₄ waveguides deposited on amorphous SiO₂ by PLD and UVPLD, Thin Solid Films, 518 (16), (2010), pp. 4726-4729. ISSN: 0040-6090

- 205.** Cheng, X., Su, L., Wang, Y., Zhu, X., Wei, X., Wang, Y., Near-infrared quantum cutting in YVO₄:Yb 3+ thin-films via downconversion, Optical Materials, 34 (7), (2012), pp. 1102-1106. ISSN: 0925-346

Mancheva, M., Iordanova, R., Dimitriev, Y., Avdeev, G., Synthesis of cubic ZrWMoO₈ by a melt quenching method, Journal of Non-Crystalline Solids, 355 (37-42), (2009), pp. 1904-1907. ISSN: 0022-3093

- 206.** Zhao, R., Chen, X., Ma, H., Wang, X., Zhao, X., Zr 1-xYb xWMoO_{8-x/2} (x = 0, 0.04) ceramics fabricated by in situ synthesis from trigonal polymorph: Preparation, sintering process, and negative thermal expansion properties, Journal of Materials Science, 47 (23), (2012) pp. 8061-8066. ISSN: 0022-2461 (print version), ISSN: 1573-4803 (electronic version)

Amarilla, J.M., Petrov, K., Picó, F., Avdeev, G., Rojo, J.M., Rojas, R.M., Sucrose-aided combustion synthesis of nanosized LiMn_{1.99-y}Li_yMn_{0.01}O₄ (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), pp. 591-600. ISSN: 0378-7753

- 207.** Xiong, L., Xu, Y., Tao, T., Goodenough, J.B., Synthesis and electrochemical characterization of multi-cations doped spinel LiMn₂O₄ used for lithium ion batteries, Journal of Power Sources, 199, (2012), pp. 214-219. ISSN: 0378-7753

- 208.** Churikov, A.V., Romanova, V.O., An electrochemical study on the substituted spinel LiMn 1.95Cr 0.05O 4, Ionics, 18 (9), (2012), pp. 837-844. ISSN: 0947-7047 (print version), ISSN: 1862-0760 (electronic version)

- 209.** Khoshbin, R., Haghghi, M., Urea-nitrate combustion synthesis and physicochemical characterization of CuO-ZnO-Al 2O 3 nanoparticles over HZSM-5, Chinese Journal of Inorganic Chemistry, 28 (9), (2012) pp. 1967-1976. ISSN 1001-4861

- 210.** Lu, D., Li, Z., Xie, Y., A new method for improving the capacity of Li 1+xV 3O 8 in rechargeable lithium batteries, Advanced Materials Research, 512-515, (2012) pp. 933-937. ISSN : 1662-8985

- 211.** Dahbi, M., Urbonaite, S., Gustafsson, T., Combustion synthesis and electrochemical performance of Li 2FeSiO 4/C cathode material for lithium-ion batteries, Journal of Power Sources, 205, (2012) pp. 456-462. ISSN: 0378-7753

- 212.** Gu, X., Li, X., Xu, L., Xu, H., Yang, J., Qian, Y., Synthesis of spinel $\text{LiNi}_x\text{Mn}_{2-x}\text{O}_4$ ($x=0, 0.1, 0.16$) and their high rate charge-discharge performances, International Journal of Electrochemical Science, 7 (3), (2012) pp. 2504-2512. ISSN 1452-398
- 213.** Xiong, L., Xu, Y., Tao, T., Goodenough, J.B., Synthesis and electrochemical characterization of multi-cations doped spinel LiMn_2O_4 used for lithium ion batteries, Journal of Power Sources, 199, (2012) pp. 214-219. ISSN: 0378-7753
- 214.** Mao, J., Dai, K.-H., Zhai, Y.-C., High rate capability and cycling stability of $\text{Li}_{1.07}\text{Mn}_{1.93}\text{O}_4$ nanoflakes synthesized via gel-combustion method, Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 28 (2), (2012) pp. 349-354. ISSN: 1872-1508

Andreeva, D., Ivanov, I., Ilieva, L., Abrashev, M.V., Zanella, R., Sobczak, J.W., Lisowski, W., Kantcheva, M., Avdeev, G., Petrov, K., 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)pp. 159-169. ISSN: 0926-860X

- 215.** Reddy, E.L., Prabhakarn, A., Karuppiah, J., Rameshbabu, N., Subrahmanyam, C.H., Gold supported calcium deficient hydroxyapatite for room temperature co oxidation, International Journal of Nanoscience, 11 (3), (2012) art. no. 1240004, . Print ISSN: 0219-581X, Online ISSN: 1793-5350

Rashkov, R., Arnaudova, M., Avdeev, G., Zielonka, A., Jannakoudakis, P., Jannakoudakis, A., Theodoridou, E., NiW/TiO_x composite layers as cathode material for hydrogen evolution reaction, International Journal of Hydrogen Energy, 34 (5), (2009) pp. 2095-2100. ISSN: 0360-3199

- 216.** Beltowska-Lehman, E., Indyka, P., Bigos, A., Kot, M., Tarkowski, L., Electrodeposition of nanocrystalline Ni-W coatings strengthened by ultrafine alumina particles, Surface and Coatings Technology, 211, (2012) pp. 62-66. ISSN: 0257-8972
- 217.** Zheng, Z., Li, N., Wang, C.-Q., Li, D.-Y., Zhu, Y.-M., Wu, G., Ni-CeO₂ composite cathode material for hydrogen evolution reaction in alkaline electrolyte, International Journal of Hydrogen Energy, 37 (19), (2012) pp. 13921-13932. ISSN: 0360-3199

Boshkov, N., Tsvetkova, N., Petrov, P., Koleva, D., Petrov, K., Avdeev, G., Tsvetanov, Ch., Raichevsky, G., Raicheff, R., Corrosion behavior and protective ability of Zn and Zn-Co electrodeposits with embedded polymeric nanoparticles, Applied Surface Science, 254 (17), (2008), pp. 5618-5625. ISSN: 0169-4332

- 218.** Olad, A., Barati, M., Behboudi, S., Preparation of PANI/epoxy/Zn nanocomposite using Zn nanoparticles and epoxy resin as additives and investigation of its

corrosion protection behavior on iron, Progress in Organic Coatings, 74 (1), (2012) pp. 221-227. ISSN: 0300-9440

- 219.** Gomes, A., Almeida, I., Frade, T., Tavares, A.C., Stability of Zn-Ni-TiO₂ and Zn-TiO₂ nanocomposite coatings in near-neutral sulphate solutions, Journal of Nanoparticle Research, 14 (2), (2012) art. no. 692. ISSN: 1388-0764 (print version), ISSN: 1572-896X (electronic version)

Andreeva, D., Ivanov, I., Ilieva, L., Sobczak, J.W., Avdeev, G., Tabakova, T., Nanosized gold catalysts supported on ceria and ceria-alumina for WGS reaction: Influence of the preparation method, Applied Catalysis A: General, 333 (2), (2007), pp. 153-160. ISSN: 0926-860X

- 220.** Teo, E.Y.H., Lin, M., Fu, Z., Ng, S.C., Song, S., Tan, J.C., Synthesis and characterization of CeO₂ nanoparticles by low temperature hydrothermal and solvent thermal process, Materials Research Society Symposium Proceedings, 1406, (2012) pp. 69-76. ISSN: 0272-9172
- 221.** Smolentseva, E., Simakov, A., Beloshapkin, S., Estrada, M., Vargas, E., Sobolev, V., Kenzhin, R., Fuentes, S., Gold catalysts supported on nanostructured Ce-Al-O mixed oxides prepared by organic sol-gel, Applied Catalysis B: Environmental, 115-116, (2012) pp. 117-128. ISSN: 0926-3373
- 222.** Reina, T.R., Ivanova, S., Domínguez, M.I., Centeno, M.A., Odriozola, J.A., Sub-ambient CO oxidation over Au/MO_x/CeO₂-Al₂O₃ (M = Zn or Fe), Applied Catalysis A: General, 419-420, (2012) pp. 58-66. ISSN: 0926-860X

Avdeev, G., Petrov, K., Mitov, I., X-ray diffraction and Mössbauer spectroscopy studies of LiFe_{0.5}Ti_{1.5}O₄ - A new primitive cubic ordered spinel, Solid State Sciences, 9 (12), (2007), pp. 1135-1139. ISSN: 1293-2558

- 223.** Zhang, Y., Wen, D., Infrared emission properties of RE (RE = La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, and Dy) and Mn co-doped Co_{0.6}Zn_{0.4}Fe₂O₄ ferrites, Materials Chemistry and Physics, 131 (3), (2012), pp. 575-580. ISSN: 0254-0584

Mancheva, M.N., Iordanova, R.S., Dimitrov, Y.B., Petrov, K.P., Avdeev, G.V., Direct synthesis of metastable nanocrystalline ZrW₂O₈ by a melt-quenching method, Journal of Physical Chemistry C, 111 (41), (2007), pp. 14945-14947. ISSN 1932-7447 (print), 1932-7455 (web)

- 224.** Chen, M.Y., Chen, C., Zirconium tungstate/bismaleimide composite, Polymers for Advanced Technologies, 23 (6), (2012), pp. 958-966. ISSN: 1042-7147 Online ISSN: 1099-1581

Milev, D.R., Atanasov, P.A., Dikovska, A.Og., Dimitrov, I.G., Petrov, K.P., Avdeev, G.V., Structural and optical properties of YVO₄ thin films, Applied Surface Science, 253 (19), (2007), pp. 8250-8253. ISSN: 0169-4332

- 225.** Cheng, X., Su, L., Wang, Y., Zhu, X., Wei, X., Wang, Y., Near-infrared quantum cutting in YVO₄:Yb³⁺ thin-films via downconversion, Optical Materials, 34 (7), (2012), pp. 1102-1106. ISSN: 0925-346

Andreeva, D., Ivanov, I., Ilieva, L., Sobczak, J.W., Avdeev, G., Petrov, K., Gold based catalysts on ceria and ceria-alumina for WGS reaction (WGS Gold catalysts), Topics in Catalysis, 44 (1-2), (2007), pp. 173-182. ISSN: 1022-5528 (print version), ISSN: 1572-9028 (electronic version)

- 226.** Reina, T.R., Ivanova, S., Domínguez, M.I., Centeno, M.A., Odriozola, J.A., Sub-ambient CO oxidation over Au/MO_x/CeO₂-Al₂O₃ (M = Zn or Fe), Applied Catalysis A: General, 419-420, (2012), pp. 58-66. ISSN: 0926-860X

- 227.** Longo, A., Liotta, L.F., Pantaleo, G., Giannici, F., Venezia, A.M., Martorana, A., Structure of the metal-support interface and oxidation state of gold nanoparticles supported on ceria, Journal of Physical Chemistry C, 116 (4), (2012), pp. 2960-2966. ISSN 1932-7447 (print), 1932-7455 (web)

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) pp. 110-117. ISSN: 0378-7753

- 228.** Thirunakaran, R., Ravikumar, R., Vijayarani, S., Gopukumar, S., Sivashanmugam, A., Molybdenum doped spinel as cathode material for lithium rechargeable cells, Energy Conversion and Management, 53 (1), (2012) pp. 276-281. ISSN: 0196-8904

Chr. Nanev, A. Milchev , Silver-mercury whiskers, Physica Status Solidi, (a) 12(1972)291-297, ISSN: 00318965

- 229.** Qiu, R., Zhang, D., Wang, P., Dendritic core-shell structure preparation by a facile consecutive electrochemical crystal growth method, Electrochimica Acta, 81(2012)112-116. ISSN: 00134686;

A.Milchev, S.Stoyanov, Classical and atomistic models of electrolytic nucleation - comparison with experimental data, Journal of Electroanalytical Chemistry, 72(1976)33-43, ISSN: 03681874.

- 230.** Muñoz, E.C., Córdova, R.A., Henríquez, R.G., Schrebler, R.S., Cisternas, R., Marotti, R.E., Electrochemical synthesis and nucleation and growth mechanism of

Prussian blue films on p-Si(100) electrodes, Journal of Solid State Electrochemistry, 16(1)(2012)93-100, ISSN:14328488.

231. Zhang, Q., Hua, Y., Influence of [BMIM]HSO₄ on electrodeposition and corrosion behavior of Zn coatings from acidic sulfate bath, Surface and Interface Analysis, 44(9)(2012)1254-1260, ISSN: 01422421;

E.Michailova and A.Milchev, Nucleation and growth kinetics of Ag₇NO₁₁ on a platinum single crystal electrode, J.Appl.Electrochem., 18(1988)614-618, ISSN: 0021891X

232. Tanaka, R., Takata, S., Takahashi, R., Grepstad, J.K., Tybell, T., Matsumoto, Y., Photo-electrochemical synthesis of silver-oxide clathrate Ag₇O₈NO₃ on SrTiO₃ Electrochemical and Solid-State Letters 15(4)(2012) E19-E22; ISSN: 10990062

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

233. M.Rezaei, S.H.Tabaian, D.F.Haghshenas, Nucleation and growth of Pd nanoparticles during electrocrystallization on pencil graphite, Electrochimica Acta 59(2012)360–366 ISSN: 00134686

234. L.H.Mendoza-Huizar, C.H.Rios-Reyes, Cobalt electrodeposition on polycrystalline palladium. Influence of temperature on kinetic parameters, J.Solid State Electrochem 16 (2012)2899–2906, ISSN: 14328488

235. M.Rezaei, S.H.Tabaian, D.F.Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, J.Electroanal.Chem., 687(2012)95–101, ISSN: 15726657

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

236. Rashidi, A.M., A Galvanostatic Modeling for Preparation of Electrodeposited Nanocrystalline Coatings by Control of Current Density, Journal of Materials Science and Technology, 28(12)(2012)1071-1076; ISSN: 10050302;

237. A.Milchev, W.Kruijt, M.Sluyters-Rehbach, J.H.Sluyters, Probabilistic analysis of the distances between clusters randomly distributed on the electrode surface J.Electroanal.Chem., 350(1993) 89-95, ISSN: 00220728.

238. М.Илиева, Отлагане на метални частици в електрохимично синтезирани слоеве от поли-3,4- этилендиокситиофен, Дисертация за присъждане на образователната и научна степен «доктор», специалност 01.01.05. Физикохимия, ИФХ «Ростислав Каишев», БАН, 2012.

- 239.** Velmurugan, J., Noël, J.-M., Nogala, W., Mirkin, M.V., Nucleation and growth of metal on nanoelectrodes, *Chemical Science* 3 (11) 2012) 3307-3314, ISSN: 20416520
- 240.** Jin You Zheng, Abhijit P. Jadhav, Guang Song, Chang Woo Kim, Young Soo Kang, Cu and Cu₂O films with semi-spherical particles grown by electrochemical deposition, *Thin Solid Films* 524(2012)50–56; ISSN: 00406090
- 241.** Zhang, Q., Hua, Y., Influence of [BMIM]HSO₄ on electrodeposition and corrosion behavior of Zn coatings from acidic sulfate bath, *Surface and Interface Analysis*, 44(9)(2012)1254-1260, ISSN: 01422421
- 242.** E.Michailova, M.Peykova, D.Stoychev, A.Milchev, On the role of surface active agents in the nucleation step of metal electrodeposition on a foreign substrate, *J.Electroanal.Chem.*, 366(1994)195-202, ISSN: 00220728.
- 243.** Méndez, A., Meas, Y., Ortega-Borges, R.,Trejo, G., Thermodynamic study of PEG (MW20,000) adsorption in the presence of Cl - anions onto a polycrystalline gold electrode, *J. Electrochem.Soc.*, 159(3)(2012)F48-F45, ISSN: 00134651
- 244.** Zhang, Q., Hua,Y., Influence of [BMIM]HSO₄ on electrodeposition and corrosion behavior of Zn coatings from acidic sulfate bath, *Surface and Interface Analysis*, 44(9)(2012)1254-1260, ISSN: 01422421

M.Peykova, E.Michailova, D.Stoychev, A.Milchev, Galvanostatic studies of the nucleation and growth kinetics of copper in the presence of surfactants, *Electrochim. Acta*, 40(1995)2595-2601, ISSN: 00134686

- 245.** Guascito, M.R., Malitesta, C., Sabbatini, L., Nucleation and growth of copper particles on Pt and Pt/poly-3- methylthiophene modified electrode in presence of Cl- complexing agent, *Materials Chemistry and Physics*, 31(3)(2012)719-727; ISSN: 02540584
- 246.** Jari Aromaa, Antti Kekki, Anna Stefanova and Olof Forsen, Copper nucleation and growth patterns on stainless steel cathode blanks in copper electrorefining, *J.Solid State Electrochem.*, 16(2012)3529–3537, ISSN: 14328488
- 247.** Jin You Zheng, Abhijit P. Jadhav, Guang Song, Chang Woo Kim, Young Soo Kang, Cu and Cu₂O films with semi-spherical particles grown by electrochemical deposition, *Thin Solid Films* 524(2012)50–56; ISSN: 00406090

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

- 248.** M.Rezaei, S.H.Tabaian, D.F.Haghshenas, Nucleation and growth of Pd nanoparticles during electrocrystallization on pencil graphite, *Electrochimica Acta* 59(2012)360–366, ISSN: 00134686
- 249.** El-Shafei, A.A., Ibrahim, A.A., Ouf, A.M.A., Calcination effect of nanosized ceria in ceria-platinum composite electrode for direct ethylene glycol oxidation, *Applied Catalysis A: General* 421-422(2012)135-141; ISSN:0926860X ;

V.Tsakova and A.Milchev, Spatial distribution of electrochemically deposited clusters: a simulation study, J. Electroanal. Chem., 451(1998)211, ISSN: 00220728.

- 250.** М.Илиева, Отлагане на метални частици в електрохимично синтезирани слоеве от поли-3,4- этилендиокситиофен, Дисертация за присъждане на образователната и научна степен «доктор», специалност 01.01.05. Физикохимия, ИФХ «Ростислав Каишев», БАН, 2012.

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

- 251.** Velmurugan, J., Noël, J.-M., Nogala, W., Mirkin, M.V., Nucleation and growth of metal on nanoelectrodes, *Chemical Science* 3(11)(2012)3307-3314, ISSN: 20416520

A.Milchev, Electrochemical nucleation on active sites - what do we measure in reality? Part II, J. Electroanal. Chem., 457(1998)47. ISSN: 00220728

- 252.** Vigdorovich, V.I., Tsygankova, L.E., The role of a preceding chemical reaction and reactive clusters in phase transitions of intermetallic compounds, *Protection of Metals and Physical Chemistry of Surfaces*, 48(6)(2012) 608-613, ISSN: 20702051

G.Kokkinidis, A.Papoutsis, D.Stoychev, A.Milchev, Electroless deposition of Pt on Ti – catalytic activity for the hydrogen evolution reaction, J.Electroanal.Chem., 486(2000)48, ISSN: 00220728

- 253.** Maijenburg, A.W., George, A., Samal, D., Nijland, M., Besselink, R., Kuiper, B., Kleibeuker, J.E., Ten Elshof, J.E., Electrodeposition of micropatterned NiPt multilayers and segmented NiPtNi nanowires, *Electrochimica Acta*, 81(2012)123-128, ISSN: 00134686;

- 254.** Zhang, M., Yan, Z., Xie, J, Core/shell Ni@Pd nanoparticles supported on MWCNTs at improved electrocatalytic performance for alcohol oxidation in alkaline media, *Electrochimica Acta* 77(2012)237-243, ISSN: 00134686

- 255.** Kuznetsov, V.V., Kavyrshina, K.V., Podlovchenko, B.I., Formation and electrocatalytic properties of Pd deposits on Mo obtained by galvanic

displacement, Russian Journal of Electrochemistry 48(4)(2012)467-473, ISSN: 10231935

- 256.** Mentus, S., Abu Rabi, A., Jašin, D., Oxygen reduction on potentiodynamically formed Pd/TiO₂ composite electrodes, *Electrochimica Acta*, 69(2012)174-180, ISSN: 00134686;

M.Arrib, B.Zhang, V.Lazarov, D.Stoychev, A.Milchev and Cl.Buess-Herman, Electrochemical nucleation and growth of rhodium on gold substrates, J.Electroanal.Chem., 510(2001)67-77

- 257.** M.Rezaei, S.H.Tabaian, D.F.Haghshenas, Nucleation and growth of Pd nanoparticles during electrocrystallization on pencil graphite, *Electrochimica Acta* 59(2012)360–366 ISSN: 00134686

- 258.** M.Rezaei, S.H.Tabaian, D.F.Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, *J.Electroanal.Chem.*, 687(2012)95–101, ISSN: 15726657

- 259.** Garfias-García, E. Romero-Romo, M., Ramírez-Silva, M.T., Palomar-Pardavé, M. Overpotential nucleation and growth of copper onto polycrystalline and single crystal gold electrodes, *International Journal of Electrochemical Science*, 7(4)(2012)3102-3114, ISSN: 14523981

G.Kokkinidis, D.Stoychev, V.Lazarov, A.Papoutsis and A.Milchev, Electroless deposition of Pt on Ti Part II. Catalytic activity for oxygen reduction" J.Electroanal.Chem., 511(2001)20-30. ISSN: 00220728

- 260.** Maijenburg, A.W., George, A., Samal, D., Nijland, M., Besselink, R., Kuiper, B., Kleibeuker, J.E., Ten Elshof, J.E., Electrodeposition of micropatterned NiPt multilayers and segmented NiPtNi nanowires, *Electrochimica Acta*, 81(2012)123-128, ISSN: 00134686;

- 261.** Zhang, M., Yan, Z., Xie, J, Core/shell Ni@Pd nanoparticles supported on MWCNTs at improved electrocatalytic performance for alcohol oxidation in alkaline media, *Electrochimica Acta*, 77(2012)237-243, ISSN: 00134686;

- 262.** Kuznetsov, V.V., Kavyrshina, K.V., Podlovchenko, B.I., Formation and electrocatalytic properties of Pd deposits on Mo obtained by galvanic displacement, *Russian Journal of Electrochemistry*, 48(4)(2012)467-473, ISSN: 10231935

D. Stoychev, A. Papoutsis, A. Kelaidopoulou, G. Kokkinidis and A. Milchev, Electrodeposition of platinum on metallic and nonmetallic substrates – selection of experimental conditions, Materials Chemistry and Physics, 72 (2001) 360-365, ISSN: 0254-0584.

263. Orr, G., Roth, M., Safe and consistent method of spot-welding platinum thermocouple wires and foils for high temperature measurements, *Review of Scientific Instruments*, 83(8)(2012), ISSN: 00346748;

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

264. Khelladi, M.R., Mentar, L., Boubatra, M., Azizi, A., Study of nucleation and growth process of electrochemically synthesized ZnO nanostructures *Materials Letters* 67(1)(2012)331-333, ISSN: 0167577X.

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

265. M. Rezaei, S.H.Tabaian, D.F.Haghshenas, Nucleation and growth of Pd nanoparticles during electrocrystallization on pencil graphite, *Electrochimica Acta* 59(2012)360–366 ISSN: 00134686

266. M.Rezaei, S.H.Tabaian, D.F.Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, *J.Electroanal.Chem.*, 687(2012)95–101, ISSN: 15726657

267. Garfias-García, E. Romero-Romo, M., Ramírez-Silva, M.T., Palomar-Pardavé, M. Overpotential nucleation and growth of copper onto polycrystalline and single crystal gold electrodes, *International Journal of Electrochemical Science*, 7(4)(2012)3102-3114, ISSN: 14523981

268. Jin You Zheng, Abhijit P. Jadhav, Guang Song, Chang Woo Kim, Young Soo Kang, Cu and Cu₂O films with semi-spherical particles grown by electrochemical deposition, *Thin Solid Films* 524(2012)50–56; ISSN: 00406090

269. Berkes, B. B., Henry, J. B., Huang, M., Bondarenko, A. S., Electrochemical characterisation of copper thin-film formation on polycrystalline platinum, *Chem. Phys. Chem.*, 13(13)(2012)3210-3217; ISSN: 14394235

A.Milchev, T.Zapryanova, Nucleation and growth of copper under combined charge transfer and diffusion limitations. Part II, *Electrochimica Acta*, 51(2006)4916.

270. M.Rezaei, S.H.Tabaian, D.F.Haghshenas, Nucleation and growth of Pd nanoparticles during electrocrystallization on pencil graphite, *Electrochimica Acta* 59(2012)360–366ISSN: 00134686

271. M.Rezaei, S.H.Tabaian, D.F.Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, *J.Electroanal.Chem.*, 687(2012) 95–101, ISSN: 15726657

- 272.** Garfias-García, E. Romero-Romo, M., Ramírez-Silva, M.T., Palomar-Pardavé, M. Overpotential nucleation and growth of copper onto polycrystalline and single crystal gold electrodes, International Journal of Electrochemical Science, 7(4)(2012)3102-3114, ISSN: 14523981
- 273.** Jin You Zheng, Abhijit P. Jadhav, Guang Song, Chang Woo Kim, Young Soo Kang, Cu and Cu₂O films with semi-spherical particles grown by electrochemical deposition, Thin Solid Films 524(2012)50–56; ISSN: 00406090
- 274.** Berkes, B. B., Henry, J. B., Huang, M., Bondarenko, A. S., Electrochemical characterisation of copper thin-film formation on polycrystalline platinum, Chem. Phys. Chem, 13(13)(2012)3210-3217; ISSN: 14394235

T.Zapryanova, A.Hrušanova and A.Milchev, Nucleation and growth of copper on glassy carbon: Studies in extended overpotential interval, J.Electroanal.Chem., 600(2007)311-317, ISSN: 00220728.

- 275.** Jari Aromaa, Antti Kekki, Anna Stefanova and Olof Forsen, Copper nucleation and growth patterns on stainless steel cathode blanks in copper electrorefining, J.Solid State Electrochem., 16(2012)3529–3537, ISSN: 14328488
- 276.** M.Rezaei, S.H.Tabaian, D.F.Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, J.Electroanal.Chem., 687(2012) 95–101, ISSN: 15726657
- 277.** Garfias-García, E. Romero-Romo, M., Ramírez-Silva, M.T., Palomar-Pardavé, M. Overpotential nucleation and growth of copper onto polycrystalline and single crystal gold electrodes, International Journal of Electrochemical Science, 7(4)(2012)3102-3114, ISSN: 14523981

A.Milchev, Nucleation and growth of clusters through multi-step electrochemical reactions, J.Electroanal.Chem., 612(2008)42, ISSN: 00220728

- 278.** Guascito, M.R., Malitesta, C., Sabbatini, L., Nucleation and growth of copper particles on Pt and Pt/poly-3- methylthiophene modified electrode in presence of Cl⁻ complexing agent, Materials Chemistry and Physics, 131(3)(2012)719-727; ISSN: 02540584

T. Zapryanova, N.Jordanov and A.Milchev, Electrochemical growth of single copper crystals on glassy carbon and tungsten substrates, J.Electroanal.Chem., 612(2008)47, ISSN: 00220728

- 279.** Jari Aromaa, Antti Kekki, Anna Stefanova and Olof Forsen, Copper nucleation and growth patterns on stainless steel cathode ISSN: 14328488

- 280.** Jin You Zheng, Abhijit P. Jadhav, Guang Song, Chang Woo Kim, Young Soo Kang, Cu and Cu₂O films with semi-spherical particles grown by electrochemical deposition, Thin Solid Films 524(2012)50–56; ISSN: 00406090
- 281.** M. Rezaei, S.H.Tabaian, D.F.Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, J.Electroanal.Chem., 687(2012) 95–101, ISSN: 15726657

А.Милчев, Электрокристаллизация: зародышеобразование и рост нанокластеров на поверхности твердых тел, Электрохимия, 44(6)(2008)669.

- 282.** Gamborg, Y. D., Kinetic model of electrochemical nucleation, Russian Journal of Electrochemistry, 45(2009)1397-1400 ISSN: 10231935

T. Zapryanova, A. Danilov, A. Milchev, Growth Kinetics of Single Copper Crystals: the Concentration Dependence, Russian Journal of Electrochemistry, 46(6)(2010)607–610 ISSN: 10231935;

- 283.** Guascito, M.R., Malitesta, C., Sabbatini, L., Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, Materials Chemistry and Physics, 131(3)(2012)719-727; ISSN: 02540584

A.Milchev, ElectrocrySTALLization: Fundamentals of Nucleation and Growth, Kluwer Academic Publishers, Boston/Dordrecht/London, 2002, ISBN 1-4020-7090-X

- 284.** M.Rezaei, S.H.Tabaian, D.F.Haghshenas, Nucleation and growth of Pd nanoparticles during electrocrystallization on pencil graphite, Electrochimica Acta 59(2012)360–366 ISSN: 00134686
- 285.** Shirvani, K., Mastali, S., Effect of grain refinement and immersion time on morphology, topography and corrosion resistance of CCC-Coated 7075 Al alloy, Journal of the Electrochemical Society, 159(2)(2012)C74-C79; ISSN: 00134686
- 286.** Bund, A, Electrochemical principles of pulse plating, Galvanotechnik 103(3)(2012)500-504, ISSN: 00164232
- 287.** I. Valov, I. Sapezanskaia, A. Nayak, T. Tsuruoka, Th. Bredow, T. Hasegawa, G. Staikov, M. Aono, R.Waser, Atomically controlled electrochemical nucleation at superionic solid electrolyte surfaces, Nature materials, Articles published online: 29 April 2012

- 288.** Kh.Z.Brainina, L.G.Galperin, E.V.Vikulova, Electrochemistry of nanoparticles, J.Solid State Electrochem., 16(2012)2357-2363, ISSN: 14328488
- 289.** A. V. Gunstov, Diffusive problem of Stephan and its solution for processes of electrodissolution of semispherical nuclei of the deposit, J Solid State Electrochem 16(2012)2309–2314; ISSN: 1433-0768
- 290.** M.Rezaei, S.H.Tabaian, D.F.Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, J.Electroanal.Chem., 687(2012)95–101, ISSN: 15726657
- 291.** Garfias-García, E. Romero-Romo, M., Ramírez-Silva, M.T., Palomar-Pardavé, M. Overpotential nucleation and growth of copper onto polycrystalline and single crystal gold electrodes, International Journal of Electrochemical Science, 7(4)(2012)3102-3114, ISSN: 14523981
- 292.** М.Илиева, Отлагане на метални частици в електрохимично синтезирани слоеве от поли-3,4- этилендиокситиофен, Дисертация за присъждане на образователната и научна степен «доктор», специалност 01.01.05. Физикохимия, ИФХ «Ростислав Каишев», БАН, 2012.
- 293.** Velmurugan, J., Noël, J.-M., Nogala, W., Mirkin, M.V., Nucleation and growth of metal on nanoelectrodes, Chemical Science 3(11)(2012)3307-3314, ISSN: 20416520
- 294.** Rashidi, A.M., A Galvanostatic Modeling for Preparation of Electrodeposited Nanocrystalline Coatings by Control of Current Density, Journal of Materials Science and Technology, 28(12)(2012)1071-1076, ISSN: 10050302.
- 295.** Kashchiev, D., Magic cluster sizes in nucleation of crystals, Crystal Growth and Design, 12(6)(2012)3257-3262, ISSN: 15287483.

Argyrakis, P.; Milchev, A.; Pereyra V.; Kehr, Kw, Dependence Of The Diffusion-Coefficient On The Energy-Distribution Of Random Barriers, Physical Review E, 52, pp. 3623-3631 Doi: 10.1103/Physreve.52.3623 1995 ISSN 1550-7998

- 296.** Hung, P. K. Study Of Blocking Effect For Diffusion In Disordered Lattice. Journal Of Non-Crystalline Solids, 358, 8 pp.: 1141-1145 Doi: 10.1016/J.Jnoncrysol.2012.02.008, Apr 15 2012 ISSN: 0022-3093
- 297.** Hung, Pk; Mung, Tv; Hong, Nv, Diffusion In One-Dimensional Disordered Lattice, Modern Physics Letters B, 26 Article Number: 1150011 Doi: 10.1142/S0217984911500114, 2012 ISSN: 1793-6640

Avramov, I; Milchev, A, Effect Of Disorder On Diffusion And Viscosity In Condensed Systems, Journal Of Non-Crystalline Solids, 104 pp.: 253-260 Doi: 10.1016/0022-3093(88)90396-1, 1988 ISSN: 0022-3093

- 298.** Masiewicz, E.; Grzybowski, A.; Sokolov, A. P.; Et Al. Temperature-Volume Entropic Model For Viscosities And Structural Relaxation Times Of Glass Formers, *Journal Of Physical Chemistry Letters*, 3 pp.: 2643-2648 Doi: 10.1021/Jz301168c, 2012 ISSN 1948-7185
- 299.** Ojovan, Michael I. Viscous Flow And The Viscosity Of Melts And Glasses: Physics And Chemistry Of Glasses-European Journal Of Glass Science And Technology Part B, 53 pp.: 143-150, 2012 ISSN 0031-9090
- 300.** Guo, Xiaoju; Mauro, John C.; Potuzak, Marcel; Et Al. Structural Relaxation In Annealed Hyperquenched Basaltic Glasses: Insights From Calorimetry *Journal Of Non-Crystalline Solids*, 358 Issue: 11 pp.: 1356-1361 Doi: 10.1016/J.Jnoncrysol.2012.03.009, 2012 ISSN: 0022-3093
- 301.** Kozmidis-Petrovic, Ana F. 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts: *Journal Of Non-Crystalline Solids*, 358 pp.: 1202-1209 Doi: 10.1016/J.Jnoncrysol.2012.02.022, 2012 ISSN: 0022-3093
- 302.** Wang, Lianwen : Extracting Energy And Structure Properties Of Glass-Forming Liquids From Structural Relaxation Time: *Journal Of Physics-Condensed Matter*, 24 Issue: 15 Article Number: 155103 Doi: 10.1088/0953-8984/24/15/155103, 2012 ISSN 0953-8984
- 303.** Zheng, Qiuju; Mauro, John C.; Smedskjaer, Morten M.; Et Al. Glass-Forming Ability Of Soda Lime Borate Liquids : *Journal Of Non-Crystalline Solids*, 358 pp.: 658-665 Doi: 10.1016/J.Jnoncrysol.2011.11.004, 2012 ISSN: 0022-3093
- 304.** Allan, Douglas C. : Inverting The Myega Equation For Viscosity : *Journal Of Non-Crystalline Solids*, 358 pp.: 440-442 Doi: 10.1016/J.Jnoncrysol.2011.09.036, 2012 ISSN: 0022-3093

Avramov, I; Milchev, A; Argyrakis, Diffusion In A Random Medium - A Monte-Carlo Study : P: Physical Review E, 47 pp.: 2303-2307 Doi: 10.1103/Physreve.47.2303, 1993 ISSN 1550-7998

- 305.** De Pablos-Martin, A.; Duran, A.; Pascual, M. J. Nanocrystallisation In Oxyfluoride Systems: Mechanisms Of Crystallisation And Photonic Properties : *International Materials Reviews*, 57 pp.: 165-186 Doi: 10.1179/1743280411y.0000000004, May 2012 ISSN 0950-6608

Avramova, K ; Milchev, A Polymer Chains In A Soft Nanotube: A Monte Carlo Study: Journal Of Chemical Physics, 124 Article Number: 024909 Doi: 10.1063/1.2151901, 2006 ISSN 0021-9606

- 306.** Begum, Fatema; Zhao, Haoyu; Simon, Sindee L. :Modeling Methyl Methacrylate Free Radical Polymerization: Reaction In Hydrophilic Nanopores: Polymer, 53 pp.: 3238-3244 Doi: 10.1016/J.Polymer.2012.05.023, 2012 ISSN: 0032-3861
- 307.** Yang, Zhiyong; Zhang, Dong; Ateeq-Ur-Rehman; Et Al. Aggregation Behavior Of Two Separate Polymers Confined Between Two Membranes: Soft Matter, 8 pp.: 1901-1908 Doi: 10.1039/C1sm06712e, 2012 ISSN 1744-683X

Bhattacharya, A. ; Morrison, W. H. ; Luo, K., Ala-Nissila T, Ying SC, Milchev A, Binder K.:Scaling Exponents Of Forced Polymer Translocation Through A Nanopore: European Physical Journal E, 29 pp.: 423-429 Doi: 10.1140/Epje/I2009-10495-5, Aug 2009 ISSN: 0032-3861

- 308.** Rasmussen, Christopher J.; Vishnyakov, Aleksey; Neimark, Alexander V.: Translocation Dynamics Of Freely Jointed Lennard-Jones Chains Into Adsorbing Pores :Journal Of Chemical Physics, 137 Article Number: 144903 Doi: 10.1063/1.4754632, 2012 ISSN 0021-9606
- 309.** Luo, Meng-Bo; Cao, Wei-Ping: Influence Of Polymer-Pore Interaction On The Translocation Of A Polymer Through A Nanopore :Physical Review E, 86 Article Number: 031914 Doi: 10.1103/Physreve.86.031914 Part: Part 1, 2012 ISSN 1550-7998
- 310.** Cao, Wei-Ping; Wang, Chao; Sun, Li-Zhen; Et Al.: Effects Of An Attractive Wall On The Translocation Of Polymer Under Driving Journal Of Physics-Condensed Matter, 24 Article Number: 325104 Doi: 10.1088/0953-8984/24/32/325104, 2012 ISSN 0953-8984
- 311.** Saito, Takuya; Sakaue, Takahiro: Process Time Distribution Of Driven Polymer Transport: Physical Review E, 85 Article Number: 061803 Doi: 10.1103/Physreve.85.061803 Part: Part 1, 2012 ISSN 1550-7998
- 312.** Zurek, S.; Kosmider, M.; Drzewinski, A.; Et Al. : Translocation Of Polymers In A Lattice Model: European Physical Journal E, 35 Article Number: 47 Doi: 10.1140/Epje/I2012-12047-4, 2012 ISSN: 1292-8941
- 313.** Feng Jian; Shang Yazhuo; Zhou Lihui; Et Al. Translocation Of Polymer Through A Nanopore Studied By Langevin Dynamics: Effect Of The Friction Coefficient :: Chinese Journal Of Chemical Engineering, 20 pp.: 231-238, 2012 ISSN: 1004-9541
- 314.** Edmonds, Christopher M.; Hudiono, Yeny C.; Ahmadi, Amir G.; Et Al. : Polymer Translocation In Solid-State Nanopores: Dependence Of Scaling Behavior On Pore Dimensions And Applied Voltage: Journal Of Chemical

Physics, 136 Article Number: 065105 Doi: 10.1063/1.3682777, 2012 ISSN 0021-9606

315. Yong, Huaisong; Wang, Yilin; Yuan, Shichen; Et Al.: Driven Polymer Translocation Through A Cylindrical Nanochannel: Interplay Between The Channel Length And The Chain Length :Soft Matter, 8 pp.: 2769-2774 Doi: 10.1039/C2sm06942c, 2012 ISSN 1744-683X

Bhattacharya, S.; Milchev, A.; Rostashvili, V. G.; Et Al.:Pulling An Adsorbed Polymer Chain Off A Solid Surface: European Physical Journal E, 29 pp.: 285-297 Doi: 10.1140/Epje/I2009-10492-8, Jul 2009 ISSN: 1292-8941

316. Skvortsov, Alexander M.; Klushin, Leonid I.; Polotsky, Alexey A.; Et Al.: Mechanical Desorption Of A Single Chain: Unusual Aspects Of Phase Coexistence At A First-Order Transition: Physical Review E, 85 Article Number: 031803 Doi: 10.1103/Physreve.85.031803 Part: Part 1, 2012 ISSN 1550-7998

Bhattacharya, S. ; Rostashvili, V. G. ; Milchev, A. ; Et Al.Forced-Induced Desorption Of A Polymer Chain Adsorbed On An Attractive Surface: Theory And Computer Experimen Macromolecules, 42 Issue: 6 pp.: 2236-2250 Doi: 10.1021/Ma8024392, Mar 24 2009 ISSN 0953-8984

317. Skvortsov, Alexander M.; Klushin, Leonid I.; Polotsky, Alexey A.; Et Al.: Mechanical Desorption Of A Single Chain: Unusual Aspects Of Phase Coexistence At A First-Order Transition: Physical Review E, 85 Article Number: 031803 Doi: 10.1103/Physreve.85.031803, 2012 ISSN 1550-7998

318. Hsu, Hsiao-Ping; Binder, Kurt: Stretching Semiflexible Polymer Chains: Evidence For The Importance Of Excluded Volume Effects From Monte Carlo Simulation :Journal Of Chemical Physics, 136 Article Number: 024901 Doi: 10.1063/1.3674303, 2012 ISSN · 0021-9606

Polymer Desorption Under Pulling: A Dichotomic Phase Transition: Bhattacharya, S. ; Rostashvili, V. G. ; Milchev, A. ; Et Al. : Physical Review E, 79 Article Number: 030802 Doi: 10.1103/Physreve.79.030802, 2009 ISSN 1550-7998

319. Alexander M.; Klushin, Leonid I.; Polotsky, Alexey A.; Et Al.: Mechanical Desorption Of A Single Chain: Unusual Aspects Of Phase Coexistence At A First-Order Transition: Skvortsov, Physical Review E, 85 Article Number: 031803 Doi: 10.1103/Physreve.85.031803, 2012 ISSN 1550-7998

Binder, K ; Milchev, A ; Baschnagel, J :Simulation Studies On The Dynamics Of Polymers At Interfaces: Annual Review Of Materials Science, 26 pp.: 107-134 Doi: 10.1146/Annurev.Ms.26.080196.000543, 1996 ISSN: 0084-6600

- 320.** Katzenstein, Joshua M.; Janes, Dustin W.; Hocker, Haley E.; Et Al.: Nanoconfined Self-Diffusion Of Poly(Isobutyl Methacrylate) In Films With A Thickness-Independent Glass Transition : Macromolecules, 45 pp.: 1544-1552 Doi: 10.1021/Ma202362j, 2012 ISSN 0024-9297
- 321.** Ndoro, Tinashe V. M.; Boehm, Michael C.; Mueller-Plathe, Florian : Interface And Interphase Dynamics Of Polystyrene Chains Near Grafted And Ungrafted Silica Nanoparticles : Macromolecules, 45 pp.: 171-179 Doi: 10.1021/Ma2020613, 2012 ISSN 0024-9297
- 322.** Opferman, Michael G.; Coalson, Rob D.; Jasnow, David; Et Al.: Morphological Control Of Grafted Polymer Films Via Attraction To Small Nanoparticle Inclusions: Physical Review E, 86 Article Number: 031806 Doi: 10.1103/Physreve.86.031806, 2012 ISSN 1550-7998
- 323.** Lee, Thomas; Hendy, Shaun C.; Neto, Chiara : Interfacial Flow Of Simple Liquids On Polymer Brushes: Effect Of Solvent Quality And Grafting Density :Macromolecules, 45 pp.: 6241-6252 Doi: 10.1021/Ma300880y, 2012 ISSN 0024-9297
- 324.** Popescu, M. N.; Oshanin, G.; Dietrich, S.; Et Al. : Precursor Films In Wetting Phenomena : Journal Of Physics-Condensed Matter, 24 Article Number: 243102 Doi: 10.1088/0953-8984/24/24/243102, 2012 ISSN 0953-8984
- 325.** irardo, Salvatore; Palpacelli, Silvia; De Maio, Alessandro; Et Al. : Interplay Between Shape And Roughness In Early-Stage Microcapillary Imbibition : G Langmuir, 28 pp.: 2596-2603 Doi: 10.1021/La2045724, Feb 7 2012 ISSN 0743-7463
- 326.** Chauvet, Fabien; Geoffroy, Sandrine; Hamoumi, Abdelkrim; Et Al. : Roles Of Gas In Capillary Filling Of Nanoslits : Soft Matter, 8 pp.: 10738-10749 Doi: 10.1039/C2sm25982f, 2012 ISSN 1744-683X

Chibbaro, S. ; Biferale, L. ; Binder, K. ; Et Al. Hydrokinetic Simulations Of Nanoscopic Precursor Films In Rough Channels, Journal Of Statistical Mechanics-Theory And Experiment Article Number: P06007 Doi: 10.1088/1742-5468/2009/06/P06007, 2009 ISSN 1742-5468

- 327.** Esmaili, E.; Moosavi, A.; Mazloomi, A. : The Dynamics Of Wettability Driven Droplets In Smooth And Corrugated Microchannels : Journal Of Statistical Mechanics-Theory And Experiment Article Number: P10005 Doi: 10.1088/1742-5468/2012/10/P10005, 2012 ISSN 1742-5468

Chibbaro, S. ; Costa, E. ; Dimitrov, D. I. ; Et Al.:Capillary Filling In Microchannels With Wall Corrugations: A Comparative Study Of The Concus-Finn Criterion By

Continuum, Kinetic, And Atomistic Approaches: Langmuir, 25 pp.: 12653-12660 Doi: 10.1021/La901993r, 2009 ISSN 0743-7463

328. Ma, Yongting; Bhattacharya, Amitabh; Kuksenok, Olga; Et Al.: Modeling The Transport Of Nanoparticle-Filled Binary Fluids Through Micropores : Langmuir, 28 pp.: 11410-11421 Doi: 10.1021/La301676f, 2012 ISSN 0743-7463
329. Dutka, F.; Napiorkowski, M.; Dietrich, S. : Mesoscopic Analysis Of Gibbs' Criterion For Sessile Nanodroplets On Trapezoidal Substrates : Journal Of Chemical Physics, 136 Article Number: 064702 Doi: 10.1063/1.3682775, Feb 14 2012 ISSN · 0021-9606
330. Girardo, Salvatore; Palpacelli, Silvia; De Maio, Alessandro; Et Al.: Interplay Between Shape And Roughness In Early-Stage Microcapillary Imbibition: Langmuir, 28 pp.: 2596-2603 Doi: 10.1021/La2045724, 2012 ISSN 0743-7463

Corsi, Andrea ; Milchev, Andrey ; Rostashvili, Vakhtang G. ; Et Al. :Interface Stability And Copolymers: Application To Food Systems : Food Hydrocolloids, 21 pp.: 870-878 Doi: 10.1016/J.Foodhyd.2006.08.012, 2007 ISSN: 0268-005X

331. Van Der Sman, R. G. M.: Soft Matter Approaches To Food Structuring :Advances In Colloid And Interface Science, 176 pp.: 18-30 Doi: 10.1016/J.Cis.2012.04.002, 2012 ISSN 1744-683X

Corsi, A ; Milchev, A ; Rostashvili, Vg ; Et Al. : Localization Of A Multiblock Copolymer At A Selective Interface: Scaling Predictions And Monte Carlo Verification : Journal Of Chemical Physics, 122 Article Number: 094907 Doi: 10.1063/1.1854133, 2005 ISSN · 0021-9606

332. Lu, Yanping; Zhang, Xinghong; Fan, Zhiqiang; Et Al.: Adsorption Of Pnipam110-Peo100-Ppo65-Peo100-Pnipam110 Pentablock Terpolymer On Hydrophobic Gold: Polymer, 53 pp.: 3791-3801 Doi: 10.1016/J.Polymer.2012.06.022, 2 2012 ISSN: 0032-3861
333. Lanotte, Luca; Guido, Stefano; Misbah, Chaouqi; Et Al.: Flow Reduction In Microchannels Coated With A Polymer Brush: Langmuir, 28 pp.: 13758-13764 Doi: 10.1021/La302171a, 2012 ISSN 0743-7463
334. Lee, Thomas; Hendy, Shaun C.; Neto, Chiara : Interfacial Flow Of Simple Liquids On Polymer Brushes: Effect Of Solvent Quality And Grafting Density : Macromolecules, 45 pp.: 6241-6252 Doi: 10.1021/Ma300880y, 2012 ISSN 0024-9297

- 335.** Zhang, Zhao; Zuo, Chuncheng; Cao, Qianqian; Et Al.: Modulation Of Electroosmotic Flow Using Polyelectrolyte Brushes: A Molecular Dynamics Study: Macromolecular Theory And Simulations, 21 pp.: 145-152 Doi: 10.1002/Mats.201100081, 2012 ISSN: 1022-1344
- 336.** Li, Nan; Zuo, Chuncheng; Cao, Qianqian: Nanopores With Solvent-Sensitive Polymer Brushes: A Dissipative Particle Dynamics Simulation: Journal Of Macromolecular Science Part B-Physics, 51 pp.: 275-287 Doi: 10.1080/00222348.2011.596776, 2012 ISSN 0022-2348

Dimitrov, D. I. ; Milchev, A. ; Binder, Kurt ; Et Al.: Universal Properties Of A Single Polymer Chain In Slit: Scaling Versus Molecular Dynamics Simulations: Journal Of Chemical Physics, 128 Article Number: 234902 Doi: 10.1063/1.2936124, 2008 ISSN: 0021-9606

- 337.** Benkova, Zuzana; Cifra, Peter: Simulation Of Semiflexible Cyclic And Linear Chains Moderately And Strongly Confined In Nanochannels: Macromolecules, 45 pp.: 2597-2608 Doi: 10.1021/Ma202730c, 2012 ISSN 0024-9297
- 338.** Micheletti, Cristian; Orlandini, Enzo :Numerical Study Of Linear And Circular Model Dna Chains Confined In A Slit: Metric And Topological Properties : Macromolecules, 45 pp.: 2113-2121 Doi: 10.1021/Ma202503k, 2012 ISSN 0024-9297
- 339.** Cifra, Peter: Weak-To-Strong Confinement Transition Of Semi-Flexible Macromolecules In Slit And In Channel: Journal Of Chemical Physics, 136 Article Number: 024902 Doi: 10.1063/1.3674304, 2012 ISSN · 0021-9606

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 Article Number: 084905 Doi: 10.1063/1.2768525, 2007 ISSN: 0021-9606

- 340.** He, Lipeng; Bi, Shuai; Wang, Hui; Et Al. : Fusogenic Metallosupramolecular Brush Vesicles : Langmuir, 28 pp.: 14164-14171 Doi: 10.1021/La303008c, 2012 ISSN 0743-7463
- 341.** Lee, Thomas; Hendy, Shaun C.; Neto, Chiara : Interfacial Flow Of Simple Liquids On Polymer Brushes: Effect Of Solvent Quality And Grafting Density : Macromolecules, 45 pp.: 6241-6252 Doi: 10.1021/Ma300880y, 2012 ISSN 0024-9297
- 342.** Raghu, Riyad Chetram; Schofield, Jeremy : Simulation Of Tethered Oligomers In Nanochannels Using Multi-Particle Collision Dynamics :Journal Of Chemical Physics , 137 Article Number: 014901 Doi: 10.1063/1.4731662, 2012 ISSN · 0021-9606

- 343.** Zhang, Pengfei; Li, Baohui; Wang, Qiang : Quantitative Study Of Fluctuation Effects By Fast Lattice Monte Carlo Simulations. Iii. Homopolymer Brushes In An Explicit Solvent: Macromolecules, 45 pp.: 2537-2550 Doi: 10.1021/Ma202454s, 2012 ISSN 0024-9297
- 344.** Rossi, Giulia; Elliott, Ian G.; Ala-Nissila, Tapio; Et Al. : Molecular Dynamics Study Of A Martini Coarse-Grained Polystyrene Brush In Good Solvent: Structure And Dynamics : Macromolecules, 45 pp.: 563-571 Doi: 10.1021/Ma201980k, 2012 ISSN 0024-9297
- 345.** Li, Ang; Ramakrishna, Shivaprakash N.; Kooij, E. Stefan; Et Al. : Poly(Acrylamide) Films At The Solvent-Induced Glass Transition: Adhesion, Tribology, And The Influence Of Crosslinking : Soft Matter, 8 pp.: 9092-9100 Doi: 10.1039/C2sm26222c, 2012 ISSN 1744-683X
- 346.** Cao, Qianqian; Zuo, Chuncheng; Li, Lujuan; Et Al. : Modulation Of Electroosmotic Flow By Electric Field-Responsive Polyelectrolyte Brushes: A Molecular Dynamics Study : Microfluidics And Nanofluidics, 12 pp.: 649-655 Doi: 10.1007/S10404-011-0865-7, 2012 ISSN: 1613-4982

Dimitrov, D. I. ; Milchev, A. ; Binder, K. : Polymer Brushes In Cylindrical Pores: Simulation Versus Scaling Theory : Journal Of Chemical Physics, 125 Article Number: 034905 Doi: 10.1063/1.2211615, 2006 ISSN · 0021-9606

- 347.** Nunnery, Grady A.; Jacob, Karl I.; Tannenbaum, Rina : Reactive Adsorption Of Ps-Pmma Block Copolymers On Concave Alumina Surfaces : Langmuir, 28 pp.: 14960-14967 Doi: 10.1021/La303216n, 2012 ISSN 0743-7463
- 348.** Osmanovic, Dino; Bailey, Joe; Harker, Anthony H.; Et Al. : Bistable Collective Behavior Of Polymers Tethered In A Nanopore : Physical Review E, 85 Article Number: 061917 Doi: 10.1103/Physreve.85.061917, 2012 ISSN 1550-7998
- 349.** Tagliazucchi, Mario; Szleifer, Igal : Stimuli-Responsive Polymers Grafted To Nanopores And Other Nano-Curved Surfaces: Structure, Chemical Equilibrium And Transport :Soft Matter, 8 pp.: 7292-7305 Doi: 10.1039/C2sm25777g, 2012 ISSN 1744-683X
- 350.** Li, Nan; Zuo, Chuncheng; Cao, Qianqian :Nanopores With Solvent-Sensitive Polymer Brushes: A Dissipative Particle Dynamics Simulation : Journal Of Macromolecular Science Part B-Physics, 51 pp.: 275-287 Doi: 10.1080/00222348.2011.596776, 2012 ISSN 0022-2348

- 351.** Egorov, S. A., Microphase Separation Of Mixed Polymer Brushes Physisorbed On Cylindrical Surfaces Soft Matter, 8 pp.: 3971-3979 Doi: 10.1039/C2sm07266a, 2012 ISSN 1744-683X

Dimitrov, D. I. ; Milchev, A. ; Binder, K. :Molecular Dynamics Simulations Of Capillary Rise Experiments In Nanotubes Coated With Polymer Brushes Langmuir, 24 pp.: 1232-1239 Doi: 10.1021/La7019445, 19 2008 ISSN 0743-7463

- 352.** Zhang, Zhao; Zuo, Chuncheng; Cao, Qianqian; Et Al.: Modulation Of Electroosmotic Flow Using Polyelectrolyte Brushes: A Molecular Dynamics Study : Macromolecular Theory And Simulations, 21 pp.: 145-152 Doi: 10.1002/Mats.201100081, 2012 ISSN: 1022-1344

- 353.** Li, Nan; Zuo, Chuncheng; Cao, Qianqian :Nanopores With Solvent-Sensitive Polymer Brushes: A Dissipative Particle Dynamics Simulation: Journal Of Macromolecular Science Part B-Physics, 51 pp.: 275-287 Doi: 10.1080/00222348.2011.596776, 2012 ISSN 0022-2348

Dimitrov, Dimitar I. ; Milchev, Andrey: Local Viscosity In The Vicinity Of A Wall Coated By Polymer Brush From Green-Kubo Relations; Binder, Kurt : Macromolecular Theory And Simulations, 17 pp.: 313-318 Doi: 10.1002/Mats.200800038, 2008 ISSN: 1022-1344

- 354.** Hoang, Hai; Galliero, Guillaume: Shear Viscosity Of Inhomogeneous Fluids: Journal Of Chemical Physics, 136 Article Number: 124902 Doi: 10.1063/1.3696898, 2012 ISSN · 0021-9606

Dimitrov, Dimitar I. ; Milchev, Andrey ; Binder, Kurt ; Et Al. : Structure Of Polymer Brushes In Cylindrical Tubes: A Molecular Dynamics Simulation: Macromolecular Theory And Simulations, 15 pp.: 573-583 Doi: 10.1002/Mats.200600029, 2006, ISSN: 1022-1344

- 355.** Cao, Qianqian; Zuo, Chuncheng; Li, Lujuan; Et Al. : Translocation Of Nanoparticles Through A Polymer Brush-Modified Nanochannel: Biomicrofluidics, 6 Article Number: 034101 Doi: 10.1063/1.4732799, 2012 ISSN:1932-1058

- 356.** Zhang, Zhao; Zuo, Chuncheng; Cao, Qianqian; Et Al. : Modulation Of Electroosmotic Flow Using Polyelectrolyte Brushes: A Molecular Dynamics Study : Macromolecular Theory And Simulations, 21 pp.: 145-152 Doi: 10.1002/Mats.201100081, 2012 ISSN: 1022-1344

- 357.** Li, Nan; Zuo, Chuncheng; Cao, Qianqian :Nanopores With Solvent-Sensitive Polymer Brushes: A Dissipative Particle Dynamics Simulation : Journal Of Macromolecular Science Part B-Physics, 51 pp.: 275-287 Doi: 10.1080/00222348.2011.596776, 2012 ISSN 0022-2348

- 358.** Egorov, S. A. :Microphase Separation Of Mixed Polymer Brushes Physisorbed On Cylindrical Surfaces , Soft Matter, 8 pp.: 3971-3979 Doi: 10.1039/C2sm07266a, 2012 ISSN 1744-683X

Dimitrov, D. I. ; 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 pp.: 1867-1869 Doi: 10.1039/B719248g, 2008 ISSN 1463-9076

- 359.** Marchetti, Patrizia; Butte, Alessandro; Livingston, Andrew G. : An Improved Phenomenological Model For Prediction Of Solvent Permeation Through Ceramic Nf And Uf Membranes :Journal Of Membrane Science, 415 pp.: 444-458 Doi: 10.1016/J.Memsci.2012.05.030, 2012. ISSN 0376-7388

Dimitrov, D. I. ; Milchev, A. ; Binder, K. :Method For Wettability Characterization Based On Contact Line Pinning: Physical Review E, 81 Article Number: 041603 Doi: 10.1103/Physreve.81.041603 Part: Part 1, 2010 ISSN 1550-7998

- 360.** Marmur, Abraham : Hydro- Hygro- Oleo- Omni-Phobic? Terminology Of Wettability Classification : Soft Matter, 8 pp.: 6867-6870 Doi: 10.1039/C2sm25443c, 2012 ISSN 1744-683X

Dimitrov, D. I. ; Milchev, A. ; Binder, K. :Capillary Rise In Nanopores: Molecular Dynamics Evidence For The Lucas-Washburn Equation : Physical Review Letters, 99 Article Number: 054501 Doi: 10.1103/Physrevlett.99.054501, 2007 ISSN. 0031-9007

- 361.** Stroberg, Wylie; Keten, Sinan; Liu, Wing Kam : Hydrodynamics Of Capillary Imbibition Under Nanoconfinement : Langmuir, 28 pp.: 14488-14495 Doi: 10.1021/La302292w, 2012 ISSN 0743-7463

- 362.** Dhondi, Srikanth; Pereira, G. G.; Hendy, Shaun C. : Effect Of Molecular Weight On The Capillary Absorption Of Polymer Droplets : Langmuir, 28 pp.: 10256-10265 Doi: 10.1021/La300903w, 2012 ISSN 0743-7463

- 363.** Luis; Juanes, Ruben :Macroscopic Phase-Field Model Of Partial Wetting: Bubbles In A Capillary Tube: Cueto-Felgueroso, Physical Review Letters, 108 Article Number: 144502 Doi: 10.1103/Physrevlett.108.144502, 2012 ISSN. 0031-9007

- 364.** Waghmare, Prashant R.; Mitra, Sushanta K. :A Comprehensive Theoretical Model Of Capillary Transport In Rectangular Microchannels : Microfluidics And Nanofluidics, 12 pp.: 53-63 Doi: 10.1007/S10404-011-0848-8 , 2012 ISSN: 1613-4982

Dubbeldam, J. L. A., Milchev, A., Rostashvili, V. G. ; Et Al.: Driven Polymer Translocation Through A Nanopore: A Manifestation Of Anomalous Diffusion: Epl, 79 Article Number: 18002 Doi: 10.1209/0295-5075/79/18002, 2007 ISSN 0295-5075

- 365.** Luo, Meng-Bo; Cao, Wei-Ping : Influence Of Polymer-Pore Interaction On The Translocation Of A Polymer Through A Nanopore : Physical Review E, 86 Article Number: 031914 Doi: 10.1103/Physreve.86.031914 , 2012 ISSN 1550-7998
- 366.** Ikonen, T.; Bhattacharya, A.; Ala-Nissila, T.; Et Al. : Influence Of Non-Universal Effects On Dynamical Scaling In Driven Polymer Translocation : Journal Of Chemical Physics, 137 Article Number: 085101 Doi: 10.1063/1.4742188, 2012 ISSN · 0021-9606
- 367.** Qian, Hong; Sun, Li-Zhen; Luo, Meng-Bo : Simulation Study On The Translocation Of A Partially Charged Polymer Through A Nanopore:Journal Of Chemical Physics, 137 Article Number: 034903 Doi: 10.1063/1.4737929 , 2012 ISSN · 0021-9606
- 368.** Saito, Takuya; Sakaue, Takahiro: Process Time Distribution Of Driven Polymer Transport: Physical Review E, 85 Article Number: 061803 Doi: 10.1103/Physreve.85.061803 , Jun 14 2012 ISSN 1550-7998
- 369.** Ikonen, Timo; Shin, Jaeoh; Sung, Wokyung; Et Al. :Polymer Translocation Under Time-Dependent Driving Forces: Resonant Activation Induced By Attractive Polymer-Pore Interactions: Journal Of Chemical Physics, 136 Article Number: 205104 Doi: 10.1063/1.4722080, 2012 ISSN · 0021-9606
- 370.** Zhang, Kehong; Luo, Kaifu : Dynamics Of Polymer Translocation Into A Circular Nanocontainer Through A Nanopore : Journal Of Chemical Physics, 136 Article Number: 185103 Doi: 10.1063/1.4712618, 2012 ISSN · 0021-9606
- 371.** Ikonen, T.; Bhattacharya, A.; Ala-Nissila, T.; Et Al. : Unifying Model Of Driven Polymer Translocation : Physical Review E, 85 Article Number: 051803 Doi: 10.1103/Physreve.85.051803, 2012 ISSN 1550-7998
- 372.** De Haan, Hendrick W.; Slater, Gary W. : Memory Effects During The Unbiased Translocation Of A Polymer Through A Nanopore : Journal Of Chemical Physics, 136 Article Number: 154903 Doi: 10.1063/1.3699979, 2012 ISSN 0021-9606
- 373.** Edmonds, Christopher M.; Hudiono, Yeny C.; Ahmadi, Amir G.; Et Al. : Polymer Translocation In Solid-State Nanopores: Dependence Of Scaling Behavior On Pore Dimensions And Applied Voltage : Journal Of Chemical

Physics, 136 Article Number: 065105 Doi: 10.1063/1.3682777, 2012 ISSN 0021-9606

- 374.** Li, Xuejin; Li, Xiaolong; Deng, Mingge; Et Al. : Effects Of Electrostatic Interactions On The Translocation Of Polymers Through A Narrow Pore Under Different Solvent Conditions: A Dissipative Particle Dynamics Simulation Study : Macromolecular Theory And Simulations, 21 pp.: 120-129 Doi: 10.1002/Mats.201100079, 2012 ISSN: 1022-1344
- 375.** Yong, Huaisong; Wang, Yilin; Yuan, Shichen; Et Al. : Driven Polymer Translocation Through A Cylindrical Nanochannel: Interplay Between The Channel Length And The Chain Length : Soft Matter, 8 pp.: 2769-2774 Doi: 10.1039/C2sm06942c, 2012 ISSN 1744-683X

Dubbeldam, J. L. A. ; Milchev, A. ; Rostashvili, V. G. ; Et Al. : JComment On 'Anomalous Dynamics Of Unbiased Polymer Translocation Through A Narrow Pore' And Other Recent Papers By D Panja, G Barkema And R Ball : ournal Of Physics-Condensed Matter, 21 Article Number: 098001 Doi: 10.1088/0953-8984/21/9/098001, 2009 ISSN 0953-8984

- 376.** Zhang, Kehong; Luo, Kaifu : J Dynamics Of Polymer Translocation Into A Circular Nanocontainer Through A Nanopore : ournal Of Chemical Physics, 136 Article Number: 185103 Doi: 10.1063/1.4712618, 2012 ISSN 0021-9606
- 377.** De Haan, Hendrick W.; Slater, Gary W. : Memory Effects During The Unbiased Translocation Of A Polymer Through A Nanopore : Journal Of Chemical Physics, 136 Article Number: 154903 Doi: 10.1063/1.3699979, 2012 ISSN · 0021-9606

J L A ; Milchev, A ; Rostashvili, V G ; Et Al. :Polymer Translocation Through A Nanopore: A Showcase Of Anomalous Diffusion : Dubbeldam, Physical Review. E, Statistical, Nonlinear, And Soft Matter Physics, 76 pp.: 010801 Doi: 10.1103/Physreve.76.010801, 2007 ISSN 1744-683X

- 378.** Feng Jian; Shang Yazhuo; Zhou Lihui; Et Al.: Translocation Of Polymer Through A Nanopore Studied By Langevin Dynamics: Effect Of The Friction Coefficient: Chinese Journal Of Chemical Engineering , 20 pp.: 231-238, 2012 ISSN: 1004-9541

Dubbeldam, J. L. A. ; Milchev, A. ; Rostashvili, V. G. ; Et Al. : Polymer Translocation Through A Nanopore: A Showcase Of Anomalous Diffusion: Physical Review E, 76 Article Number: 010801 Doi: 10.1103/Physreve.76.010801 , 2007 ISSN 1550-7998

- 379.** Rasmussen, Christopher J.; Vishnyakov, Aleksey; Neimark, Alexander V. : Translocation Dynamics Of Freely Jointed Lennard-Jones Chains Into

Adsorbing Pores : Journal Of Chemical Physics, 137 Article Number: 144903 Doi: 10.1063/1.4754632, 2012 ISSN · 0021-9606

380. Luo, Meng-Bo; Cao, Wei-Ping : Influence Of Polymer-Pore Interaction On The Translocation Of A Polymer Through A Nanopore :Physical Review E, 86 Article Number: 031914 Doi: 10.1103/Physreve.86.031914 , 2012 ISSN 1550-7998
381. Qian, Hong; Sun, Li-Zhen; Luo, Meng-Bo : Simulation Study On The Translocation Of A Partially Charged Polymer Through A Nanopore :Journal Of Chemical Physics, 137 Article Number: 034903 Doi: 10.1063/1.4737929 , 2012 ISSN · 0021-9606
382. De Haan, Hendrick W.; Slater, Gary W. : Using An Incremental Mean First Passage Approach To Explore The Viscosity Dependent Dynamics Of The Unbiased Translocation Of A Polymer Through A Nanopore : Journal Of Chemical Physics, 136 Article Number: 204902 Doi: 10.1063/1.4711865, 2012 ISSN 0021-9606
383. Ikonen, Timo; Shin, Jaeoh; Sung, Wokyung; Et Al. : Polymer Translocation Under Time-Dependent Driving Forces: Resonant Activation Induced By Attractive Polymer-Pore Interactions : Journal Of Chemical Physics, 136 Article Number: 205104 Doi: 10.1063/1.4722080, 2012 ISSN · 0021-9606
384. De Haan, Hendrick W.; Slater, Gary W. : Memory Effects During The Unbiased Translocation Of A Polymer Through A Nanopore : Journal Of Chemical Physics, 136 Article Number: 154903 Doi: 10.1063/1.3699979, 2012 ISSN 0021-9606
385. Feng Jian; Shang Yazhuo; Zhou Lihui; Et Al. : Translocation Of Polymer Through A Nanopore Studied By Langevin Dynamics: Effect Of The Friction Coefficient : Chinese Journal Of Chemical Engineering, 20 pp.: 231-238, 2012 ISSN: 1004-9541
386. Luchko, Yuri : Initial-Boundary-Value Problems For The One-Dimensional Time-Fractional Diffusion Equation : Fractional Calculus And Applied Analysis, 15 pp.: 141-160 Doi: 10.2478/S13540-012-0010-7, 2012 ISSN: 1311-0454
387. Edmonds, Christopher M.; Hudiono, Yeny C.; Ahmadi, Amir G.; Et Al. : Polymer Translocation In Solid-State Nanopores: Dependence Of Scaling Behavior On Pore Dimensions And Applied Voltage : Journal Of Chemical Physics, 136 : 6 Article Number: 065105 Doi: 10.1063/1.3682777, 2012 ISSN · 0021-9606

- 388.** Yong, Huaisong; Wang, Yilin; Yuan, Shichen; Et Al. : Driven Polymer Translocation Through A Cylindrical Nanochannel: Interplay Between The Channel Length And The Chain Length : *Soft Matter*, 8 pp.: 2769-2774
Doi: 10.1039/C2sm06942c, 2012 ISSN 1744-683X

Dubbeldam, J. L. A. ; Rostashvili, V. G. ; Milchev, A. ; Et Al. :Forced Translocation Of A Polymer: Dynamical Scaling Versus Molecular Dynamics Simulation : Physical Review E, 85 Article Number: 041801 Doi: 10.1103/Physreve.85.041801 , 2012 ISSN 1550-7998

- 389.** Rasmussen, Christopher J.; Vishnyakov, Aleksey; Neimark, Alexander V. : Translocation Dynamics Of Freely Jointed Lennard-Jones Chains Into Adsorbing Pores :*Journal Of Chemical Physics*, 137 Article Number: 144903
Doi: 10.1063/1.4754632, 2012 ISSN · 0021-9606
- 390.** Luo, Meng-Bo; Cao, Wei-Ping : Influence Of Polymer-Pore Interaction On The Translocation Of A Polymer Through A Nanopore : *Physical Review E*, 86 : 3 Article Number: 031914 Doi: 10.1103/Physreve.86.031914 , 2012 ISSN 1550-7998
- 391.** Ikonen, T.; Bhattacharya, A.; Ala-Nissila, T.; Et Al. : Influence Of Non-Universal Effects On Dynamical Scaling In Driven Polymer Translocation : *Journal Of Chemical Physics*, 137 Article Number: 085101 Doi: 10.1063/1.4742188, 2012 ISSN · 0021-9606
- 392.** Qian, Hong; Sun, Li-Zhen; Luo, Meng-Bo : Simulation Study On The Translocation Of A Partially Charged Polymer Through A Nanopore : *Journal Of Chemical Physics*, 137 Article Number: 034903 Doi: 10.1063/1.4737929, 2012 ISSN · 0021-9606
- 393.** Saito, Takuya; Sakaue, Takahiro : Process Time Distribution Of Driven Polymer Transport : *Physical Review E*, 85 Article Number: 061803 Doi: 10.1103/Physreve.85.061803 , 2012 ISSN 1550-7998
- 394.** Ikonen, T.; Bhattacharya, A.; Ala-Nissila, T.; Et Al. : Unifying Model Of Driven Polymer Translocation : *Physical Review E*, 85 Article Number: 051803 Doi: 10.1103/Physreve.85.051803, 2012 ISSN 1550-7998
- 395.** Linna, R. P.; Kaski, K. Event Distributions Of Polymer Translocation : *Physical Review E*, 85 Article Number: 041910 Doi: 10.1103/Physreve.85.041910, 2012 ISSN 1550-7998

Dubbeldam, J. L. A. ; Rostashvili, V. G. ; Milchev, A. ; Et Al. : Fractional Brownian Motion Approach To Polymer Translocation: The Governing Equation Of Motion : Physical Review E, 83 Article Number: 011802 Doi: 10.1103/Physreve.83.011802, 2011 ISSN 1550-7998

- 396.** Rasmussen, Christopher J.; Vishnyakov, Aleksey; Neimark, Alexander V. Translocation Dynamics Of Freely Jointed Lennard-Jones Chains Into Adsorbing Pores : Journal Of Chemical Physics, 137 Article Number: 144903 Doi: 10.1063/1.4754632, 2012 ISSN · 0021-9606
- 397.** Sandev, Trifce; Metzler, Ralf; Tomovski, Zivorad : Velocity And Displacement Correlation Functions For Fractional Generalized Langevin Equations :Fractional Calculus And Applied Analysis, 15 pp.: 426-450 Doi: 10.2478/S13540-012-0031-2, Sep 2012 ISSN: 1311-0454
- 398.** De Haan, Hendrick W.; Slater, Gary W. : Using An Incremental Mean First Passage Approach To Explore The Viscosity Dependent Dynamics Of The Unbiased Translocation Of A Polymer Through A Nanopore :Journal Of Chemical Physics, 136article Number: 204902 Doi: 10.1063/1.4711865, 2012 ISSN · 0021-9606
- 399.** De Haan, Hendrick W.; Slater, Gary W. : Memory Effects During The Unbiased Translocation Of A Polymer Through A Nanopore : Journal Of Chemical Physics, 136 Article Number: 154903 Doi: 10.1063/1.3699979, 2012 ISSN · 0021-9606
- 400.** Walter, J. -C.; Ferrantini, A.; Carlon, E.; Et Al. : Fractional Brownian Motion And The Critical Dynamics Of Zipping Polymers : Physical Review E, 85article Number: 031120 Doi: 10.1103/Physreve.85.031120 , 2012 ISSN 1550-7998

Everaers, R ; Milchev, A ; Yamakov, V :The Electrostatic Persistence Length Of Polymers Beyond The Osf Limit : European Physical Journal E, 8 pp.: 3-14 Doi: 10.1140/Epje/I2002-10007-3, 2002 ISSN: 1292-8941

- 401.** Cranford, Steven W.; Buehler, Markus J. : Variation Of Weak Polyelectrolyte Persistence Length Through An Electrostatic Contour Length : Macromolecules, 45 pp.: 8067-8082 Doi: 10.1021/Ma3008465, 2012 ISSN 0024-9297
- 402.** Stevens, Mark J.; McIntosh, Dustin B.; Saleh, Omar A. : Simulations Of Stretching A Strong, Flexible Polyelectrolyte : Macromolecules, 45 pp.: 5757-5765 Doi: 10.1021/Ma300899x, 2012 ISSN 0024-9297
- 403.** Bacova, P.; Kosovan, P.; Uhlik, F.; Et Al. :Double-Exponential Decay Of Orientational Correlations In Semiflexible Polyelectrolytes : European Physical Journal E, 35 Article Number: 53 Doi: 10.1140/Epje/I2012-12053-6, 2012 ISSN: 1292-8941

- 404.** Hsu, Hsiao-Ping; Binder, Kurt, Stretching Semiflexible Polymer Chains: Evidence For The Importance Of Excluded Volume Effects From Monte Carlo Simulation : Journal Of Chemical Physics, 136 Article Number: 024901 Doi: 10.1063/1.3674303, 2012 ISSN · 0021-9606
- 405.** Josef, Elinor; Bianco-Peled, Havazelet, Conformation Of A Natural Polyelectrolyte In Semidilute Solutions With No Added Salt: Soft Matter, 8 pp.: 9156-9165 Doi: 10.1039/C2sm25733e, 2012 ISSN 1744-683X

Febbo, M. ; Milchev, A. ; Rostashvili, V.; Et Al. :Dynamics Of A Stretched Nonlinear Polymer Chain : Journal Of Chemical Physics, 129 Article Number: 154908 Doi: 10.1063/1.2993136, 2008 ISSN · 0021-9606

- 406.** Borodin, Igor P.; Borodina, Tatyana I.; Khazanovich, Theodor N.: Specific Features Of Strain Dependences Of Loss Modulus In Highly Stretched Elastomers :Macromolecular Theory And Simulations, 21 pp.: 438-447 Doi: 10.1002/Mats.201100114, 2012 ISSN: 1022-1344
- 407.** Zhang, Qi-Yi; Xiang, Xun; Hu, Kai-Yan : Hysteresis Effect Of Single Double-End Anchored Polyelectrolyte In Ac Electric Field :Modern Physics Letters B, 26 Article Number: 1250089 Doi: 10.1142/S0217984912500893 , 2012 ISSN: 1793-6640

Lo Verso, Federica ; Egorov, Sergei A. ; Milchev, Andrey ; Et Al. :Spherical Polymer Brushes Under Good Solvent Conditions: Molecular Dynamics Results Compared To Density Functional Theory : Journal Of Chemical Physics, 133 Article Number: 184901 Doi: 10.1063/1.3494902, 2010 ISSN · 0021-9606

- 408.** Chai, Aihua; Zhang, Dong; Chen, Hongping; Et Al.: Collapse-Expansion Transition Of Elastic Shell Induced By Grafted Polymer Chains : Journal Of Polymer Science Part B-Polymer Physics, 50 pp.: 1480-1488 Doi: 10.1002/Polb.23144, 2012 ISSN: 0887-624X.
- 409.** Striolo, Alberto : Surface Adsorption Of Colloidal Brushes At Good Solvents Conditions : Journal Of Chemical Physics, 137 Article Number: 104703 Doi: 10.1063/1.4752195, 2012 ISSN · 0021-9606
- 410.** Tagliazucchi, Mario; Szleifer, Igal : Stimuli-Responsive Polymers Grafted To Nanopores And Other Nano-Curved Surfaces: Structure, Chemical Equilibrium And Transport : Soft Matter, 8 pp.: 7292-7305 Doi: 10.1039/C2sm25777g, 2012 ISSN 1744-683X

Milchev, A., Dimitrov, D. I., Binder, K., Polymer Brushes With Nanoinclusions Under Shear: A Molecular Dynamics Investigation: Biomicrofluidics, 4 Article Number: 032202 Doi: 10.1063/1.3396446, 2010 ISSN: 1932-1058

- 411.** Lee, Thomas; Hendy, Shaun C.; Neto, Chiara: Interfacial Flow Of Simple Liquids On Polymer Brushes: Effect Of Solvent Quality And Grafting Density : Macromolecules, 45 pp.: 6241-6252 Doi: 10.1021/Ma300880y, 2012 ISSN 0024-9297

Milchev, A ; Milchev, A ; Binder, K :Nanodroplets On A Solid Plane: Wetting And Spreading In A Monte Carlo Simulation, Computer Physics Communications, 146 pp.: 38-53 Article Number: Pii S0010-4655(02)00433-2 Doi: 10.1016/S0010-4655(02)00433-2, 2002 ISSN: 0010-4655.

- 412.** Cifra, Peter: Weak-To-Strong Confinement Transition Of Semi-Flexible Macromolecules In Slit And In Channel : Journal Of Chemical Physics, 136 Article Number: 024902 Doi: 10.1063/1.3674304, 2012 ISSN · 0021-9606 ISSN 0024-9297

- 413.** Cifra, Peter; Bleha, Tomas: Free Energy Of Polymers Confined In Open And Closed Cavities : Macromolecular Theory And Simulations, 21 pp.: 15-23 Doi: 10.1002/Mats.201100061, 2012 ISSN: 1022-1344

Milchev, A ; Binder, K : A Polymer Chain Trapped Between Two Parallel Repulsive Walls: A Monte-Carlo Test Of Scaling Behavior : European Physical Journal B, 3 pp.: 477-484 Doi: 10.1007/S100510050338, Jun 1998 ISSN: 0021-9606,

- 414.** De Virgiliis, Andres; Kuban, Lukasz; Paturej, Jaroslaw; Et Al.: Unexpected Crossover Dynamics Of Single Polymer In A Corrugated Tube : Journal Of Chemical Physics, 137 Article Number: 114902 Doi: 10.1063/1.4752767, 2012 ISSN · 0021-9606

Milchev, A ; Muller, M ; Binder, K : A New Boundary-Controlled Phase Transition: Phase Separation In An Ising Bi-Pyramid With Competing Surface Fields : Europhysics Letters, 70 pp.: 348-354 Doi: 10.1209/Epl/I2005-10009-3, 2005 ISSN 0295-5075

- 415.** Parry, Andrew O.; Rascon, Carlos : Scaling Properties Of Fluid Adsorption Near The Base Of A Cylinder : Physical Review E, 85 Article Number: 031606 Doi: 10.1103/Physreve.85.031606 Part: Part 1, Mar 30 2012 ISSN 1550-7998

Milchev, A. ; Egorov, S. A. ; Binder, K. : Absorption/Expulsion Of Oligomers And Linear Macromolecules In A Polymer Brush: Journal Of Chemical Physics, 132 Article Number: 184905 Doi: 10.1063/1.3414996, 2010 ISSN · 0021-9606 ISSN 0024-9297

- 416.** Borowko, M.; Sokolowski, S.; Staszewski, T. : Adsorption From Oligomer-Monomer Solutions On The Surfaces Modified With End-Grafted Chains : Journal Of Physical Chemistry B, 116 pp.: 12842-12849 Doi: 10.1021/Jp305624n, 2012 ISSN 1520-6106

417. Qin, Sheng; Tang, Xuefeng; Zhu, Lifei; Et Al. : Viscoelastic Signature Of Physisorbed Macromolecules At The Solid-Liquid Interface : Journal Of Colloid And Interface Science, 383 pp.: 208-214 Doi: 10.1016/J.Jcis.2012.06.031, 2012 ISSN 0024-9297

418. Borowko, M.; Sokolowski, S.; Staszewski, T. : Adsorption From Binary Solutions On The Polymer-Tethered Surfaces : Journal Of Physical Chemistry B, 116 pp.: 3115-3124 Doi: 10.1021/Jp300114y, 2012 ISSN 1520-6106

Milchev, A ; Binder, K ; Bhattacharya, A :Polymer Translocation Through A Nanopore Induced By Adsorption: Monte Carlo Simulation Of A Coarse-Grained Model : Journal Of Chemical Physics, 121 pp.: 6042-6051 Doi: 10.1063/1.1785776, 2004 ISSN · 0021-9606

419. Rasmussen, Christopher J.; Vishnyakov, Aleksey; Neimark, Alexander V. : Translocation Dynamics Of Freely Jointed Lennard-Jones Chains Into Adsorbing Pores : Journal Of Chemical Physics, 137 Article Number: 144903 Doi: 10.1063/1.4754632, 2012 ISSN · 0021-9606

420. Luo, Meng-Bo; Cao, Wei-Ping : Influence Of Polymer-Pore Interaction On The Translocation Of A Polymer Through A Nanopore :Physical Review E, 86 Article Number: 031914 Doi: 10.1103/Physreve.86.031914, 2012 ISSN 1550-7998

421. Cao, Wei-Ping; Wang, Chao; Sun, Li-Zhen; Et Al. : Effects Of An Attractive Wall On The Translocation Of Polymer Under Driving : Journal Of Physics-Condensed Matter, 24 Article Number: 325104 Doi: 10.1088/0953-8984/24/32/325104, 2012 ISSN 0953-8984

422. Mirigian, Stephen; Wang, Yanbo; Muthukumar, Murugappan : Translocation Of A Heterogeneous Polymer : Journal Of Chemical Physics, 137 Article Number: 064904 Doi: 10.1063/1.4742970, 2012 ISSN · 0021-9606

423. Yang, Shuang; Neimark, Alexander V. : Adsorption-Driven Translocation Of Polymer Chain Into Nanopores : Journal Of Chemical Physics, 136 Article Number: 214901 Doi: 10.1063/1.4720505, 2012 ISSN · 0021-9606

424. Cohen, Jack A.; Chaudhuri, Abhishek; Golestanian, Ramin : Stochastic Sensing Of Polynucleotides Using Patterned Nanopores : Physical Review X, 2 Article Number: 021002 Doi: 10.1103/Physrevx.2.021002, 2012 ISSN 0031-9007

425. Edmonds, Christopher M.; Hudiono, Yeny C.; Ahmadi, Amir G.; Et Al. : Polymer Translocation In Solid-State Nanopores: Dependence Of Scaling Behavior On Pore Dimensions And Applied Voltage : Journal Of Chemical

Physics, 136 Article Number: 065105 Doi: 10.1063/1.3682777, 2012 ISSN · 0021-9606

426. Yong, Huaisong; Wang, Yilin; Yuan, Shichen; Et Al. : Driven Polymer Translocation Through A Cylindrical Nanochannel: Interplay Between The Channel Length And The Chain Length :Soft Matter, 8 pp.: 2769-2774 Doi: 10.1039/C2sm06942c, 2012 ISSN 1744-683X

Milchev, A; Binder, K :Polymer Nanodroplets Adsorbed On Nanocylinders: A Monte Carlo Study: Journal Of Chemical Physics, 117 : 14 pp.: 6852-6862 Doi: 10.1063/1.1505022, 2002 ISSN · 0021-9606

427. Arkin, Handan; Janke, Wolfhard : Ground-State Properties Of A Polymer Chain In An Attractive Sphere : Journal Of Physical Chemistry B, 116 pp.: 10379-10386 Doi: 10.1021/Jp304844k, 2012 ISSN 1520-6106

Milchev, A ; Binder, K Droplet Spreading: A Monte Carlo Test Of Tanner's Law : Journal Of Chemical Physics, 116 pp.: 7691-7694 Doi: 10.1063/1.1456410, 2002 ISSN · 0021-9606

428. Cormier, Sara L.; Mcgraw, Joshua D.; Salez, Thomas; Et Al. : Beyond Tanner's Law: Crossover Between Spreading Regimes Of A Viscous Droplet On An Identical Film Physical Review Letters, 109 Article Number: 154501 Doi: 10.1103/Physrevlett.109.154501, 2012 ISSN. 0031-9007

429. Popescu, M. N.; Oshanin, G.; Dietrich, S.; Et Al. : Precursor Films In Wetting Phenomena : Journal Of Physics-Condensed Matter, 24 Article Number: 243102 Doi: 10.1088/0953-8984/24/24/243102 , 2012 ISSN 0953-8984

430. Hur, Su-Mi; Garcia-Cervera, Carlos J.; Fredrickson, Glenn H. :Chebyshev Collocation In Polymer Field Theory: Application To Wetting Phenomena : Macromolecules, 45 pp.: 2905-2919 Doi: 10.1021/Ma202427n, 2012 ISSN 0024-9297

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 pp.: 1978-1989 Doi: 10.1063/1.473341, 1997 ISSN · 0021-9606

431. Trung Dac Nguyen; Fuentes-Cabrera, Miguel; Fowlkes, Jason D.; Et Al. : Competition Between Collapse And Breakup In Nanometer-Sized Thin Rings Using Molecular Dynamics And Continuum Modeling : Langmuir, 28:39 pp.: 13960-13967 Doi: 10.1021/La303093f, 2012 ISSN 0743-7463

432. Mu, Dan; Li, Jian-Quan; Wang, Song; Et Al. :Molecular Dynamics Simulation Of The Adsorption And Diffusion Of A Single

Polydimethylsiloxane Polymer Chain On A Silicon (111) Surface : Journal Of Theoretical & Computational Chemistry, 11 pp.: 697-708 Doi: 10.1142/S0219633612500460, 2012 ISSN: 0219-6336

Milchev, A ; Landau, Dp :Adsorption Of Living Polymers On A Solid Surface: A Monte Carlo Simulation: Journal Of Chemical Physics, 104 pp.: 9161-9168 Doi: 10.1063/1.471448, 1996 ISSN · 0021-9606

433. Kuppa, Vikram K. : Molecular Weight Distribution Effects On The Structure Of Strongly Adsorbed Polymers By Monte Carlo Simulation :Journal Of Chemical Physics, 136 Article Number: 214902 Doi: 10.1063/1.4725544 , 2012 ISSN · 0021-9606

Milchev, A ; Paul, W ; Binder, K : Off-Lattice Monte-Carlo Simulation Of Dilute And Concentrated Polymer-Solutions Under Theta Conditions : Journal Of Chemical Physics, 99 pp.: 4786-4798 Doi: 10.1063/1.466027, 1993 ISSN · 0021-9606

434. Chung, Pil Seung; Smith, Robert; Vemuri, Sesha Hari; Et Al. : Multi-Scale/Multi-Physical Modeling In Head/Disk Interface Of Magnetic Data Storage Journal Of Applied Physics, 111 Article Number: 07b712 Doi: 10.1063/1.3679080, 2012 ISSN 0040-6090.

Milchev, A ; Rouault, Y :A Monte-Carlo Study Of Thermodynamic Relaxation In Living Polymers : Journal De Physique Ii, 5 pp.: 343-347 , 1995 ISSN:1155-4312

435. Tavares, Jose Maria; Rovigatti, Lorenzo; Sciortino, Francesco : Quantitative Description Of The Self-Assembly Of Patchy Particles Into Chains And Rings : Journal Of Chemical Physics, 137 Article Number: 044901 Doi: 10.1063/1.4737930, 2012 ISSN · 0021-9606

Milchev, Andrey : Single-Polymer Dynamics Under Constraints: Scaling Theory And Computer Experiment : Journal Of Physics-Condensed Matter, 23 Article Number: 103101 Doi: 10.1088/0953-8984/23/10/103101, 2011 ISSN 0953-8984

436. Rasmussen, Christopher J.; Vishnyakov, Aleksey; Neimark, Alexander V. Translocation Dynamics Of Freely Jointed Lennard-Jones Chains Into Adsorbing Pores : Journal Of Chemical Physics, 137 Article Number: 144903 Doi: 10.1063/1.4754632, 2012 ISSN · 0021-9606

437. Sheng, Junfang; Luo, Kaifu : Chain Conformation Of Ring Polymers Under A Cylindrical Nanochannel Confinement : Physical Review E, 86 Article Number: 031803 Doi: 10.1103/Physreve.86.031803, 2012 ISSN 1550-7998

438. Luo, Meng-Bo; Cao, Wei-Ping : Influence Of Polymer-Pore Interaction On The Translocation Of A Polymer Through A Nanopore :Physical Review E,

- 439.** Ikonen, T.; Bhattacharya, A.; Ala-Nissila, T.; Et Al. : Influence Of Non-Universal Effects On Dynamical Scaling In Driven Polymer Translocation : Journal Of Chemical Physics, 137 Article Number: 085101 Doi: 10.1063/1.4742188, 2012 ISSN · 0021-9606
- 440.** Cao, Wei-Ping; Wang, Chao; Sun, Li-Zhen; Et Al. :Effects Of An Attractive Wall On The Translocation Of Polymer Under Driving : Journal Of Physics-Condensed Matter, 24 Article Number: 325104 Doi: 10.1088/0953-8984/24/32/325104, 2012 ISSN 0953-8984
- 441.** Sakaue, Takahiro; Saito, Takuya; Wada, Hirofumi : Dragging A Polymer In A Viscous Fluid: Steady State And Transient : Physical Review E, 86: 1 Article Number: 011804 Doi: 10.1103/Physreve.86.011804 , 2012 ISSN 1550-7998
- 442.** Qian, Hong; Sun, Li-Zhen; Luo, Meng-Bo: Simulation Study On The Translocation Of A Partially Charged Polymer Through A Nanopore :Journal Of Chemical Physics, 137 Article Number: 034903 Doi: 10.1063/1.4737929 , 2012 ISSN · 0021-9606
- 443.** Saito, Takuya; Sakaue, Takahiro; Process Time Distribution Of Driven Polymer Transport: Physical Review E, 85 Article Number: 061803 Doi: 10.1103/Physreve.85.061803 , 2012 ISSN 1550-7998
- 444.** Yang, Shuang; Neimark, Alexander V.: Adsorption-Driven Translocation Of Polymer Chain Into Nanopores : Journal Of Chemical Physics, 136 Article Number: 214901 Doi: 10.1063/1.4720505, 2012 ISSN · 0021-9606
- 445.** Ikonen, Timo; Shin, Jaeoh; Sung, Wokyung; Et Al. :Polymer Translocation Under Time-Dependent Driving Forces: Resonant Activation Induced By Attractive Polymer-Pore Interactions : Journal Of Chemical Physics, 136 Article Number: 205104 Doi: 10.1063/1.4722080, 2012 ISSN · 0021-9606
- 446.** Ikonen, T.; Bhattacharya, A.; Ala-Nissila, T.; Et Al. :Unifying Model Of Driven Polymer Translocation : Physical Review E, 85 Article Number: 051803 Doi: 10.1103/Physreve.85.051803, 2012 ISSN 1550-7998
- 447.** Cohen, Jack A.; Chaudhuri, Abhishek; Golestanian, Ramin :Stochastic Sensing Of Polynucleotides Using Patterned Nanopores : Physical Review X, 2 Article Number: 021002 Doi: 10.1103/Physrevx.2.021002, 2012 ISSN 0031-9007

- 448.** Chang, Rakwoo; Jo, Kyubong :Dna Conformation In Nanochannels: Monte Carlo Simulation Studies Using A Primitive Dna Model : Journal Of Chemical Physics, 136 Article Number: 095101 Doi: 10.1063/1.3682984, 2012 ISSN · 0021-9606
- 449.** Karpusenko, Alena; Carpenter, Joshua H.; Zhou, Chunda; Et Al.: Fluctuation Modes Of Nanoconfined Dna : Journal Of Applied Physics, 111 Article Number: 024701 Doi: 10.1063/1.3675207, 2012 ISSN 0040-6090.
- 450.** Ledesma-Aguilar, R.; Sakaue, T.; Yeomans, J. M. : Easier Sieving Through Narrower Pores: Fluctuations And Barrier Crossing In Flow-Driven Polymer Translocation : Soft Matter, 8 pp.: 4306-4309 Doi: 10.1039/C2sm25201e, 2012 ISSN: 1744-683X
- 451.** Sheng, Junfang; Luo, Kaifu : Ejection Dynamics Of A Ring Polymer Out Of A Nanochannel : Soft Matter, 8 pp.: 367-374 Doi: 10.1039/C1sm06562a, 2012 ISSN: 1744-683X
- 452.** SLuan, Binquan; Stolovitzky, Gustavo; Martyna, Glenn :lowing And Controlling The Translocation Of Dna In A Solid-State Nanopore : Nanoscale, 4 pp.: 1068-1077 Doi: 10.1039/C1nr11201e, 2012 ISSN 2040-3364

Milchev, A Heermann, Dw; Binder, K:Finite-Size Scaling Analysis Of The Phi-4 Field-Theory On The Square Lattice: Journal Of Statistical Physics, 44 pp.: 749-784 Doi: 10.1007/Bf01011906, 1986 ISSN: 0022-4715

- 453.** Mehta, Dhagash; Hauenstein, Jonathan D.; Kastner, Michael : Energy-Landscape Analysis Of The Two-Dimensional Nearest-Neighbor Phi(4) Model :Physical Review E, 85 Article Number: 061103 Doi: 10.1103/Physreve.85.061103, 2012 ISSN 1550-7998
- 454.** Gross, M.; Varnik, F. : Simulation Of Static Critical Phenomena In Nonideal Fluids With The Lattice Boltzmann Method : Physical Review E, 85 Article Number: 056707 Doi: 10.1103/Physreve.85.056707, May 24 2012 ISSN 1550-7998

Milchev, A ; Paul, W ; Binder, K :Polymer-Chains Confined Into Tubes With Attractive Walls - A Monte-Carlo Simulation : Macromolecular Theory And Simulations, 3 pp.: 305-323 Doi: 10.1002/Mats.1994.040030203, 1994 ISSN: 1022-1344

- 455.** De Virgiliis, Andres; Kuban, Lukasz; Paturej, Jaroslaw; Et Al. : Unexpected Crossover Dynamics Of Single Polymer In A Corrugated Tube : Journal Of Chemical Physics, 137 Article Number: 114902 Doi: 10.1063/1.4752767, 2012 ISSN · 0021-9606

- 456.** Ledesma-Aguilar, R.; Sakaue, T.; Yeomans, J. M. : Easier Sieving Through Narrower Pores: Fluctuations And Barrier Crossing In Flow-Driven Polymer Translocation :Soft Matter, 8 pp.: 4306-4309 Doi: 10.1039/C2sm25201e, 2012 ISSN 1744-683X

Milchev, A. ; Klushin, L. ; Skvortsov, A. ; Et Al. : Ejection Of A Polymer Chain From A Nanopore: Theory And Computer Experiment:Macromolecules, 43 pp.: 6877-6885 Doi: 10.1021/Ma1003826, 2010 ISSN 0953-8984 ISSN 0024-9297

- 457.** Sheng, Junfang; Luo, Kaifu : Chain Conformation Of Ring Polymers Under A Cylindrical Nanochannel Confinement : Physical Review E, 86 Article Number: 031803 Doi: 10.1103/Physreve.86.031803 , 2012 ISSN 1550-7998
- 458.** Sheng, Junfang; Luo, Kaifu : Ejection Dynamics Of A Ring Polymer Out Of A Nanochannel : Soft Matter, 8 pp.: 367-374 Doi: 10.1039/C1sm06562a, 2012 ISSN 1744-683X

Milchev, A ; Bhattacharya, A ; Binder, K :Formation Of Block Copolymer Micelles In Solution: A Monte Carlo Study Chain Length Dependence : Macromolecules, 34 pp.: 1881-1893 Doi: 10.1021/Ma000645j, 2001, ISSN 0024-9297

- 459.** Ouldridge, Thomas E.: Inferring Bulk Self-Assembly Properties From Simulations Of Small Systems With Multiple Constituent Species And Small Systems In The Grand Canonical Ensemble : Journal Of Chemical Physics, 137 Article Number: 144105 Doi: 10.1063/1.4757267, 2012 ISSN · 0021-9606
- 460.** Khodadadi, Zahra; Mousavi-Khoshdel, S. Morteza; Gharibi, Hussein; Et Al.: Monte Carlo Simulation Of Binary Surfactant/Contaminant/Water Systems : Journal Of Molecular Graphics & Modelling, 36 pp.: 20-29 Doi: 10.1016/J.Jmgm.2012.03.003, 2012 ISSN 1093-3263
- 461.** Englebienne, Pablo; Hilbers, Peter A. J.; Meijer, E. W.; Et Al. Directional Interactions In Semiflexible Single-Chain Polymer Folding : : Soft Matter, 8 pp.: 7610-7616 Doi: 10.1039/C2sm25832c, 2012 ISSN 1744-683X

Milchev, A.; Binder, K: Static And Dynamic Properties Of Adsorbed Chains At Surfaces: Monte Carlo Simulation Of A Bead-Spring Model : Macromolecules, 29 pp.: 343-354 Doi: 10.1021/Ma950668b, 1996 ISSN 0024-9297

- 462.** Cao, Wei-Ping; Wang, Chao; Sun, Li-Zhen; Et Al. Effects Of An Attractive Wall On The Translocation Of Polymer Under Driving : Journal Of Physics-Condensed Matter, 24 Article Number: 325104 Doi: 10.1088/0953-8984/24/32/325104, 2012 ISSN 0953-8984

- 463.** Mu, Dan; Li, Jian-Quan; Wang, Song; Et Al. : Molecular Dynamics Simulation Of The Adsorption And Diffusion Of A Single Polydimethylsiloxane Polymer Chain On A Silicon (111) Surface :Journal Of Theoretical & Computational Chemistry, 11 pp.: 697-708 Doi: 10.1142/S0219633612500460, 2012 ISSN: 0219-6336
- 464.** Jaworski, Stanislaw; Sikorski, Andrzej: Properties Of Branched Polymer Chains Adsorbed On A Patterned Surface : Polymer, 53: 8 pp.: 1741-1746 Doi: 10.1016/J.Polymer.2012.02.039, 2012 ISSN 2073-4360
- 465.** Chung, Pil Seung; Smith, Robert; Vemuri, Sesha Hari; Et Al. : Multi-Scale/Multi-Physical Modeling In Head/Disk Interface Of Magnetic Data Storage : Journal Of Applied Physics, 111 Article Number: 07b712 Doi: 10.1063/1.3679080, 2012 ISSN 0040-6090.
- 466.** Benkova, Zuzana; Cifra, Peter : Simulation Of Semiflexible Cyclic And Linear Chains Moderately And Strongly Confined In Nanochannels : Macromolecules, 45 pp.: 2597-2608 Doi: 10.1021/Ma202730c, 2012 ISSN 0024-9297
- 467.** Cifra, Peter: Weak-To-Strong Confinement Transition Of Semi-Flexible Macromolecules In Slit And In Channel : Journal Of Chemical Physics, 136 Article Number: 024902 Doi: 10.1063/1.3674304, 2012 ISSN · 0021-9606 ISSN 0024-9297
- 468.** Yang, Zhiyong; Zhang, Dong; Ateeq-Ur-Rehman; Et Al. : Aggregation Behavior Of Two Separate Polymers Confined Between Two Membranes : Soft Matter, 8 pp.: 1901-1908 Doi: 10.1039/C1sm06712e, 2012 ISSN 1744-683X

Milchev, A ; Wittmer, Jp ; Landau, Dp : Dynamical Monte Carlo Study Of Equilibrium Polymers: Effects Of High Density And Ring Formation :Physical Review E, 61 pp.: 2959-2966 Doi: 10.1103/Physreve.61.2959, 2000 ISSN 1550-7998

- 469.** Tavares, Jose Maria; Rovigatti, Lorenzo; Sciortino, Francesco: Quantitative Description Of The Self-Assembly Of Patchy Particles Into Chains And Rings : Journal Of Chemical Physics, 137 Article Number: 044901 Doi: 10.1063/1.4737930, 2012 ISSN · 0021-9606
- 470.** Rovigatti, Lorenzo; Russo, John; Sciortino, Francesco : Structural Properties Of The Dipolar Hard-Sphere Fluid At Low Temperatures And Densities : Soft Matter, 8 pp.: 6310-6319 Doi: 10.1039/C2sm25192b, 2012 ISSN 1744-683X

Milchev, A ; Muller, M ; Binder, K : Phase Transitions In Nanosystems Caused By Interface Motion: The Ising Bipyramid With Competing Surface Fields :Physical Review

471. Parry, Andrew O.; Rascon, Carlos : Scaling Properties Of Fluid Adsorption Near The Base Of A Cylinder : Physical Review E, 85 Article Number: 031606 Doi: 10.1103/Physreve.85.031606 Part: Part 1, 2012 ISSN 1550-7998

Milchev, A ; Muller, M ; Binder, K ; Et Al.: Wedge Filling And Interface Delocalization In Finite Ising Lattices With Antisymmetric Surface Fields : Physical Review E, 68 Article Number: 031601 Doi: 10.1103/Physreve.68.031601 , 2003 ISSN 1550-7998

472. Bernardino, N. R.; Parry, A. O.; Romero-Enrique, J. M. : The Order Of Filling Transitions In Acute Wedges : Journal Of Physics-Condensed Matter, 24 Article Number: 182202 Doi: 10.1088/0953-8984/24/18/182202, 2012 ISSN 0953-8984

473. Parry, Andrew O.; Rascon, Carlos : Scaling Properties Of Fluid Adsorption Near The Base Of A Cylinder :Physical Review E, 85 Article Number: 031606 Doi: 10.1103/Physreve.85.031606, Mar 30 2012 ISSN 1550-7998

Milchev, A; Muller, M; Binder, K; Et Al.:Interface Localization-Delocalization In A Double Wedge: A New Universality Class With Strong Fluctuations And Anisotropic Scaling: Physical Review Letters, 90 Article Number: 136101 Doi: 10.1103/Physrevlett.90.136101, 2003 ISSN. 0031-9007

474. Parry, Andrew O.; Rascon, Carlos : Scaling Properties Of Fluid Adsorption Near The Base Of A Cylinder : Physical Review E, 85 Article Number: 031606 Doi: 10.1103/Physreve.85.031606 Part: Part 1, 2012 ISSN 1550-7998

Milchev, A ; Pickenhain, R :Quadratic Response Of A Fermi Gas - Building-Up Of Covalent Bonding In Zincblende Semiconductors - Non-Diagonal Density Matrix Treatment : Physica Status Solidi B-Basic Research, 79 pp.: 549-558 Doi: 10.1002/Pssb.2220790219, 1977 ISSN: 1521-3951

475. Mikhailov, Sergey A.: Second-Order Response Of A Uniform Three-Dimensional Electron Gas To A Longitudinal Electric Field :Annalen Der Physik, 524 pp.: 182-187 Doi: 10.1002/Andp.201100260, Apr 2012 ISSN: 1521-3951

Milchev, A. ; Dirnitrova, D. I. ; Binder, K. : Excess Free Energy Of Nanoparticles In A Polymer Brush : Polymer, 49 pp.: 3611-3618 Doi: 10.1016/J.Polymer.2008.04.032, 2008 ISSN 2073-4360

- 476.** Merlitz, Holger; Wu, Chen-Xu; Sommer, Jens-Uwe : Inclusion Free Energy Of Nanoparticles In Polymer Brushes : Macromolecules, 45 pp.: 8494-8501
Doi: 10.1021/Ma301781b, 2012 ISSN 0024-9297
- 477.** Egorov, S. A. : Insertion Of Nanoparticles Into Polymer Brush Under Variable Solvent Conditions : Journal Of Chemical Physics, 137 Article Number: 134905 Doi: 10.1063/1.4757017, 2012 ISSN · 0021-9606
- 478.** Chen, Yantao; Chen, Jeff Z. Y. : Absorption And Engulfing Transitions In Nanoparticle Infiltration Into A Polymer Brush: A Monte Carlo Simulation : Journal Of Polymer Science Part B-Polymer Physics, 50 pp.: 21-26 Doi: 10.1002/Polb.22369, 2012 ISSN: 0887-624X

Milchev, A; Binder, K : Monte-Carlo Study Of A Lattice Gas-Model With Nonadditive Lateral Interactions: Surface Science, 164 pp.: 1-18 Doi: 10.1016/0039-6028(85)90697-1, 1985 ISSN: 09701893

- 479.** Pinto, O. A.; Ramirez-Pastor, A. J.; Nieto, F. : Configurational Entropy Of Systems With Non-Additive Lateral Interactions : Physica A-Statistical Mechanics And Its Applications, 391 pp.: 6390-6398 Doi: 10.1016/J.Physa.2012.06.041, 2012 ISSN:0009-2541

Milchev, A ; Paunov, M : A Unified Model Description Of Mobile And Localized Adsorption .1. Mfa With Non-Additive Lateral Interactions - An Application To Disordered Adsorbed Monolayer On A Structureless Substrate :Surface Science, 108 pp.: 25-37 Doi: 10.1016/0039-6028(81)90355-1, 1981 ISSN: 09701893

- 480.** O. A.; Ramirez-Pastor, A. J.; Nieto, F. : Configurational Entropy Of Systems With Non-Additive Lateral Interactions : Pinto, Physica A-Statistical Mechanics And Its Applications, 391 pp.: 6390-6398 Doi: 10.1016/J.Physa.2012.06.041, 2012 ISSN:0009-2541

Pandey, Rb ; Milchev, A ; Binder, K :Semidilute And Concentrated Polymer Solutions Near Attractive Walls: Dynamic Monte Carlo Simulation Of Density And Pressure Profiles Of A Coarse-Grained Model: Macromolecules, 30 pp.: 1194-1204 Doi: 10.1021/Ma961342l, 1997 ISSN 0024-9297

- 481.** Mu, Dan; Li, Jian-Quan; Wang, Song; Et Al. : Molecular Dynamics Simulation Of The Adsorption And Diffusion Of A Single Polydimethylsiloxane Polymer Chain On A Silicon (111) Surface): Journal Of Theoretical & Computational Chemistry, 11 pp.: 697-708 Doi: 10.1142/S0219633612500460, 2012 ISSN: 0219-6336
- 482.** Jaworski, Stanislaw; Sikorski, Andrzej: Properties Of Branched Polymer Chains Adsorbed On A Patterned Surface : Polymer, 53 pp.: 1741-1746 Doi: 10.1016/J.Polymer.2012.02.039, 2012 ISSN 2073-4360

Paturej, Jaroslaw ; Milchev, Andrey ; Rostashvili, Vakhtang G. ; Et Al. :Polymer Detachment Kinetics From Adsorbing Surface: Theory, Simulation And Similarity To Infiltration Into Porous Medium : Macromolecules, 45 10 pp.: 4371-4380 Doi: 10.1021/Ma202671n, 2012 ISSN 0024-9297

- 483.** Owghanian, Payam; Grosberg, Alexander Y. : Propagation Of Tension Along A Polymer Chain : RPhysical Review E, 86 Article Number: 011803 Doi: 10.1103/Physreve.86.011803 , 2012 ISSN 1550-7998
- 484.** Sakaue, Takahiro; Saito, Takuya; Wada, Hirofumi : Dragging A Polymer In A Viscous Fluid: Steady State And Transient : Physical Review E, 86 Article Number: 011804 Doi: 10.1103/Physreve.86.011804, 2012 ISSN 1550-7998

Reith, D. ; Milchev, A. ; Virnau, P. ; Et Al. :Anomalous Structure And Scaling Of Ring Polymer Brushes : Epl, 95 Article Number: 28003 Doi: 10.1209/0295-5075/95/28003, 2011 ISSN 0295-5075

- 485.** Kawaguchi, Daisuke; Ohta, Yutaka; Takano, Atsushi; Et Al. : Temperature And Molecular Weight Dependence Of Mutual Diffusion Coefficient Of Cyclic Polystyrene/Cyclic Deuterated Polystyrene Bilayer Films : Macromolecules, 45 pp.: 6748-6752 Doi: 10.1021/Ma3006872, 2012 ISSN 0024-9297
- 486.** Sakaue, Takahiro : Statistics And Geometrical Picture Of Ring Polymer Melts And Solutions: Physical Review E, 85 Article Number: 021806 Doi: 10.1103/Physreve.85.021806 , Feb 21 2012 ISSN 1550-7998
- 487.** Sheng, Junfang; Luo, Kaifu : Ejection Dynamics Of A Ring Polymer Out Of A Nanochannel : Soft Matter, 8 pp.: 367-374 Doi: 10.1039/C1sm06562a, 2012 ISSN 1744-683X

Rouault, Y ; Milchev, A :Monte-Carlo Study Of Living Polymers With The Bond-Fluctuation Method: Physical Review E, 51 pp.: 5905-5910 Doi: 10.1103/Physreve.51.5905 , 1995 ISSN 1550-7998

- 488.** Rovigatti, Lorenzo; Russo, John; Sciortino, Francesco: Structural Properties Of The Dipolar Hard-Sphere Fluid At Low Temperatures And Densities :Soft Matter, 8 pp.: 6310-6319 Doi: 10.1039/C2sm25192b, 2012 ISSN 1744-683X

Wang, Rong ; Egorov, Sergei A. ; Milchev, Andrey ; Et Al. : Stretching Of Free Chains Confined In Concave Brush-Coated Nanocylinders : Macromolecules, 45 pp.: 2580-2587 Doi: 10.1021/Ma202620z, 2012 ISSN 0024-9297

- 489.** Cao, Qianqian; Zuo, Chuncheng; Li, Lujuan; Et Al. : Translocation Of Nanoparticles Through A Polymer Brush-Modified Nanochannel : Biomicrofluidics, 6 Article Number: 034101 Doi: 10.1063/1.4732799, 2012 ISSN:1932-1058

Wittmer, Jp ; Van Der Schoot, P ; Milchev, A ; Et Al. :Dynamical Monte Carlo Study Of Equilibrium Polymers. II. The Role Of Rings: Journal Of Chemical Physics, 113 pp.: 6992-7005 Article Number: Pii [S0021-9606(00)50740-5] Doi: 10.1063/1.1311622, 2000 ISSN · 0021-9606

- 490.** Tavares, Jose Maria; Rovigatti, Lorenzo; Sciortino, Francesco : Quantitative Description Of The Self-Assembly Of Patchy Particles Into Chains And Rings: Journal Of Chemical Physics, 137 Article Number: 044901 Doi: 10.1063/1.4737930, 2012 ISSN · 0021-9606

- 491.** Freed, Karl F. : Influence Of Small Rings On The Thermodynamics Of Equilibrium Self-Assembly : Journal Of Chemical Physics, 136 Article Number: 244904 Doi: 10.1063/1.4730161, 2012 ISSN · 0021-9606

- 492.** Rovigatti, Lorenzo; Russo, John; Sciortino, Francesco : Structural Properties Of The Dipolar Hard-Sphere Fluid At Low Temperatures And Densities :Soft Matter, 8 pp.: 6310-6319 Doi: 10.1039/C2sm25192b, 2012 ISSN 1744-683X

Wittmer, Jp ; Milchev, A ; Cates, Me :Dynamical Monte Carlo Study Of Equilibrium Polymers: Static Properties: Journal Of Chemical Physics, 109 pp.: 834-845 Doi: 10.1063/1.476623, 1998 ISSN: 0021-9606

- 493.** Rovigatti, Lorenzo; Russo, John; Sciortino, Francesco: Structural Properties Of The Dipolar Hard-Sphere Fluid At Low Temperatures And Densities : Soft Matter, 8 pp.: 6310-6319 Doi: 10.1039/C2sm25192b, 2012, ISSN: 1744-683X

- 494.** Breidenich, Jennifer L.; Wei, Michael C.; Clatterbaugh, Guy V.; Et Al. Controlling Length And Areal Density Of Artificial Cilia Through The Dipolar Assembly Of Ferromagnetic Nanoparticles: Soft Matter, 8 pp.: 5334-5341 Doi: 10.1039/C2sm25096a, 2012, ISSN: 1744-683X

Yamakov, V; Milchev, A., Polymer Chain In A Flow Through A Porous Medium: A Monte Carlo Simulation: Physical Review E, 56 pp.: 7043-7052 Doi: 10.1103/Physreve.56.7043, 1997, ISSN: 1550-7998

- 495.** Haward, Simon J.; Oliveira, Monica S. N.; Alves, Manuel A.; Et Al. : Optimized Cross-Slot Flow Geometry For Microfluidic Extensional Rheometry: Physical Review Letters, 109 Article Number: 128301 Doi: 10.1103/Physrevlett.109.128301, 2012, **ISSN: 0031-9007**

Yamakov, V.; Milchev, A., Diffusion Of A Polymer Chain In Porous Media : Physical Review E, 55 pp.: 1704-1712 Doi: 10.1103/Physreve.55.1704, 1997, ISSN: 1550-7998

- 496.** Schoebl, Sebastian; Zierenberg, Johannes; Janke, Wolfhard :Influence Of Lattice Disorder On The Structure Of Persistent Polymer Chains : Journal Of Physics A-Mathematical And Theoretical, 45 Article Number: 475002 Doi: 10.1088/1751-8113/45/47/475002, 2012 ISSN. 0031-9007

Yaneva, J ; Milchev, A ; Binder, K : Polymer Nanodroplets Forming Liquid Bridges In Chemically Structured Slit Pores: A Computer Simulation: Journal Of Chemical Physics, 121 pp.: 12632-12639 Doi: 10.1063/1.1826037, 2004, ISSN: 0021-9606

- 497.** Arai, Noriyoshi; Yasuoka, Kenji; Zeng, X. C., Nanochannel With Uniform And Janus Surfaces: Shear Thinning And Thickening In Surfactant Solution :Langmuir, 28 pp.: 2866-2872 Doi: 10.1021/La2034643, 2012, ISSN: 0743-7463

Yaneva, J. ; Dimitrov, D. I. ; Milchev, A. ; Et Al. : Nanoinclusions In Polymer Brushes With Explicit Solvent - A Molecular Dynamics Investigation : Journal Of Colloid And Interface Science, 336 pp.: 51-58 Doi: 10.1016/J.Jcis.2009.03.062, 2009 ISSN. 0031-9007

- 498.** Egorov, S. A., Insertion Of Nanoparticles Into Polymer Brush Under Variable Solvent Conditions : Journal Of Chemical Physics, 137 Article Number: 134905 Doi: 10.1063/1.4757017, 2012, ISSN: 0021-9606

- 499.** Opferman, Michael G.; Coalson, Rob D.; Jasnow, David; Et Al.: Morphological Control Of Grafted Polymer Films Via Attraction To Small Nanoparticle Inclusions: Physical Review E, 86 Article Number: 031806 Doi: 10.1103/Physreve.86.031806, 2012 ISSN 1550-7998

- 500.** Chen, Yantao; Chen, Jeff Z. Y. : Absorption And Engulfing Transitions In Nanoparticle Infiltration Into A Polymer Brush: A Monte Carlo Simulation : Journal Of Polymer Science Part B-Polymer Physics, 50 pp.: 21-26 Doi: 10.1002/Polb.22369, 2012 ISSN: 0887-624X

- 501.** Roiter, Yuri; Minko, Iryna; Mechanism Of Nanoparticle Actuation By Responsive Polymer Brushes: From Reconfigurable Composite Surfaces To Plasmonic Effects : Nykypanchuk, Dmytro; Et Al. : Nanoscale, 4 pp.: 284-292 Doi: 10.1039/C1nr10932d, 2012 ISSN 2040-3364

Yaneva, J ; Milchev, A ; Binder, K :Polymer Droplets On Substrates With Striped Surface Domains: Molecular Dynamics Simulations Of Equilibrium Structure And Liquid Bridge Rupture : Journal Of Physics-Condensed Matter, 17 : 49 Special pp.: S4199-S4211 Doi: 10.1088/0953-8984/17/49/014, 2005 ISSN 0953-8984

- 502.** David, Robert; Neumann, A. Wilhelm :Anisotropic Drop Shapes On Chemically Striped Surfaces : Colloids And Surfaces A-Physicochemical And Engineering Aspects, 393 pp.: 32-36 Doi: 10.1016/J.Colsurfa.2011.10.020, 2012 ISSN. 0031-9007

I. Gutzow and J. Schmelzer, The Vitreous State: Thermodynamics, Structure, Rheology and Crystallization. Springer Verl., Berlin, Heidelberg 1995. ISBN: 3-340-59087-0

- 503.** C. Bocker, M. Michaelis, C. Rüssel, In situ crystallization of barium zinc silicate in glass-ceramics studied by hot stage scanning electron microscopy, *J. El. Microscopy*, 61, 6 (2012) 381-391. ISSN: 2050-5698
- 504.** U. Buchenau, Structural interpretation of the Prigogine-Defay ratio at the glass transition, *Phys. Rev. B – Cond. Matter Mater. Phys.* 86, 18 (2012) art. no. 184105. ISSN: 1098-0121
- 505.** M. Patschger, W. Wisniewski, C. Rüssel, Piezoelectric glass-ceramics produced via oriented growth of Sr₂TiSi₂O₈ fresnoite: Thermal annealing of surface modified quenched glasses, *CrystEngComm*, 14, 21 (2012) 7368-7373. ISSN: 1466-8033
- 506.** T. V. Tropin, N. Jargalan, M. V. Avdeev, O. A. Kyzyma et al., Kinetics of cluster growth in polar solutions of fullerene: Experimental and theoretical study of C₆₀/NMP solution, *J. Mol. Liq.* 175 (2012) 4-11. ISSN: 0167-7322
- 507.** L. Bohling, T. S. Ingebrigtsen, A. Grzybowski, M. Paluch, J. C. Dyre, et al., Scaling of viscous dynamics in simple liquids: Theory, simulation and experiment, *New J. Phys.* 14 (2012) art. no. 113035. ISSN: 1367-2630
- 508.** C. Bocker, C. Rüssel, I. Avramov, Crystal growth in non-isochemical, highly viscous liquids and percolation theory, *Chem. Phys.* 406 (2012) 50-54. ISSN: 0301-0104
- 509.** B. P. Rodrigues, E. D. Zanotto, Evaluation of the guided random parameterization method for critical cooling rate calculations, *J. Non-Cryst. Solids* 358, 18-19 (2012) 2626-2634. ISSN: 0022-3093
- 510.** R. Kahlau, T. Gnuzmann, F. Emmerling, K. Rademann et al., Quinaldine: Accessing two crystalline polymorphs via the supercooled liquid, *J. Chem. Phys.* 137, 5 (2012) art. no. 054505. ISSN: 1089-7690
- 511.** J.-L. Garden, H. Guillou, J. Richard, L. Wondraczek, Affinity and its derivatives in the glass transition process, *J. Chem. Phys.* 137, 2 (2012) art. no. 024505. ISSN: 1089-7690

- 512.** J.-L. Garden, H. Guillou, J. Richard, L. Wondraczek, Non-equilibrium configurational Prigogine-Defay ratio, *J. Non-Equilibr. Thermodynamics* 37, 2 (2012) 143-177. ISSN: 1437-4358
- 513.** S. Bhende, N. Jadhav, Moringa coagulant as a stabilizer for amorphous solids: Part I, *AAPS PharmSciTech* 13, 2 (2012) 400-410. ISSN: 1530-9932
- 514.** H.-J. Hoffmann, Energy and entropy of crystals, melts and glasses or what is wrong in kauzmann's paradox?, *Materialwiss. Werkstofftech.* 43, 6 (2012) 528-533. ISSN: 0933-5137
- 515.** G. P. Johari, D. P. B. Aji, Fictive temperatures of pharmaceutical glasses - A comparison of two methods for determining the enthalpy and entropy integrals, *Thermochim. Acta* 536 (2012) 41-46. ISSN: 0040-6031
- 516.** A. Wurm, E. Zhuravlev, K. Eckstein, D. Jehnichen et al., Crystallization and homogeneous nucleation kinetics of poly(ϵ -caprolactone) (PCL) with different molar masses, *Macromol.* 45, 9 (2012) 3816-3828. ISSN: 0024-9297
- 517.** A. De Pablos-Martín, A. Durán, M. J. Pascual, Nanocrystallisation in oxyfluoride systems: Mechanisms of crystallisation and photonic properties, *Int. Mater. Rev.* 57, 3 (2012) 165-186. ISSN: 0950-6608
- 518.** P. D. Gujrati, P. P. Aung, Nonequilibrium thermodynamics. III. Generalization of Maxwell, Clausius-Clapeyron, and response-function relations, and the Prigogine-Defay ratio for systems in internal equilibrium, *Phys. Rev. E – Stat., Nonlin. Soft Matter Phys.* 85, 4 (2012) art. no. 041129. ISSN: 1539-3755
- 519.** P. D. Gujrati, Nonequilibrium thermodynamics. II. Application to inhomogeneous systems, *Phys. Rev. E – Stat., Nonlin. Soft Matter Phys.* 85, 4 (2012) art. no. 041128. ISSN: 1539-3755

Jürn W. P. Schmelzer, Ivan S. Gutzow, Glasses and the Glass Transition, Wiley-VCH, 2011. ISBN: 9783527409686

- 520.** C. Bocker, M. Michaelis, C. Rüssel, In situ crystallization of barium zinc silicate in glass-ceramics studied by hot stage scanning electron microscopy, *J. El. Microscopy* 61, 6 (2012) 381-391. ISSN: 2050-5698
- 521.** J. B. Hopkins, R. Badeau, M. Warkentin, R. E. Thorne, Effect of common cryoprotectants on critical warming rates and ice formation in aqueous solutions, *Cryobiol.* 65, 3 (2012) 169-178. ISSN: 0011-2240

- 522.** U. Buchenau, Structural interpretation of the Prigogine-Defay ratio at the glass transition, *Phys. Rev. B – Cond. Matter Mater. Phys.* 86, 18 (2012) art. no. 184105. ISSN: 0163-1829
- 523.** S. P. Bhardwaj, R. Suryanarayanan, Molecular mobility as an effective predictor of the physical stability of amorphous trehalose, *Mol. Pharmaceut.* 9, 11 (2012) 3209-3217. ISSN: 1543-8384
- 524.** A. Kozmidis-Petrovic, J. Šesták, Forty years of the Hrubý glass-forming coefficient via DTA when comparing other criteria in relation to the glass stability and vitrification ability, *J. Therm. Anal. Calorimetry* 110, 2 (2012) 997-1004. ISSN: 1388-6150
- 525.** A. Lion, M. Engelhard, M. Johlitz, Thermomechanical and calorimetric behaviours of supported glass-forming films: A study based on thermodynamics with internal variables, *Thin Solid Films* 522 (2012) 441-451. ISSN: 00406090
- 526.** Y. Teng, K. Sharafudeen, S. Zhou, J. Qiu, Glass-ceramics for photonic devices, *Nippon Seramikkusu Kyokai Gakujutsu Ronbunshi/J. Ceram. Soc. Japan* 120, 1407 (2012) 458-466. ISSN: 1882-0743
- 527.** L. Bohling, T. S. Ingebrigtsen, A. Grzybowski, M. Paluch et al., Scaling of viscous dynamics in simple liquids: Theory, simulation and experiment, *New J. Phys.* 14 (2012) art. no. 113035. ISSN: 1367-2630
- 528.** H. Han, X. Wang, D. Wu, Preparation, crystallization behaviors, and mechanical properties of biodegradable composites based on poly(L-lactic acid) and recycled carbon fiber, *Composites Part A: Appl. Sci. Manufact.* 43, 11 (2012) 1947-1958. ISSN: 1359-835X
- 529.** E. Illeková, Comments on "kinetics of non-isothermal crystallization and glass transition phenomena in Ga 10Se 87Pb 3 and Ga 10Se 84Pb 6 chalcogenide glasses by DSC" by Al-Agel et al., *J. Non-Cryst. Solids* 358, 21 (2012) 2931-2934. ISSN: 0022-3093
- 530.** A. Lala, D. Roychowdhury, Ehrenfest's scheme and thermodynamic geometry in Born-Infeld AdS black holes, *Phys. Rev. D – Part., Fields, Gravit. Cosmology* 86, 8 (2012) art. no. 084027. ISSN: 0556-2821
- 531.** K. Koperwas, A. Grzybowski, K. Grzybowska, Z. Wojnarowska et al., Pressure coefficient of the glass transition temperature in the thermodynamic scaling regime, *Phys. Rev. E – Stat., Nonlin. Soft Matter Phys.* 86, 4 (2012) art. no. 041502. ISSN: 1539-3755

- 532. C. Bocker, C. Rüssel, I. Avramov, Crystal growth in non-isochemical, highly viscous liquids and percolation theory, *Chem. Phys.* 406 (2012) 50-54. ISSN: 0301-0104
- 533. W. Wisniewski, K. Otto, C. Rüssel, Oriented nucleation of diopside crystals in glass, *Cryst. Growth Des.* 12, 10 (2012) 5035-5041. ISSN: 1528-7483
- 534. C. Caroli, A. Lemaître, Ultrafast spherulitic crystal growth as a stress-induced phenomenon specific of fragile glass-formers, *J. Chem. Phys.* 137, 11 (2012) art. no. 114506. ISSN: 0021-9606
- 535. B. P. Rodrigues, E. D. Zanotto, Evaluation of the guided random parameterization method for critical cooling rate calculations, *J. Non-Cryst. Solids* 358, 18-19 (2012) 2626-2634. ISSN: 0022-3093
- 536. Y. Sun, L. Zhu, T. Wu, T. Cai et al., Stability of amorphous pharmaceutical solids: Crystal growth mechanisms and effect of polymer additives, *AAPS J.* 14, 3 (2012) 380-388. ISSN: 1550-7416

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

- 537. Swiety-Pospiech, A; Wojnarowska, Z; Pionteck, J; Pawlus, S; Grzybowski, A; Hensel-Bielowka, S; Grzybowska, K; Szulc, A; Paluch, M, High Pressure Study Of Molecular Dynamics Of Protic Ionic Liquid Lidocaine Hydrochloride *Journal Of Chem. Physics*, 136 (22): 2012 ISSN 0021-9606
- 538. Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts, *J.Non-Cryst. Sol.*, 358, Issue 8, 15 April 2012, Pages 1202-1209 ISSN 0022-3093

I. Avramov, E. Grantscharova And I. Gutzow, J.“ Structural relaxation in two metaphosphate glasses” Non-Cryst. Sol 91 (1987) 386, ISSN 0022-3093

- 539. Kido, Ladislav; Mueller, Matthias; Ruessel, Christian, The Effect Of Viscosity On The Kinetics Of Redox Reactions In Highly Viscous Silicate Liquids *J. Chemical Physics*, 136 (22): 2012 ISSN 0021-9606

I. Avramov, A. Milchev, J. Non-Cryst. Sol. 104 (1988) 253 , “ Effect of disorder on diffusion and viscosity in condensed systems” ISSN 0022-3093

- 540. Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts *J.Non-Cryst. Sol.*, 358, 8, 2012, Pages 1202-1209 ISSN: 0022-3093

- 541.** Trejo González, J.A., Paula Longinotti, M., Corti, H.R, Viscosity Of Supercooled Aqueous Glycerol Solutions, Validity Of The Stokes-Einstein Relationship, And Implications For Cryopreservation Cryobiology, 65 (2) (2012) Pp. 159-162. ISSN: 0011-2240

I. Avramov, I. Gutzow, J. Non-Cryst. Sol. 104 (1988) 148, "EFFECT OF DISORDER ON DIFFUSION AND VISCOSITY IN CONDENSED SYSTEMS" ISSN 0022-3093

- 542.** Kozmidis-Petrovic, A; Sestak, Forty Years Of The Hrubý Glass-Forming Coefficient Via Dta When Comparing Other Criteria In Relation To The Glass Stability And Vitrification Ability J, Journal Of Thermal Analysis And Calorimetry, 110 (2):997-1004; 2012 ISSN 0953-8984

I. Avramov, A. Milchev, "A MODEL DESCRIPTION OF DIFFUSION AND VISCOSITY IN AMORPHOUS CONDENSED SYSTEMS" Proc. XV Intern. Congr. On Glass, Leningrad 1989, 1a P.274

- 543.** Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts J.Non-Cryst. Sol., 358, 8, 2012, Pp 1202-1209 ISSN 0022-3093

I. Avramov, N. Avramova, S. Fakirov, AN ATTEMPT TO OBTAIN AMORPHOUS POLYAMIDE-6 Macromol. Chem. Rapid Comm. 11 (1990) 135 ISSN: 0022-3093

- 544.** Sedlarik, V; Otgonzul, O; Kitano, T; Gregorova, A; Hrabalova, M; Junkar,I; Cvelbar, U; Mozetic, M; Saha, P, Macromolecular Science Part B-Physics, 51 (5):982-1001; 10.1080/00222348.2011.610265 2012 ISSN 0022-3093

- 545.** Bhardwaj, S.P., Suryanarayanan, R., Molecular Mobility As An Effective Predictor Of The Physical Stability Of Amorphous Trehalose (2012) Molecular Pharmaceutics, 9 (11) Pp. 3209-3217. ISSN 0022-3093

I. Avramov " Influence of disorder on viscosity of undercooled melts " J. Chem. Phys. 1089-7690,95 (1991) 4439 ISSN 0021-9606.

- 546.** Harris, Kr; Kanakubo, M., High Pressure Studies Of The Transport Properties Of Ionic Liquids Faraday Discussions, 154 425-438; 10.1039/C1fd00085c 2012 ISSN 0022-3093

- 547.** Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts J.Non-Cryst. Sol 358, 8, 15 April 2012, Pp 1202-1209 ISSN: 0022-3093

- 548.** López, E.R., Pensado, A.S., Fernández, J., Harris, K.R., On The Density Scaling Of Pvt Data And Transport Properties For Molecular And Ionic

Liquids Journal Of Chemical Physics, 136 (21), Art. No. 214502 (2012)
ISSN: 0021-9606

- 549.** Guo, X., Mauro, J.C., Potuzak, M., Yue, Y., Structural Relaxation In Annealed Hyperquenched Basaltic Glasses: Insights From Calorimetry , Journal Of Non-Crystalline Solids 358 (11) ,(2012) Pp. 1356-1361 ISSN 0022-3093

I. Avramov, "Kinetics of structural relaxation of glass-forming melts" Thermochimica Acta (1996) 363-382 ISSN: 0040-6031280

- 550.** Souri, D, Glass Transition And Fragility Of Telluro-Vanadate Glasses Containing Antimony Oxide Journal Of Materials Science 47 (2):625-631; 2012 ISSN 0022-2461

**I. Avramov "Viscosity Of Glassforming Melts" J. Non-Cryst. Solids 238 (1998) 6-10
ISSN 0022-3093**

- 551.** Angeli, F; Villain, O; Schuller, S; Charpentier, T; De Ligny, D; Bressel, L; Wondraczek, Effect Of Temperature And Thermal History On Borosilicate Glass Structure L, Phys. Rev B.85. 0541102012 ISSN 0022-2461

- 552.** Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts J.Non-Cryst. Sol., 358, 8, 2012, Pp. 1202-1209
ISSN 0022-3093

Th. Hoeche, S. Habelitz, I. Avramov "crystal Morphology Engineering In SiO₂-Al₂O₃-MgO-Na₂O-F₂ Mica Glass-Ceramics, Acta Mater. 47(3) 735-744 (1999) ISSN 0022-3093

- 553.** Kurganskaya, I; Arvidson, Rs; Fischer, C; Luttge, A, Does The Stepwave Model Predict Mica Dissolution Kinetics? Geochimica Et Cosmochimica Acta, 97 120-130; 2012 ISSN 0022-2461

I. Avramov, diffusion On Amorphous Substrates" J. Phys.: Condens. Matter 11(25) (1999) L267-L272 ISSN 0022-3093

- 554.** Horton, Dj; Scully, Jr, The Effect Of The Amorphous And Crystalline States On Preferential Corrosion Of Hf From A Cu 15hf 20dy 05 Alloy Metallug. Mater. Transactions A-Physical Metallurgy And Materials Science, 43a (8):2706-2720; 2012 ISSN 0022-2461

I. Avramov, N. Avramova, "kinetics Of Relaxation And Crystallization Of Poly(Ethylene Terephthalate)" J. Non-Crystalline Solids 260 (1999) 15-20 ISSN 0022-3093

- 555.** Souri, D, Glass Transition And Fragility Of Telluro-Vanadate Glasses Containing Antimony Oxide Journal Of Materials Science, 47 (2):625-631; 2012 ISSN 0022-2461

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

- 556.** Y. Yue, L. Wondraczek, J. Deubener, Glass Transition In An Isostatically Compressed Calcium Metaphosphate Glass Journal Of Chemical Physics 126, 144902 (2007), ISSN 0021-9606
- 557.** Harris, Kr; Kanakubo, M., High Pressure Studies Of The Transport Properties Of Ionic Liquids Faraday Discussions, 154 425-438; 2012 ISSN 0022-3093
- 558.** Kaminski, K; Pawlus, S; Adrjanowicz, K; Wojnarowska, Z; Wlodarczyk, P; Paluch, M, The Importance Of The Activation Volume For The Description Of The Molecular Dynamics Of Glass-Forming Liquids Journal Of Physics-Condensed Matter, 24 (6):2012 ISSN 0022-2461
- 559.** Grzybowski, A; Kolodziejczyk, K; Koperwas, K; Grzybowska, K; Paluch, M, Effects Of Lowering Temperature And Raising Pressure On The Spatially Heterogeneous Dynamics Of Glass-Forming Van Der Waals Liquids Physical Review B, 85 (22):2012 ISSN 0022-3093
- 560.** Masiewicz, E., Grzybowski, A., Sokolov, A.P., Paluch, M., Temperature-Volume Entropic Model For Viscosities And Structural Relaxation Times Of Glass Formers Journal Of Physical Chemistry Letters , 3 (18) 2012 Pp. 2643 – 2648 ISSN 0022-3093
- 561.** Ediger, Md; Harrowell, P, Perspective: Supercooled Liquids And Glasses Journal Of Chemical Physics, 137 (8):10.1063/1.4747326 28 2012 ISSN 0022-2461
- 562.** Grzybowski, A; Koperwas, K; Paluch, M, Scaling Of Volumetric Data In Model Systems Based On The Lennard-Jones Potential Physical Review E, 86 (3): 2012 ISSN 0022-3093
- 563.** M. Ojovann Viscous Flow And The Viscosity Of Melts And Glasses Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B, August 2012, 53 (4), 143–150 ISSN 0022-3093
- 564.** Swiety-Pospiech, A., Wojnarowska, Z., Pionteck, J., Pawlus, S., Grzybowski, A., Hensel-Bielowka, S., Grzybowska, K., Paluch, M. High Pressure Study Of Molecular Dynamics Of Protic Ionic Liquid Lidocaine Hydrochloride, Journal Of Chemical Physics 136 (22) ,(2012) Art. No. 224501 ISSN 0022-3093

- 565.** López, E.R., Pensado, A.S., Fernández, J., Harris, K.R. , On The Density Scaling Of Pvt Data And Transport Properties For Molecular And Ionic Liquids, Ournal Of Chemical Physics 136 (21) (2012) , Art. No. 214502 ISSN 0022-3093

I. Avramov, R. Kedding, C. Russel, Crystallization Kinetics And Rigidity Percolation In Glassforming MeltsJ. Non-Cryst. Solids 272 (2000) 147-153 ISSN 0022-3093

- 566.** De Pablos-Martin, A; Duran, A; Pascual, Mj, Nanocrystallisation In Oxyfluoride Systems: Mechanisms Of Crystallisation And Photonic Properties International Materials Reviews, 57 (3):165-186; 2012 ISSN 0022-2461

I. Avramov, G. Guinev, A.C.M. Rodrigues, Thermal Analysis Of Li₂O TeO₂ Glass J. Non-Cryst. Solids 271 (2000) 12-17 ISSN 0022-3093

- 567.** Souri, D, Glass Transition And Fragility Of Telluro-Vanadate Glasses Containing Antimony Oxide Journal Of Materials Science, 47 (2):625-631; 2012 ISSN 0022-2461

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

- 568.** Wisniewski, W., Schröter, B., Zscheckel, T., Rüssel, C.. Oriented Nucleation Of Diopside Crystals In Glass Crystal Growth And Design, 12 (3) Pp.(2012) 1586-1592. ISSN 1466-8033

- 569.** Wisniewski, W; Baptista, Ca; Russel, C, Crystengcomm, 14 (17):5434-5440; 10.1039/C2ce25293g 2012 ISSN 1466-8033

- 570.** Wisniewski, W., Otto, K., Rüssel, C., A Global Glassy Layer On Baal 2b 2o 7 Crystals Formed During Surface Crystallization Of BaO•Al 2o 3•B 2o 3 Glass Crystal Growth And Design , 12 (10) Pp. (2012)5035 - 5041 . ISSN 1466-8033

Hoche, T.; Moisescu, C.; Avramov, I.; Russel, C.; Heerdegen, W. D.;Microstructure Of SiO₂-Al₂O₃-Cao-P₂O₅-K₂O-F' Glass Ceramics. Needlelike Versus Isometric Morphology Of Apatite Crystals Chem. Mater. (2001); 13(4); 1312-1319 ISSN: 1552-4981

- 571.** Denry, I., Holloway, J.A., Gupta, P.K. Effect Of Crystallization Heat Treatment On The Microstructure Of Niobium-Doped Fluorapatite Glass-Ceramics Journal Of Biomedical Materials Research - Part B Applied Biomaterials, 100 B (5) Pp. 1198-1205 (2012) ISSN 1473-2262

Hoche, T.; Moisescu, C.; Avramov, I.; Russel, C.; Heerdegen, W. D.; Jager, C.; microstructure Of $\text{SiO}_2\text{-Al}_2\text{O}_5\text{-CaO-P}_2\text{O}_5\text{-K}_2\text{O-F}$ Glass Ceramics. 2. Time Dependence Of Apatite Crystal Growth *Chem. Mater.* (2001); 13(4); 1320-1325.ISSN: 0021-9304

572. O'flynn, K.P., Stanton, K.T., Controlling The Crystallization Of Fluorapatite In Apatite-Mullite Glass-Ceramics, *Crystal Growth And Design*, (2012) 12 (3) Pp. 1218-1226. ISSN 1528-7483
573. Denry, I., Holloway, J.A., Gupta, P.K. Effect Of Crystallization Heat Treatment On The Microstructure Of Niobium-Doped Fluorapatite Glass-Ceramics *Journal Of Biomedical Materials Research - Part B Applied Biomaterials*, 100 B (5) Pp. 1198-1205 (2012) ISSN: 1528-7483
574. Liu, S., Zhu, C., Zhang, Y., Xiao, Z., Yue, Y. Composition Dependence Of Spontaneous Crystallisation Of Phosphosilicate Glass Melts During Cooling *Glass Technology: European Journal Of Glass Science And Technology Part A* 53 (6) , (2012) Pp. 235-239 ISSN 1098-0121

I. Avramov, E. Zanotto, M. Prado, Glass-Forming Ability Versus Stability Of Silicate Glasses *Journal Of Non-Crystalline Solids* 1320 (2003) 9–20 .ISSN 0022-3093

575. Q. Zheng, J. Mauro, M, Smedskjaer,R Youngman,M.Potuzak, Y Yue, J.Non-Cryst. Sol ., 358, 2012, Pp 658–665 ISSN: 0022-3093
576. Lu, K; Jin, T, *Materials Research Innovations*, 15 (6):386-390; 2011 ISSN: 1098-4402
577. Wisniewski, W., Schröter, B., Zscheckel, T., Rüssel, C. *Crystal Growth And Design*, 12 (3) Pp. (2012) 1586-1592. ISSN: 1098-4402
578. Štrbac, G.R.,lukić-petrović, S.R. ,štrbac, D.D.,petrović, D.M., J.Non-Cryst. Sol 358, 8, 2012, Pp 1146-1152 ISSN 0022-3093
579. Kozmidis-Petrovic, A; Sestak, J, *Journal Of Thermal Analysis And Calorimetry*, 110 (2):997-1004; 2012 ISSN 0034-6861

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

580. De Pablos-Martin, A; Duran, A; Pascual, Mj, *Nanocrystallisation In Oxyfluoride Systems: Mechanisms Of Crystallisation And Photonic Properties* *International Materials Reviews*, 57 (3):165-186; 2012 ISSN 1553-961X

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

- 581.** Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts j.Non-Cryst. Sol ., 358, 8, 2012, Pp 1202-1209 ISSN 0022-3093
- 582.** Jena, H., Maji, B.K., Asuvathraman, R., Govindan Kutty, K.V., Journal Of Non-Crystalline Solids, 358 (14)(2012) Pp. 1681-1686. ISSN 0022-3093

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

- 583.** Hua, W.M., Sum, W.P., Yew, E., Ibrahim, Z., Hussin, R. Advanced Materials Research, 501 (2012) Pp. 71-75. ISSN 1098-0121
- 584.** Jena, H., Maji, B.K., Asuvathraman, R., Govindan Kutty, K.V., Journal Of Non-Crystalline Solids, 358 (14) Pp. (2012)1681-1686. ISSN 0022-3093
- 585.** Castillo-Rogez, Jc; Johnson, Tv; Thomas, Pc; Choukroun, M; Matson, Dl; Lunine, Ji, Icarus, 219 (1):86-109; 2012 ISSN 1050-2947
- 586.** Ding, J., Zhao, G., Tian, Y., Chen, W., Hu, L., Optical Materials, 35 (1) (2012) Pp. 85 – 88 ISSN 1098-0121

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

- 587.** Allan, D.C .2012 Inverting The Myega Equation For Viscosity Journal Of Non-Crystalline Solids, 358 (2) Pp. 440-442., ISSN:0022-3093
- 588.** Selimis, A., Tserevelakis, G.J., Kogou, S., Pouli, P., Filippidis, G., Sapogova, N., Bityurin, N., Fotakis, C., Nonlinear Microscopy Techniques For Assessing The Uv Laser Polymer Interactions Optics Express, 20 (4) Pp. 3990-3996 (2012) ISSN 1094-4087
- 589.** Guo H.W., Wang, X.F., Gao, D.N. 1, Non-Isothermal Crystallization Kinetics And Phase Transformation Of Bi₂O₃-SiO₂ Glass-Ceramics Science Of Sintering,43 (3) Pp. 353-362.0 (2012) ISSN:0350-820x
- 590.** Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts J.Non-Cryst. Sol ., 358, 8, 2012, Pages 1202-1209 ISSN 0022-3093

- 591.** Chen, Z; Angell, Ca; Richert, R, On The Dynamics Of Liquids In Their Viscous Regime Approaching The Glass Transition European Physical Journal E, 35 (7):10.1140/epje/i2012-12065-2 Jul 2012 ISSN 1292-8941
- 592.** Sanditov, D.S., Munkueva, S.B., Mashanov, A.A., Sanditov, B.D., Glass Physics And Chemistry , 38 (4) (2012) Pp. 379 – 385 ISSN 1466-8033
- 593.** M. Ojovann Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B, August 2012, 53 (4), 143–150 ISSN 1098-0121
- 594.** Sen S., Entropic Vs. Elastic Models Of Fragility Of Glass-Forming Liquids: Two Sides Of The Same Coin J. Chemical Physics 137, Issue 16, 28 October 2012, Article Number 164505 ISSN 0021-9606

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

- 595.** Wisniewski, W., Schröter, B., Zscheckel, T., Rüssel, C.. Crystal Growth And Design, 12 (3) Pp.(2012) 1586-1592. ISSN 1550-7998
- 596.** Wisniewski, W., Otto, K., Rüssel, C., Crystal Growth And Design , 12 (10) Pp. (2012)5035 - 5041 . ISSN 1538-4489

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

- 597.** Zhu, C., Li, W., Nai, X., Zhu, D., Guo, F., Song, S. Preparation Of Copper Aluminum Borate Whiskers Via Flux Method, Crystal Research And Technology, 47 (1) Pp. 73-78., 2012ISSN: 0232-1300
- 598.** Yuan, L; Wang, Yq; Cai, Rs; Jiang, Qk; Wang, Jb; Li, Bq; Sharma, A; Zhou, Gw, Mater. Sci. And Eng. B-Advanced Functional Solid-State Materials, 177 (3):327-336; 2012 ISSN 1553-9636
- 599.** Lv Xiao-Long, Zhang Xia, Yan Xin, Liu Xiao-Long,Cui Jian-Gong, Li Jun-Shuai, Huang Yong-Qing, Ren Xiao-Min, Chin. Phys. Lett. Vol. 29, No. 12 (2012) 126102 ISSN 1538-4519

I.Avramov, J. Non-Crystalline Solids, Diffusion Coefficient Of Foreign Particles In Glassforming Melts 354/14 (2008) Pp.1537-1540 ISSN 0022-3093

- 600.** Moya, Js; Cabal, B; Sanz, J; Da Silva, Ac; Mello-Castanho, S; Torrecillas, R; Rojo, F, Materials Letters, 70 113-115; 2012 ISSN: 0167-577x

Adriyan S. Milev, Nguyen Tran, G. S. Kamali Kannangara, Michael A. Wilson, And Isak Avramov, Polymorphic Transformation Of Iron-Phthalocyanine And The Effect On Carbon Nanotube Synthesis J. Phys. Chem. C 2008, 112, 5339-5347, ISSN 1932-7447

- 601.** Lei, Yj; Zhao, R; Hu, Gh; Yang, Xl; Liu, Xb, Electromagnetic, Microwave-Absorbing Properties Of Ironphthalocyanine And Its Composites Based On Phthalocyanine Polymer Journal Of Materials Science , 47 (10):4473-4480;2012 ISSN: 0022-2461
- 602.** Lei, Yj; Zhao, R; Xu, Mz; Zhao, X; Yang, Xl; Guo, H; Zhong, Jc; Liu, Xb, Production Of Empty And Iron-Filled Multiwalled Carbon Nanotubes From Iron-Phthalocyanine Polymer And Their Electromagnetic Properties, Journal Of Materials Science-Materials In Electronics, 23 (4):921-927; 2012 ISSN: 0957-4522
- 603.** Chowdhury, A; Biswas, B; Majumder, M; Sanyal, Mk; Mallik, B, Studies On Phase Transformation And Molecular Orientation In Nanostructured Zinc Phthalocyanine Thin Films Annealed At Different Temperatures, Thin Solid Films, 520 (21):6695-6704; 2012 ISSN: 0040-6090
- 604.** Ding, J., Zhao, G., Tian, Y., Chen, W., Hu, L. Optical Materials 35, 1, 2012, Pp. 85 – 88 ISSN: 0022-2461

I.Avramov, T. Höche And G. Henderson, The Role Of Stress On Crystal Growth J. Non Cryst. Sol. 354 (2008) 4681-4684 ISSN 0022-3093

- 605.** Wisniewski, W., Schröter, B., Zscheckel, T., Rüssel, C.. Crystal Growth And Design, 12 (3) (2012) Pp. 1586-1592. ISSN 0022-3093
- 606.** Glazneva, T.S., Kaichev, V.V., Paukshtis, E.A., Khabibulin, D.F., Lapina, O.B., Bal'zhinimaev, B.S., Zhurba, E.N., Lavrinovich, I.A., Gavrikova, I.N., Shumskii, V.I., Trofimov, A.N. Structure And Composition Of The Surface Layer Of Zr-Containing Fiberglass Materials Journal Of Non-Crystalline Solids Volume 358, Issue 8, Year 2012, Pp. 1053 – 1058 ISSN 0022-3093

I.Avramov, The Role Of Stress On Initial Stages Of Crystal GrowthJ. Of Non-Crystalline Solids 354 (2008) 4959–4961, ISSN 0022-3093

- 607.** Wisniewski, W., Schröter, B., Zscheckel, T., Rüssel, C.. Crystal Growth And Design, 12 (3) Pp. (2012) 1586-1592. ISSN: 0022-3093
- 608.** Wisniewski, W., Otto, K., Rüssel, C., Crystal Growth And Design, 12 (10) Pp. (2012)5035 - 5041 . ISSN: 0022-3093

I.Avramov, Ch. Tzvetkova,Ts. Vassilev, “kinetics Of Relaxation And Crystallization Of Sodium Metaphosphate Glass” Journal Of Non-Crystalline Solids 355 (2009) 23–28 ISSN 0022-3093

- 609.** Guo H.W., Wang, X. F., Gao, D. N., 1, Non-Isothermal Crystallization Kinetics And Phase Transformation Of Bi₂O₃-SiO₂ Glass-Ceramics Science Of Sintering, 43 (3) Pp. 353-362.0 (2012) ISSN: 0350-820x

I.Avramov, Relationship Between Diffusion, Self-Diffusion And Viscosity Journal Of Non-Crystalline Solids 355 (2009) 745–747 ISSN 0022-3093

- 610.** Hu, Zz; Schneider, Cm; Price, Cn; Pye, Wm; Dawe, Ln; Kerton, Fm, European Journal Of Inorganic Chemistry, (11):1773-1782; 2012 ISSN: 1553-9644
- 611.** Kirchhof, J; Unger, S; Dellith, J; Scheffel, A; Teichmann, C, Optical Materials Express, 2 (5):534-547; 2012 ISSN: 0350-820x
- 612.** Mishra, Rk; Vedeshwar, Ag; Tandon, Rp, The Role Of Glass-Viscosity On The Growth Of Semiconductor Quantum Dots In Glass Matrices J. Appl. Phys. , 111 (9): 2012, ISSN: 0021-8979
- 613.** Salih, Hh; Sorial, Ga; Patterson, Cl; Sinha, R; Krishnan, Er, Water Air And Soil Pollution, 223 (5):2837-2847; 2012 ISSN: 1586-1592
- 614.** Kumar Mishra, R., Vedeshwar, A.G., Tandon, R.P, Journal Of Applied Physics, 111 (9),(2012) Art. No. 094315 ISSN 0021-8979

Bhattacharyya, S., Höche, T., Jinschek, J.R., Avramov, I., Wurth, R., Müller, M., Rüssel C., “direct Evidence Of Al-Rich Layers Around Nanosized Zrtio₄ In Glass: Putting The Role Of Nucleation Agents In Perspective”Crystal Growth And Design, 10 (.2010) Pp. 379-385. ISSN 1528-7483

- 615.** O. Ovono, D., Berre, S., Pradeau, P., Comte, M., Bruno, G. 2012 Thermochimica Acta 527, Pp. 158-164 ISSN: 0022-3093
- 616.** Fernandez-Martin, C; Bruno, G; Crochet, A; Ovono, Do; Comte, M; Hennet,L. Journal Of The American Ceramic Society, 95 (4):1304-1312; 2012 ISSN: 0022-3093
- 617.** Dargaud, O; Cormier, L; Menguy, N; Patriarche, G, J. Non-Cryst.Sol., 358 (10):1257-1262; 2012, ISSN: 0022-3093

C. Bocker, I. Avramov, C Ruessel, Experimental Evidence Of High Pressure During Crystallization Of Glass – The Formation Of An Orthorhombic High-Pressure BaF₂ Phase Scripta, Materialia 62 (2010) 814–817 ISSN 1553-9644

- 618.** Galca, Ac; Preda, N; Secu, Ce; Luculescu, Cr; Secu, M, Spectroscopic Ellipsometry Investigations Of Eu-Doped Oxy-Fluoride Glass And Glass-Ceramics, Optical Materials, 34 (8):1493-1496; 2012 ISSN 0022-3093
- 619.** De Pablos-Martin, A; Duran, A; Pascual, Nanocrystallisation In Oxyfluoride Systems: Mechanisms Of Crystallisation And Photonic Properties Mj, International Materials Reviews, 57 (3):165-186; 2012, ISSN: 0022-3093

C. Bocker, I. Avramov, C. Russel, Viscosity And Diffusion Of Barium And Fluoride In Na₂O/K₂O/Al₂O₃/SiO₂/BaF₂ Glasses Chemical Physics 369 (2010) 96–100 ISSN: 0021-9606

- 620.** Shinozaki, K.; Honma, T.; Oh-Ishi, K.; Komatsu, T. Fluorine Deficient Layer At The Surface Of Transparent Glass-Ceramics With Caf 2 Nanocrystals, Journal Of Physics And Chemistry Of Solids, 73 (5):683-687; 2012 ISSN: 0022-3093
- 621.** Kioka, K; Honma, T; Oh-Ishi, K; Reibstein, S; Da, N; Wondraczek, L; Komatsu, T, Effect Of Al 2o 3 Addition On The Formation Of Perovskite-Type Nanbo 3 Nanocrystals In Silicate-Based Glasses Journal Of Non-Crystalline Solids, 358 (12-13):1523-1529; 1 2012 ISSN: 0022-3093
- 622.** De Pablos-Martin, A; Duran, A; Pascual, Nanocrystallisation In Oxyfluoride Systems: Mechanisms Of Crystallisation And Photonic Properties Mj, International Materials Reviews, 57 (3):165-186; 2012 ISSN: 0022-3093

I.Avramov, Interrelation Between The Parameters Of Equations Of Viscous Flow And Chemical Composition Of Glassforming Melts J. Non Cryst, Sol. 357 (2011) 391–396. ISSN 0022-3093

- 623.** Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts J.Non-Cryst. Sol ., 358, 8, 2012, Pp. 1202-1209 ISSN: 0022-3093
- 624.** M. Ojovann Viscous Flow And The Viscosity Of Melts And Glasses Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B, 2012, 53 (4), 143–150 ISSN: 0022-3093
- 625.** Fernandez-Martin, C., Bruno, G., Crochet, A., Ovono Ovono, D., Comte, M., Hennet, L. , Nucleation And Growth Of Nanocrystals In Glass-Ceramics: An In Situ Sans Perspective, Crystal Growth And Design 12 (3) , Pp. 1556-1563 ISSN 0022-3093

I.Avramov, "Dependence Of The Parameters Of Equations Of Viscous Flow On Chemical Composition Of Silicate Melts" J. Non-Cryst. Sol. 357 (2011) Pp. 3841-3846, ISSN: 0022-3093

- 626.** Ana F. Kozmidis-Petrović, 3d Diagrams Of Equations Of Viscous Flow Of Silicate Glass-Forming Melts J. Non-Cryst. Sol ., 358, 8, 15 2012, Pp 1202-1209 ISSN: 0022-3093
- 627.** Flores-Ruiz, H.M., Naumis, G.G. ,mean-square-displacement Distribution In Crystals And Glasses: An Analysis Of The Intrabasin Dynamics, Physical Review E - Statistical, Nonlinear, And Soft Matter Physics 85 (4) , Art. No. 041503 ISSN 1466-8033

D. Kashchiev, "Solution of the non-steady state problem in nucleation kinetics", Surface Sci. 14(1969)209 ISSN: 0039-6028

- 628.** Guo, Y.-L., Wang, J.-C., Wang, Z.-J., Tang, S., Zhou, Y.-H. "Phase field crystal model for the effect of colored noise on homogenous nucleation", Physica Sinica 61 (2012) 146401. ISSN:1000-3290
- 629.** G.A.Sycheva, V.V.Golubkov, "Reduction of crystallization ability of sodium zinc phosphate glass under X-ray radiation", Glass Phys.Chem. 38(2012)290. ISSN: 1087-6596
- 630.** G.A.Sycheva, in: "Crystallization and Materials Science of Modern Artificial and Natural Crystals", Ed. E.Borisenko, InTech, Rijeka, 2012, p.23.
- 631.** E.Mollard, "Cinétiques syn-éruptives de cristallisation des plagioclases dans les magmas différenciés", Ph.D.Thesis, Universite d'Orleans, Orleans, 2012.

D.Kashchiev, "Nucleation at existing cluster size distributions", Surface Sci. 18 (1969) 389 ISSN: 0039-6028

- 632.** Nordström, F.L., Svärd, M., Malmberg, B., Rasmuson, Å.C. "Influence of solution thermal and structural history on the nucleation of m-hydroxybenzoic acid polymorphs", Cryst.Growth Des. 12(2012)4340. ISSN:1528-7483

D.Kashchiev, "Nucleation in external electric field", J.Cryst.Growth 13/14(1972)128 ISSN: 0022-0248

- 633.** N. Radacs, Ph.D.Thesis, Delft University of Technology, Delft, 2012.

I.Markov, D.Kashchiev, "The role of active centers in the kinetics of new phase formation", J.Cryst.Growth 13/14(1972)131 ISSN: 0022-0248

- 634.** R. Lazzari, J. Jupille, Growth kinetics and size-dependent wetting of Ag/ α -Al₂O₃(0001) nanoparticles studied via the plasmonic response , Nanotechnol. 23(2012)135707. ISSN: 0957-4484
- 635.** Kožíšek, Z., Hikosaka, M., Okada, K., Demo, P. "Nucleation on active centers in confined volumes", J.Chem.Phys. 136 (2012) 164506. ISSN: 0021-9606

I.Markov, D. Kashchiev, "Nucleation on active centres. I. General theory", J.Cryst.Growth 16(1972)170 ISSN: 0022-0248

- 636.** R. Lazzari, J. Jupille, Growth kinetics and size-dependent wetting of Ag/ α -Al₂O₃(0001) nanoparticles studied via the plasmonic response, Nanotechnol. 23 (2012) 135707. ISSN:0957-4484

I.Markov, D.Kashchiev, "The effect of substrate inhomogeneity on the kinetics of heterogeneous nucleation from vapours", Thin Solid Films 15(1973)181 ISSN-00406090

- 637.** Kim, H., Mattevi, C., Calvo, M.R., Oberg, J.C., Artiglia, L., Agnoli, S., Hirjibehedin, C.F., Saiz, E. "Activation energy paths for graphene nucleation and growth on Cu", ACS Nano 6 (2012) 3614. ISSN: 1936-0851

D.Kashchiev, A.Milchev, "Kinetics of the initial stage of electrolytic deposition of metals. I. General theory", Thin Solid Films 28(1975)189 ISSN-00406090

- 638.** Laćnjevac, U., Jović, B. M., Jović, V. D., Electrodeposition of Ni, Sn and Ni-Sn alloy coatings from pyrophosphate-glycine bath, Electrochim. Soc. 159 (2012) D310. ISSN: 0013-4651

D.Kashchiev, "Growth kinetics of dislocation-free interfaces and growth mode of thin films", J.Cryst.Growth 40(1977)29 ISSN: 0022-0248

- 639.** Khodan, A. N., Kanashenko, S. L., Crete, D.-G., Kinetics of formation and growth of epitaxial SrTiO₃ films of single-crystal (001) SrTiO₃ supports, Protect. Metals and Phys. Chem. Surf. 48 (2012) 59. ISSN: 0033-1732

D. Kashchiev, J. P. van der Eerden, C. van Leeuwen, "Transition from island to layer growth of thin films: a Monte Carlo simulation", J. Cryst. Growth 40 (1977) 47 ISSN: 0022-0248

- 640.** R.Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

J. P. van der Eerden, D. Kashchiev, P. Bennema, "Surface migration of small crystallites: a Monte Carlo simulation with continuous time", J. Cryst. Growth 42 (1977) 31 ISSN: 0022-0248

- 641. Ozawa, K., Nagahara, H., Morioka, M., Matsumoto, N., Hutcheon, I.D., Noguchi, T., Kagi, H., Kinetics of evaporation of forsterite in vacuum, Amer. Mineralogist 97 (2012) 80. ISSN: 0003-004X
- 642. R. Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

D. Kashchiev, "Mean thickness at which vapour-deposited thin films reach continuity", Thin Solid Films 55 (1978) 399 ISSN-00406090

- 643. C. Henry, C. Barth, in: "Nanoalloys, Engineering Materials", Eds. D.Alloyeau et al., Springer, London, 2012, p.25. ISBN 978-1-4471-4013-9
- 644. Cabailh, G., Henry, C.R., Barth, C., Thin NaCl films on silver (001): Island growth and work function, New J.Phys. 14(2012)103037. ISSN:1367-2630

D. Kashchiev, "Growth of crystallites in deposition from vapours", Phys. Stat. Sol. (a) 64 (1981) 715

- 645. Khodan, A.N., Kanashenko, S.L., Crete, D.-G., Kinetics of formation and growth of epitaxial SrTiO₃ films of single-crystal (001) SrTiO₃ supports, Protect.Metals and Phys.Chem.Surf. 48 (2012) 59. ISSN: 0033-1732
- 646. C. Henry, C. Barth, in: "Nanoalloys, Engineering Materials", Eds. D.Alloyeau et al., Springer, London, 2012, p.25. ISBN 978-1-4471-4013-9 ISBN-10: 1447140133

S.Stoyanov, D.Kashchiev, "Thin film nucleation and growth theories: a confrontation with experiment", in: "Current Topics in Materials Science", Vol.7, Ed. E.Kaldis, North-Holland, 1981, p.69 ISBN: 044486024X 9780444860248

- 647. S. N.Filimonov, Y.Y.Hervieu, Kinetics of two-dimensional island nucleation on reconstructed surfaces , Phys. Rev. B 85 (2012) 045423., ISSN:1098-0121
- 648. Khodan, A.N., Kanashenko, S.L., Crete, D.-G., Protect.Metals and Phys.Chem.Surf. 48(2012)59. ISSN:0033-1732
- 649. Poon, S.W., Wee, A.T.S., Tok, E.S., "Anomalous scaling behaviour of cobalt cluster size distributions on graphite, epitaxial graphene and carbon-rich ($6\sqrt{3} \times 6\sqrt{3}$)R30°", Surf.Sci. 606(2012)1586. ISSN:0039-6028
- 650. T. J. Oliveira, F. D. A. Aarao-Reis, "Crossover in the scaling of island size and capture zone distributions", Phys. Rev. B 86 (2012) 115402. ISSN: 1098-0121

- 651.** Z. Chen et al., "Preparation methodologies and nano/microstructural evaluation of metal/semiconductor thin films", J.Nanosci.Nanotechnol. 12 (2012) 26. ISSN: 1533-4880,

D. Kashchiev, "On the relation between nucleation work, nucleus size and nucleation rate", J.Chem.Phys. 76 (1982) 5098 ISSN: 0021-9606

- 652.** Römer, F., Fischer, B., Kraska, T., Investigation of the nucleation and growth of methanol clusters from supersaturated vapor by molecular dynamics simulations, Soft Materials 10(2012)130. ISSN:1539-445X
- 653.** K.A.Mullick, Ph.D.Thesis, Ohio State University, Columbus (OH), 2012.
- 654.** Vehkamäki, H., McGrath, M.J., Kurtán, T., Julin, J., Lehtinen, K.E.J., Kulmala, M. Rethinking the application of the first nucleation theorem to particle formation ,J.Chem.Phys. 136(2012)094107. ISSN:0021-9606
- 655.** P.G.Vekilov, Phase diagrams and kinetics of phase transitions in protein solutions, J.Phys.Cond.Matter 24(2012)193101. ISSN:0953-8984
- 656.** Fager, A.J., Liu, J., Garrick, S.C. , Hybrid simulations of metal particle nucleation: A priori and a posteriori analyses of the effects of unresolved scalar interactions on nanoparticle nucleation , Phys.Fluids 24(2012)075110. ISSN:1070-6631
- 657.** A. S. Bhabhe, Ph.D.Thesis, The Ohio State University, Columbus (Ohio), 2012.
- 658.** S.Cooper et al., in: "Crystallization – Science and Technology", Ed. M.R.B.Andreeta, InTech, Rijeka, 2012, p.121. ISBN 978-953-51-0757-6
- 659.** McGraw, R., Wang, J., Kuang, C., "Kinetics of heterogeneous nucleation in supersaturated vapor: fundamental limits to neutral particle detection revisited", Aeros.Sci.Technol. 46(2012)1053. ISSN: 1270-9638
- 660.** Manka, A.A., Wedekind, J., Ghosh, D., Höhler, K., Wölk, J., Strey, R. "Nucleation of ethanol, propanol, butanol, and pentanol: A systematic experimental study along the homologous series", J.Chem.Phys. 137(2012)054316. ISSN 0021-9606
- 661.** Pedersen, J.O.P., Enghoff, M.B., Paling, S.M., Svensmark, H. "Aerosol nucleation in an ultra-low ion density environment", J.Aeros.Sci. 50(2012)75. ISSN: 0021-8502
- 662.** P. Yi, G. C. Rutledge, "Molecular origins of homogeneous crystal nucleation", Annu. Rev. Chem. Biomol. Eng. 3 (2012) 157. ISSN: 1947-5438

- 663.** Q. An, "Atomistic simulations of material properties under extreme conditions", Ph.D.Thesis, California Institute of Technology, Pasadena (CA), 2012.
- 664.** R. Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.
- 665.** D. Suh, K. Yasuoka, "Nanoparticle Growth Analysis by Molecular Dynamics: Cubic Seed", J.Phys.Chem. B 116(2012)14637. ISSN (printed): 1089-5647

D. Kashchiev, "The Kinetic Approach to Nucleation", Cryst. Res. Technol. 19 (1984) 1413

- 666.** K. A. Riekki, I.T.Koponen, "Size selected growth of nanodots: Ion beam assisted deposition and transition from 2D to 3D growth", Nucl.Instrum.Meth.Phys.Res. B 290 (2012) 48. ISSN: 0168-583X
- 667.** K.A.Riekki, "Size selected growth of nanodots: Analytical prediction for the selected size", Eur.Phys.J. B 85(2012)185. ISSN 1361-6404
- 668.** Y.Y.Diao, X.Y.Liu, "Controlled colloidal assembly: Experimental modeling of general crystallization and biomimicking of structural color", Adv.Funct.Mater. 22(2012)1354. nline ISSN: 1616-3028
- 669.** K.A.Riekki, "Reaction Kinetic Modelling of size selected growth of nanodots", M.Sc.Thesis, Helsinki University, Helsinki, 2012.
- 670.** X.Y.Liu, Y.Y.Diao, "Modeling of Biominerization and Structural Color Biomimetics by Controlled Colloidal Assembly", in: "Bioinspiration: From Nano to Macro Scales", Ed. X.Y.Liu, Springer, New York, 2012, p.221. ISBN-10: 1461453038

D.Kashchiev, "Nucleation at changing density of monomers", Cryst. Res. Technol. 20 (1985) 723

- 671.** Latteyer, F., Savu, S., Peisert, H., Chassó, T. "Self-assembly and structure formation in liquid crystalline phthalocyanine thin films studied by Raman spectroscopy and AFM", J. Raman Spectrosc. 43 (2012) 1227. ISSN: 1097-4555

W. Obretenov, D. Kashchiev, V. Bostanov, "Unified description of the rate of nucleation-mediated crystal growth", J. Cryst. Growth 96(1989)843 ISSN: 0022-0248

- 672.** Brynjulfsen, I., Fujiwara, K., Usami, N., Arnberg, L. "Growth velocity and grain size of multicrystalline solar cell silicon", J.Cryst.Growth 356(2012)17. ISSN: 0022-0248

D. Kashchiev, D. Verdoes, G. M. van Rosmalen, "Induction time and metastability limit in new phase formation", J.Cryst.Growth 110(1991)373 ISSN: 0022-0248

- 673.** Ildefonso, M., Candoni, N., Veesler, S., A cheap, easy microfluidic crystallization device ensuring universal solvent compatibility, *J. Cryst. Growth* 342 (2012) 9. ISSN: 0022-0248
- 674.** N. Gherras, G. Fevotte, Comparison between approaches for the experimental determination of metastable zone width: A case study of the batch cooling crystallization of ammonium oxalate in water, *J. Cryst. Growth* 342(2012)88. ISSN: 0022-0248
- 675.** N. Kubota, Effect of sample volume on metastable zone width and induction time, *J. Cryst. Growth* 345(2012)27. ISSN: 0022-0248
- 676.** Candoni, N., Hammadi, Z., Grossier, R., Ildefonso, M., Revalor, E., Ferté, N., Okutsu, T., Veesler, S., Nanotechnologies dedicated to nucleation control, *Intern.J.Nanotechnol.* 9(2012)439. ISSN:1475-7435
- 677.** Manka, A., Pathak, H., Tanimura, S., Wölk, J., Strey, R., Wyslouzil, B.E., Freezing water in no-man's land, *Phys.Chem.Chem.Phys.* 14(2012)4505. ISSN:1463-9076
- 678.** Dursch, T.J., Ciontea, M.A., Radke, C.J., Weber, A.Z., Isothermal ice crystallization kinetics in the gas-diffusion layer of a proton-exchange-membrane fuel cell, *Langmuir* 28(2012)1222. ISSN:0743-7463
- 679.** A. S. Bhabhe, Ph.D.Thesis, The Ohio State University, Columbus (Ohio), 2012.
- 680.** N. Gherras, G. Fevotte, "On the use of process analytical technologies and population balance equations for the estimation of crystallization kinetics. A case study", *AIChE J.* 58 (2012) 2650. Online ISSN: 1547-5905
- 681.** Kobari, M., Kubota, N., Hirasawa, I., "Secondary nucleation-mediated effects of stirrer speed and growth rate on induction time for unseeded solution", *Cryst.Eng.Comm.*
- 682.** Maeki, M., Yamaguchi, H., Yamashita, K., Nakamura, H., Miyazaki, M., Maeda, H. "A method for generating single crystals that rely on internal fluid dynamics of microdroplets", *Chem.Comm.* 48(2012)5037. ISSN:1359-7345
- 683.** Ildefonso, M., Candoni, N., Veesler, S., "A cheap, easy microfluidic crystallization device ensuring universal solvent compatibility", *Org. Proc. Res. Develop.* 16 (2012) 556. ISSN: 1083-6160

- 684.** Saw, V.K., Ahmad, I., Mandal, A., Udayabhanu, G., Laik, S. "Methane hydrate formation and dissociation in synthetic seawater", J.Natur.Gas Chem. 21(2012)625. ISSN:1003-9953

D.Verdoes, D.Kashchiev, G.M. van Rosmalen, "Determination of nucleation and growth rates from induction times in seeded and unseeded precipitation of calcium carbonate", J.Cryst.Growth 118 (1992) 401 ISSN: 0022-0248

- 685.** A. I. Vavouraki, P. G. Koutsoukos, Kinetics of crystal growth of mirabilite in aqueous supersaturated solutions, Cryst. Growth 338 (2012) 189. ISSN: 0022-0248
- 686.** N. Gherras, G. Fevotte, Comparison between approaches for the experimental determination of metastable zone width: A case study of the batch cooling crystallization of ammonium oxalate in water, Cryst.Growth 342(2012)88. ISSN: 0022-0248 ISSN: 0022-0248
- 687.** Alonso, D.E., Raina, S., Zhou, D., Gao, Y., Zhang, G.G.Z., Taylor, L.S.., Characterizing the impact of hydroxypropylmethyl cellulose on the growth and nucleation kinetics of felodipine from supersaturated solutions, Crystal Growth and Design. 12(2012)1538. ISSN: 0022-0248
- 688.** M. Fricke, K. Sundmacher, Emulsion-assisted nanoparticle precipitation: Time scale analysis and dynamic simulation, Industr. Eng. Chem. Res. 51 (2012) 1579. ISSN: 0888-5885
- 689.** Wagterveld, R.M., Miedema, H., Witkamp, G.-J. "Effect of ultrasonic treatment on early growth during CaCO₃ precipitation", Cryst.Growth Des. 12(2012)4403. ISSN:1528-7483
- 690.** N. Gherras, G.Fevotte, "On the use of process analytical technologies and population balance equations for the estimation of crystallization kinetics. A case study", AIChE J. 58 (2012) 2650. Online ISSN: 1547-5905

D. Exerowa, D. Kashchiev, D. Platikanov, "Stability and permeability of amphiphile bilayers", Adv.Colloid Interface Sci. 40 (1992) 201 ISSN: 0001-8686

- 691.** Tabor, R. F., Grieser, F., Dagastine, R. R., Chan, D. Y. C., Measurement and analysis of forces in bubble and droplet systems using AFM, J. Coll. Interf. Sci. 371 (2012) 1. ISSN: 0021-9797
- 692.** Ohtomi, E., Ikeda, N., Tokiwa, Y., Watanabe, I., Tanida, H., Takue, T., Aratono, M., Matsubara, H. "Thin-Thick transition of foam film driven by phase transition of surfactantalkane mixed adsorbed film", Chem.Lett. 41(2012)1300. ISSN:0366-7022

693. N. N. Bremond, J. Bibette, "Exploring emulsion science with microfluidics", Soft Matter 8 (2012) 10549. ISSN: 1744-683X

694. Thiam, A.R., Bremond, N., Bibette, J. "From stability to permeability of adhesive emulsion bilayers", Langmuir 28(2012)6291. ISSN:0743-7463

M. C. van der Leeden, D. Kashchiev, G. M. van Rosmalen, "Effect of additives on nucleation rate, crystal growth rate and induction time in precipitation", J. Cryst. Growth 130 (1993) 221 ISSN: 0022-0248

695. Alonso, D. E., Raina, S., Zhou, D., Gao, Y., Zhang, G.G.Z., Taylor, L.S., Characterizing the impact of hydroxypropylmethyl cellulose on the growth and nucleation kinetics of felodipine from supersaturated solutions, Cryst.Growth Des. 12 (2012) 1538. ISSN:1528-7483

D. Kashchiev, A. Firoozabadi, "Kinetics of the initial stage of isothermal gas phase formation", J. Chem. Phys. 98 (1993) 4690 ISSN: 0021-9606

696. P. J. Skrdla, Use of dispersive kinetic models for nucleation and denucleation to predict steady-state nanoparticle size distributions and the role of Ostwald ripening, J.Phys.Chem. C 116(2012)214. ISSN:1932-7447

D. W. Oxtoby, D. Kashchiev, "A general relation between the nucleation work and the size of the nucleus in multicomponent nucleation", J.Chem.Phys. 100 (1994) 7665 ISSN: 0021-9606

697. Römer, F., Fischer, B., Kraska, T., Investigation of the nucleation and growth of methanol clusters from supersaturated vapor by molecular dynamics simulations, Soft Materials 10 (2012) 130. ISSN:1539-445X

698. K. A. Mullick, Ph.D.Thesis, Ohio State University, Columbus (OH), 2012.

699. Gurashkin, A.L., Starostin, A.A., Ermakov, G.V., Skripov, P.V., Communication: High speed optical investigations of a character of boiling-up onset, J.Chem.Phys. 136(2012)021102. ISSN:0021-9606

700. Winkler, P.M., Vrtala, A., Steiner, G., Wimmer, D., Vehkamki, H., Lehtinen, K.E.J., Reischl, G.P., Wagner, P.E., Quantitative characterization of critical nanoclusters nucleated on large single molecules , Phys.Rev.Lett. 108(2012)085701. ISSN:0031-9007

701. Vehkämäki, H., McGrath, M. J., Kurtán, T., Julin, J., Lehtinen, K. E. J., Kulmala, M., Rethinking the application of the first nucleation theorem to particle formation, J. Chem. Phys. 136 (2012) 094107. ISSN: 0021-9606

- 702.** Zhang, R., Khalizov, A., Wang, L., Hu, M., Xu, W., Nucleation and growth of nanoparticles in the atmosphere , Chem.Rev. 112(2012)1957. ISSN: 0009-2665
- 703.** P.G.Vekilov, Phase diagrams and kinetics of phase transitions in protein solutions, J.Phys.Cond.Matter 24(2012)193101. ISSN: 0953-8984
- 704.** A. Arvengas, "Cavitation acoustique dans l'eau et quelques liquides organiques: densité et limite de rupture", Ph.D.Thesis, Universite Denis Diderot, Paris, 2012.
- 705.** Caupin, F., Arvengas, A., Davitt, K., Azouzi, M. E. M., Shmulovich, K.I., Ramboz, C., Sessoms, D. A., Stroock, A.D., Exploring water and other liquids at negative pressure, J.Phys.Cond.Matt. 24(2012)284110. ISSN: 0953-8984
- 706.** M. A. L. J. Fransen et al., in: "EAC-2012 Digital Handbook", European Aerosol Conference, Granada, 2012, p.348.
- 707.** A. S. Bhabhe, Ph.D.Thesis, The Ohio State University, Columbus (Ohio), 2012.
- 708.** B.Carreon-Calderon, Theoretical study of vapor-liquid homogeneous nucleation using stability analysis of a macroscopic phase , J.Chem.Phys. 137(2012)144104. ISSN: 0021-9606
- 709.** S.Cooper et al., in: "Crystallization – Science and Technology", Ed. M.R.B.Andreeta, InTech, Rijeka, 2012, p.121. ISBN 978-953-51-0757-6
- 710.** Manka, A.A., Wedekind, J., Ghosh, D., Höhler, K., Wölk, J., Strey, R. "Nucleation of ethanol, propanol, butanol, and pentanol: A systematic experimental study along the homologous series", J.Chem.Phys. 137(2012)054316. ISSN:0021-9606
- 711.** P. Yi, G. C. Rutledge, "Molecular origins of homogeneous crystal nucleation", Annu. Rev. Chem. Biomol. Eng. 3 (2012) 157. ISSN (Print) 1947-5438
- 712.** Zollner, J.H., Glasoe, W.A., Panta, B., Carlson, K.K., McMurry, P.H., Hanson, D. R. "Sulfuric acid nucleation: Power dependencies, variation with relative humidity, and effect of bases", Atmos. Chem. Phys. 12 (2012) 4399. ISSN: 1680-7316
- 713.** D.Kashchiev, D.Clausse, C.Jolivet-Dalmazzone, "Crystallization and critical supercooling of disperse liquids", J.Colloid Interface Sci. 165(1994)148
- 714.** Ildefonso, M., Revalor, E., Punniar, P., Salmon, J.B., Candoni, N., Veesler, S.,

Nucleation and polymorphism explored via an easy-to-use microfluidic tool, J. Cryst. Growth 342 (2012) 9. ISSN: 0022-0248

715. Maeki, M., Yamaguchi, H., Yamashita, K., Nakamura, H., Miyazaki, M., Maeda, H., "A method for generating single crystals that rely on internal fluid dynamics of microdroplets", Chem. Comm. 48 (2012) 5037. ISSN: 1359-7345

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

716. Murray, B. J., O'Sullivan, D., Atkinson, J. D., Webb, M. E., Ice nucleation by particles immersed in supercooled cloud droplets, Chem.Soc.Rev. 41(2012)6519. ISSN: 0306-0012
717. Reinhardt, A., Doye, J. P. K., Noya, E. G., Vega, C. "Local order parameters for use in driving homogeneous ice nucleation with all-atom models of water", J.Chem.Phys. 137 (2012) 194504. ISSN: 0021-9606

D. Kashchiev, G. M. van Rosmalen, "Effect of pressure on nucleation in bulk solutions and solutions in pores and droplets", J. Colloid Interface Sci. 169 (1995) 214

718. A. I. Vavouraki, P. G. Koutsoukos, Kinetics of crystal growth of mirabilite in aqueous supersaturated solutions, J.Cryst.Growth 338 (2012) 189. ISSN: 0022-0248
719. Sobczak, J. J., Drenchev, L., Asthana, R., Effect of pressure on solidification of metallic materials, Intern.J.Cast Metals Res. 25(2012)1. ISSN:1364-0461
720. Wei, G.-F., Fang, S.-Q., Zhang, B.-J., Wang, X.-Q., Li, Z.-G., "Study on the mechanism of Liesegang pattern development during carbonating of traditional sticky rice-lime mortar", Spectrosc.Spectral Analysis (China) 32(2012)2181. ISSN:1000-0593

D. Kashchiev, "Nucleation", in: "Science and Technology of Crystal Growth", Eds. J.P. van der Eerden, O. S. L. Bruinsma, Kluwer, Dordrecht, 1995, p.53

721. P. G. Vekilov, Phase diagrams and kinetics of phase transitions in protein solutions, J.Phys.Cond.Matter, 24(2012)193101., ISSN: 0953-8984

A. Firoozabadi, D. Kashchiev, "Pressure and volume evolution during gas phase formation in solution gas drive processes", SPE J. 1 (1996) 219 ISSN: 1086-055X

722. Zuo, L., Krevor, S., Falta, R.W., Benson, S.M., An Experimental Study of CO₂ Exsolution and Relative Permeability Measurements During CO₂

Saturated Water Depressurization, Transp.Porous Media 91(2012)459. 0169-3913

723. Buchgraber, M., Kovscek, A.R., Castanier, L.M. "A Study of Microscale Gas Trapping Using Etched Silicon Micromodels", Transp.Porous Media 95(2012)647. ISSN: 0169-3913

D. Kashchiev, N. Kaneko, K. Sato, "Kinetics of crystallization in polydisperse emulsions", J. Colloid Interface Sci. 208(1998)167 ISSN: 0021-9797

724. Khalil, A., Puel, F., Cosson, X., Gorbatchev, O., Chevalier, Y., Galvan, J.-M., Rivoire, A., Klein, J.-P. J. Cryst. Growth 342 (2012) 99. ISSN: 0022-0248
725. Kousksou, T., El Rhafiki, T., Mahdaoui, M., Bruel, P., Zeraouli, Y., Crystallization of supercooled PCMs inside emulsions: DSC applications, Solar Energy Mater. Solar Cells 107(2012)28. ISSN:0927-0248

D. Kashchiev, K.Sato, "Kinetics of crystallization preceded by metastable-phase formation", J. Chem. Phys. 109 (1998) 8530 ISSN: 0021-9606

726. M. Iwamatsu, A note on the nucleation with multiple steps: Parallel and series nucleation J. Chem. Phys. 136 (2012) 04470, **ISSN: 0021-9606**
727. R.P.Sear, The non-classical nucleation of crystals: Microscopic mechanisms and applications to molecular crystals, ice and calcium carbonate Intern., Mater. Rev. 57 (2012) 328. ISSN: 0950-6608
728. M. Iwamatsu, Steady-state nucleation rate and flux of composite nucleus at saddle point, J.Chem.Phys. 136 (2012) 204702. ISSN: 0021-9606
729. M. Iwamatsu, "Nucleation pathway of core-shell composite nucleus in size and composition space and in component space", Phys.Rev. E 86 (2012) 041604. ISSN: 1539-3755

D. Kashchiev, D. Exerowa, "Structure and surface energy of the surfactant layer on the alveolar surface", Eur. Biophys. J. 30 (2001) 34

730. Jiang, L. X., Huang, J. B., Bahramian, A., Li, P. X., Thomas, R. K., Penfold, J., Surface behavior, aggregation and phase separation of aqueous mixtures of dodecyl trimethylammonium bromide and sodium oligoarene sulfonates: The transition to polyelectrolyte/surfactant behavior, Langmuir 28 (2012) 327. ISSN: 0743-7463

D. Kashchiev, A. Firoozabadi, "Driving force for crystallization of gas hydrates", J. Cryst. Growth 241 (2002) 220 ISSN: 0022-0248

- 731.** D. Parks, R. Amin, Novel subsea gas dehydration process, the process plant and dehydration performance, *J. Petrol. Sci. Eng.* 81 (2012) 94. ISSN: 0920-4105
- 732.** Maeda, N., Wells, D., Hartley, P.G., Kozielski, K.A..., Statistical analysis of supercooling in fuel gas hydrate systems , *Energy Fuels* 26(2012)1820. ISSN: 0887-0624
- 733.** Mohebbi, V., Naderifar, A., Behbahani, R.M., Moshfeghian, M.., "Investigation of kinetics of methane hydrate formation during isobaric and isochoric processes in an agitated reactor", *Chem.Eng.Sci.* 76(2012)58. ISSN:0009-2509
- 734.** Zhang, J., Di Lorenzo, M., Pan, Z.,, "Effect of surface energy on carbon dioxide hydrate formation", *J. Phys. Chem. B* 116 (2012) 7296. ISSN: 1520-6106
- 735.** Smith, J.D., Meuler, A.J., Bralower, H.L., Venkatesan, R., Subramanian, S., Cohen, R.E., McKinley, G.H., Varanasi, K.K. "Hydrate-phobic surfaces: Fundamental studies in clathrate hydrate adhesion reduction", *Phys.Chem.Chem.Phys.* 14 (2012) 6013. ISSN:1463-9076
- 736.** S. Liu, "Double mechanism of CH₄-CO₂ replacement in hydrate: Vacancy assistance and competition", *Chem.Bull. (Huaxue Tongbao)* 75 (2012) 126. ISSN: 0441-3776
- 737.** C.L.Wang et al., "Research Progress on the Driving Force of Gas Hydrate Formation", *Adv.Mater.Res.* 616-618(2012)902. ISSN: 1022-6680

D. Kashchiev, A. Firoozabadi, "Nucleation of gas hydrates", *J. Cryst. Growth* 243 (2002) 476 ISSN: 0022-0248

- 738.** I. M. Townson, M. Sc. Thesis, University of British Columbia, Vancouver, 2012.
- 739.** M. R.Talaghat, Experimental investigation of double gas hydrate formation in the presence of modified starch as a kinetic inhibitor in a flow mini-loop apparatus *Canad. J. Chem.Eng.* 90 (2012) 429. ISSN: 0008-4034
- 740.** Duchateau, C., Pou, T.-E., Hidalgo, M., Glénat, P., Dicharry, C., Interfacial measurements for laboratory evaluation of kinetic hydrate inhibitors, *Chem.Eng.Sci.* 71 (2012) 220. ISSN: 0009-2509
- 741.** N.Gherras, Ph.D.Thesis, Ecole National Supérieur des Mines, St.-Etienne, 2012.

- 742.** Zhang, J., Di Lorenzo, M., Pan, Z., "Effect of surface energy on carbon dioxide hydrate formation", *J. Phys. Chem. B* 116 (2012) 7296. ISSN: 1520-6106
- 743.** Smith, J.D., Meuler, A.J., Bralower, H.L., Venkatesan, R., Subramanian, S., Cohen, R.E., McKinley, G.H., Varanasi, K.K. "Hydrate-phobic surfaces: Fundamental studies in clathrate hydrate adhesion reduction", *Phys.Chem.Chem.Phys.* 14 (2012) 6013. ISSN: 1463-9076
- 744.** J.-W. Jung, J. C. Santamarina, "Hydrate formation and growth in pores", *J. Cryst. Growth* 345(2012) 61. ISSN: 0022-0248
- 745.** S. Liu, "Double mechanism of CH₄-CO₂ replacement in hydrate: Vacancy assistance and competition", *Chem.Bull. (Huaxue Tongbao)* 75(2012)126. ISSN:
- 746.** A. Rahman, J.Podder, "Effect of EDTA on the growth kinetics, structural, optical and mechanical properties of ADP crystal", *Ind. J. Phys.* 86 (2012) 15. ISSN: 0252-9262
- 747.** C. L. Wang et al., "Research Progress on the Driving Force of Gas Hydrate Formation", *Adv. Mater. Res.* 616-618 (2012) 902. ISSN: 1022-6680

D. Kashchiev, A. Firoozabadi, "Induction time in crystallization of gas hydrates", *J. Cryst. Growth* 250 (2003) 499 ISSN: 0022-0248

- 748.** Li, X.-S., Xu, C.-G., Chen, Z.-Y., Cai, J., Synergic effect of cyclopentane and tetra-n-butyl ammonium bromide on hydrate-based carbon dioxide separation from fuel gas mixture by measurements of gas uptake and X-ray diffraction patterns *Intern. J. Hydrot. Energy* 37 (2012) 720. ISSN: 0360-3199
- 749.** M. Atilhan et al., in: "Advances in Natural Gas Technology", Ed. H.A.Al-Megren, InTech, Rijeka, 2012, p. 193. ISBN 978-953-51-0507-7
- 750.** N.Gherras, Ph.D.Thesis, Ecole National Superieur des Mines, St.-Etienne, 2012.
- 751.** Zhang, J., Di Lorenzo, M., Pan, Z. "Effect of surface energy on carbon dioxide hydrate formation", *J.Phys.Chem. B* 116(2012)7296. ISSN:1520-6106
- 752.** He, X.-K., Kim, R., Shin, D., Kim, W.-S. "Acoustic effect on induction of cerium carbonate in reaction crystallization", *J. Chem. Eng. Jap.* 45 (2012) 272. ISSN:0021-9592
- 753.** Li, X.-S., Zhan, H., Xu, C.-G., Zeng, Z.-Y., Lv, Q.-N., Yan, K.-F. "Effects of tetrabutyl-(ammonium/phosphonium) salts on clathrate hydrate capture of

CO₂ from simulated flue gas”, Energy Fuels 26 (2012) 2518. ISSN: 0887-0624

754. Hong, S.Y., Lim, J.I., Kim, J.H., Lee, J.D. “Kinetic studies on methane hydrate formation in the presence of kinetic inhibitor via in-situ Raman spectroscopy”, Energy Fuels 26(2012)7045. ISSN: 0887-0624
755. Saw, V. K., Ahmad, I., Mandal, A., Udayabhanu, G., Laik, S., “Methane hydrate formation and dissociation in synthetic seawater”, J. Natur. Gas Chem. 21 (2012) 625. ISSN: 1003-9953

D. Kashchiev, "Thermodynamically consistent description of the work to form a nucleus of any size", J. Chem. Phys. 118 (2003) 1837 ISSN: 0021-9606

756. A. C. Burley, Ph.D.Thesis, The Ohio State University, Columbus (OH), 2012.
757. Manka, A.A., Wedekind, J., Ghosh, D., Höhler, K., Wölk, J., Strey, R., “Nucleation of ethanol, propanol, butanol, and pentanol: A systematic experimental study along the homologous series”, J. Chem. Phys. 137 (2012) 054316. ISSN: 0021-9606
758. Guo, Z., Burley, A.C., Koelling, K.W., Kusaka, I., Lee, L.J., Tomasko, D.L., “CO₂ bubble nucleation in polystyrene: Experimental and modeling studies”, J. Appl. Polymer Sci. 125 (2012) 2170. ISSN: 0021-8995

D.Kashchiev, "Determining the curvature dependence of surface tension", J. Chem. Phys. 118 (2003) 9081 ISSN: 0021-9606

759. Hilz, E., Leermakers, F. A. M., Vermeer, A.W.P., A self-consistent field study of a hydrocarbon droplet at the air-water interface, Phys. Chem. Chem. Phys. 14 (2012) 4917. ISSN:1463-9076

J.H. ter Horst, D.Kashchiev, "Determination of the nucleus size from the growth probability of clusters", J.Chem.Phys. 119(2003)2241 ISSN 0021-9606

760. J. Hickey, M. Sc.Thesis, University of Ottawa, Ottawa, 2012.
761. P. Yi, G. C. Rutledge, “Molecular origins of homogeneous crystal nucleation”, Annu. Rev. Chem. Biomol. Eng. 3 (2012) 157. ISSN (Print) 1947-5438
762. D. Suh, K. Yasuoka, “Nanoparticle Growth Analysis by Molecular Dynamics: Cubic Seed”, J. Phys. Chem. B 116(2012)14637. ISSN: 1520-6106

D. Kashchiev, G. M. van Rosmalen, "Review: nucleation in solutions revisited", Cryst. Res. Technol. 38 (2003) 555 Online ISSN: 1521-4079

- 763.** Wang, Y.-W., Kim, Y.-Y., Christenson, H.K., Meldrum, F.C., A new precipitation pathway for calcium sulfate dihydrate (gypsum) via amorphous and hemihydrate intermediates, *Chem.Commun.* 48 (2012) 504. ISSN: 1359-7345
- 764.** Pevtsov, A. B., Medvedev, A. V., Kurdyukov, D. A., Il'inskaya, N. D., Golubev, V. G., Karpov, V. G., Evidence of field-induced nucleation switching in opal: VO₂ composites and VO₂ films, *Phys. Rev. B* 85 (2012) 024110. ISSN:1098-0121
- 765.** Kadam, S. S., Kulkarni, S. A., Coloma Ribera, R., Stankiewicz, A. I., ter Horst, J.H., Kramer, H.J.M., A new view on the metastable zone width during cooling crystallization, *Chem.Eng.Sci.* 72 (2012) 10. ISSN: 0009-2509
- 766.** A.Mattei, T.Li, Polymorph formation and nucleation mechanism of tolfenamic acid in solution: An investigation of pre-nucleation solute association, *Pharmaceut.Res.* 29 (2012) 460. ISSN: 0724-8741
- 767.** P.Antiniammal, D.Arivuoli, A thermo dynamical model for the shape and size effect on melting of boron carbide nanoparticles, *J.Nanosci.Nanotechnol.* 12 (2012) 993. ISSN:1533-4880
- 768.** Yashina, A., Meldrum, F., DeMello, A., Calcium carbonate polymorph control using droplet-based microfluidics, *Biomicrofluidics* 6 (2012) 022001. ISSN: 1932-1058
- 769.** D. J. McClements, Crystals and crystallization in oil-in-water emulsions: Implications for emulsion-based delivery systems *Adv. Coll.Interf. Sci.* 174 (2012) 1. ISSN: 0001-8686
- 770.** P. Antoniammal, D.Arivuoli, "Size and Shape Dependence on Melting Temperature of Gallium Nitride Nanoparticles", *J.Nanomaterials* 2012(2012)415797. ISSN: 1687-4110
- 771.** H.A. van Boxtel, US Patent Application, Publ. No.: US 2012/0141788 A1
- 772.** Wang, G., Zeng, D., Liu, Z., Nucleation barrier height in undercooled metallic melts, *Acta Metall. Sin. (Engl.Lett.)* 25 (2012) 256. ISSN: 1006-7191
- 773.** S.Palchoudhury, Ph.D.Thesis, The University of Alabama, Tuscaloosa (AL), 2012.
- 774.** N.Radacsi, Ph.D.Thesis, Delft University of Technology, Delft, 2012.

- 775.** Levdanskii, V., Smolik, J., Zdimal, V., Size effects during phase transformations in nanoobjects , J.Eng.Phys.Thermophys. 85(2012)1092. ISSN:1062-0125
- 776.** M.Nardone, V.G.Karpov, “A phenomenological theory of nonphotochemical laser induced nucleation”, Phys.Chem.Chem.Phys. 14(2012)13601. ISSN:463-9076
- 777.** Prisciandaro, M., Olivieri, E., Lancia, A., Musmarra, D., “PBTC as an antiscalant for gypsum precipitation: Interfacial tension and activation energy estimation”, Industr.Eng.Chem.Res. 51(2012)12844. ISSN:0888-5885
- 778.** M.R.Ward, A.J.Alexander, “Nonphotochemical laser-induced nucleation of potassium halides: Effects of wavelength and temperature”, Cryst.Growth Des. 12(2012)4554. ISSN:1528-7483
- 779.** Latteyer, F., Savu, S., Peisert, H., Chassó, T. “Self-assembly and structure formation in liquid crystalline phthalocyanine thin films studied by Raman spectroscopy and AFM”, J.Raman Spectrosc. 43(2012)1227. ISSN:0377-0486
- 780.** Lu, J., Li, Y.-P., Wang, J., Ren, G.-B., Rohani, S., Ching, C.-B. “Crystallization of an active pharmaceutical ingredient that oils out”, Separ. Purif. Technol. 96 (2012) 1. ISSN: 1383-5866
- 781.** Anby, M.U., Williams, H.D., McIntosh, M., Benameur, H., Edwards, G. A., Pouton, C.W., Porter, C. J. H. “Lipid digestion as a trigger for supersaturation: Evaluation of the impact of supersaturation stabilization on the in vitro and in vivo performance of self-emulsifying drug delivery systems”, Molec. Pharmaceutics 9 (2012) 2063. ISSN: 1543-8384
- 782.** Sánchez-Puig, N., Sauter, C., Lorber, B., Giegé, R., Moreno, A. “Predicting protein crystallizability and nucleation”, Prot. Pept. Lett. 19 (2012) 725. ISSN: 0929-8665
- 783.** L.Wantha, A.E.Flood, “Nucleation Kinetics of the γ -Polymorph of DL-Methionine”, Chem.Eng.Technol. 35 (2012) 1024. ISSN: 0930-7516
- 784.** Lu, J., Li, Y.-P., Wang, J., Li, Z., Rohani, S., Ching, C.-B., “Study on the oiling-out and crystallization for the purification of idebenone”, Org.Proc.Res.Develop. 16 (2012) 442. ISSN:1083-6160
- 785.** P.Antoniomal, D.Arivuoli, “A thermo dynamical model for the shape and size effect on melting of boron carbide nanoparticles”, J.Nanosci.Nanotechnol. 12 (2012) 993. ISSN: 1533-4880

- 786.** M. Ildefonso, "Développement d'un outil microfluidique polyvalent pour l'étude de la cristallisation: application à la nucléation de principes actifs pharmaceutiques", Ph.D.Thesis, Universite Aix-Marseille, Marseille, 2012.
- 787.** R. Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.
- 788.** Stillhart, C., Cavegn, M., Kuentz, M. "Study of drug supersaturation for rational early formulation screening of surfactant/co-solvent drug delivery systems", J.Pharm.Pharmacol. 65 (2012) 181. ISSN: 0022-3573

D. Kashchiev, A. Firrozabadi, "Analytical solutions for 1D countercurrent imbibition in water-wet media", SPE J. 8 (2003) 401 ISSN: 1086-055X

- 789.** M. Naseri et al., in: "Advances in Safety, Reliability and Risk Management: Esrel 2011", Eds. G. Berenguer, G. Soares, Taylor-Francis, London, 2012, p. 301.
- 790.** Naseri, M., Sinayuc, C., Numerical modeling of counter-current spontaneous imbibition during underbalanced drilling in: North Africa Technical Conference and Exhibition, 20-22 February 2012, Cairo, Egypt, SPE, 2012, vol.2, p.1303.
- 791.** Arabjamaloei, R., Nabaei, M., The effect of dead end on imbibition face condition during counter-current spontaneous imbibition, Energy Sources A 34(2012)559. ISSN: 1556-7036
- 792.** Saboorian-Jooybari, H., Ashoori, S., Mowazi, G., Development of an Analytical Time-Dependent Matrix/Fracture Shape Factor for Countercurrent Imbibition in Simulation of Fractured Reservoirs, Transp.Porous Media 92(2012)687. ISSN: 0169-3913
- 793.** E.M.Lobanov, On the time dependence of countercurrent capillary imbibition, J.Eng.Phys.Thermodyn. 85(2012)398. ISSN:1062-0125
- 794.** El-Amin, M. F., Salama, A., Sun, Effects of gravity and inlet location on a two-phase countercurrent imbibition in porous media, S. Intern.J. Chem.Eng. (2012) 210128. ISSN: 1687-806X
- 795.** F. Qanbari, C.R.Clarkson, in: "SPE Canadian Unconventional Resources Conference", SPE, Calgary, 2012, paper 162741-MS, DOI: 10.2118/162741-MS.
- 796.** K. S. Schmid, S. Geiger, "Universal scaling of spontaneous imbibition for water-wet systems", Water Resourc.Res. 48 (2012) W03507. Online ISSN: 1944-7973

D. Kashchiev, "Multicomponent nucleation: thermodynamically consistent description of the nucleation work", J. Chem. Phys. 120 (2004) 3749 ISSN: 0021-9606

- 797.** B.Carreon-Calderon, Theoretical study of vapor-liquid homogeneous nucleation using stability analysis of a macroscopic phase, J.Chem.Phys. ISSN: 0021-9606

C.Stubenrauch, D.Kashchiev, R.Strey, "Phase diagrams of nonionic foam films: construction by means of disjoining pressure versus thickness curves", J.Coll.Interf.Sci. 280(2004)244 ISSN: 0021-9797

- 798.** Ohtomi, E., Ikeda, N., Tokiwa, Y., Watanabe, I., Tanida, H., Takiue, T., Aratono, M., Matsubara, H. "Thin-Thick transition of foam film driven by phase transition of surfactantalkane mixed adsorbed film", Chem.Lett. 41 (2012) 1300. ISSN: 0366-7022

D. Kashchiev, P.G.Vekilov, A. B. Kolomeisky, "Kinetics of two-step nucleation of crystals", J. Chem. Phys. 122(2005)244706 ISSN 0021-9606

- 799.** M.Iwamatsu, A note on the nucleation with multiple steps: Parallel and series nucleation , J.Chem.Phys. 136 (2012) 044701. ISSN: 0021-9606

- 800.** Nordström, F.L., Svärd, M., Malmberg, B., Rasmuson, Å.C. "Influence of solution thermal and structural history on the nucleation of m-hydroxybenzoic acid polymorphs", Cryst.Growth Des. 12 (2012) 4340. ISSN: 1528-7483

- 801.** M. Iwamatsu, "Steady-state nucleation rate and flux of composite nucleus at saddle point", J.Chem.Phys. 136 (2012) 204702. ISSN: 0021-9606

- 802.** Y. Y.Diao, X.Y.Liu, "Controlled colloidal assembly: Experimental modeling of general crystallization and biomimicking of structural color", Adv.Func.Materials 22 (2012) 1354. ISSN: 1616-301X

- 803.** M. Iwamatsu, "Nucleation pathway of core-shell composite nucleus in size and composition space and in component space", Phys.Rev. E 86 (2012) 041604. ISSN: 1539-3755

- 804.** M. Ildefonso, "Développement d'un outil microfluidique polyvalent pour l'étude de la cristallisation: application à la nucléation de principes actifs pharmaceutiques", Ph.D.Thesis, Universite Aix-Marseille, Marseille, 2012.

- 805.** X.Y.Liu, Y.Y.Diao, "Modeling of Biominerization and Structural Color Biomimetics by Controlled Colloidal Assembly", in: "Bioinspiration: From Nano to Macro Scales", Ed. X. Y. Liu, Springer, New York, 2012, p.221. ISBN-10: 1461453038

J. H. ter Horst, D. Kashchiev, "Determining the nucleation rate from the dimer growth probability" J.Chem.Phys. 123 (2005) 114507 ISSN: 0021-9606

- 806.** R.Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

D. Kashchiev, "Dependence of the growth rate of nanowires on the nanowire diameter", Cryst. Growth Design 6 (2006) 1154, ISSN: 1528-7483

- 807.** Shih, P.-H., Hung, H.-J., Ma, Y.-R., Wu, S.-Y., Tuning the dimensionality of ZnO nanowires through thermal treatment: An investigation of growth mechanism, Nanoscale Res.Lett. 7 (2012) 354. ISSN:1931-7573
- 808.** Tucker, R.T., Beaudry, A.L., Laforge, J.M., Taschuk, M.T., Brett, M.J., A little ribbing: Flux starvation engineering for rippled indium tin oxide nanotree branches, Appl.Phys.Lett. 101(2012)193101. ISSN: 0003-6951
- 809.** Harmand, J.-C., Glas, F., Patriarche, G., Jabeen, F., Ramdani, M.R. "Kinetics and statistics of vapor-liquid-solid growth of III-V nanowires", Mater.Res.Soc.Symp.Proc. 1408 (2012) 81. ISSN: 0272-9172
- 810.** Plissard, S.R., Slapak, D.R., Verheijen, M.A., Hocevar, M., Immink, G.W.G., Van Weperen, I., Nadj-Perge, S., Bakkers, E.P.A.M. "From InSb nanowires to nanocubes: Looking for the sweet spot", Nano Lett. 12(2012)1794. ISSN: 1530-6984
- 811.** Lv, X.-L., Zhang, X., Yan, X., Liu, X.-L., Cui, J.-G., Li, J.-S., Huang, Y.-Q., Ren, X.-M."Growth of Self-Catalyzed InP Nanowires by Metalorganic Chemical Vapour Deposition", Chin. Phys. Lett. 29 (2012) 126102. ISSN: 0256-307X

D. Kashchiev, "Forms and applications of the nucleation theorem" J. Chem. Phys. 125 (2006) 014502 ISSN: 0021-9606

- 812.** R.Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

D. Kashchiev, "Analysis of experimental data for the nucleation rate of water droplets", J.Chem.Phys. 125 (2006) 044505 ISSN: 0021-9606

- 813.** Tammaro, M., Di Natale, F., Salluzzo, A., Lancia, A. Heterogeneous condensation of submicron particles in a growth tube Chem.Eng.Sci. 74 (2012) 124. ISSN: 0009-2509

D. Kashchiev, "Interrelation between cluster formation time, cluster growth probability and nucleation rate", J.Chem.Phys. 127 (2007) 064505 ISSN: 0021-9606

814. P. Yi, G. C. Rutledge, "Molecular origins of homogeneous crystal nucleation", *Annu.Rev.Chem.Biomol.Eng.* 3 (2012) 157. ISSN: 1947-5438

815. R. Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

K. Iland, J. Wölk, R. Strey, D. Kashchiev, "Argon nucleation in a cryogenic nucleation pulse chamber", J. Chem. Phys. 127 (2007) 154506 ISSN: 0021-9606

816. A.S.Bhabhe, Ph.D.Thesis, The Ohio State University, Columbus (Ohio), 2012.

817. Zhang, R., Khalizov, A., Wang, L., Hu, M., Xu, W. "Nucleation and growth of nanoparticles in the atmosphere", *Chem.Rev.* 112 (2012) 1957. ISSN: 0009-2665

818. Loeffler, T.D., Henderson, D.E., Chen, B., "Vapor-liquid nucleation in two dimensions: On the intriguing sign switch of the errors of the classical nucleation theory", *J.Chem.Phys.* 137 (2012) 194304. ISSN: 0021-9606

819. D.Suh, K.Yasuoka, "Nanoparticle Growth Analysis by Molecular Dynamics: Cubic Seed", *J.Phys.Chem. B* 116(2012)14637. ISSN (printed): 1089-5647

J. H. ter Horst, D.Kashchiev, "Rate of two-dimensional nucleation: verifying classical and atomistic theories by Monte Carlo simulation", J.Phys.Chem. B 112(2008)8614 ISSN (printed): 1089-5647

820. R.Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

D.Kashchiev, "Toward a better description of the nucleation rate of crystals and crystalline monolayers", J. Chem. Phys. 129 (2008) 164701 ISSN: 0021-9606

821. N. Eidelson, B. Peters, Transition path sampling for discrete master equations with absorbing states, *J. Chem.Phys.* 137 (2012) 094106, ISSN: 0021-9606

822. R.Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

D. Kashchiev, A. Borissova, R. B. Hammond, K. J. Roberts, "Effect of cooling rate on the critical undercooling for crystallization", J.Cryst.Growth 312 (2010) 698-704, ISSN: 0022-0248

823. D. J. McClements, Crystals and crystallization in oil-in-water emulsions: Implications for emulsion-based delivery systems, *Adv. Coll. Interf. Sci.* 174 (2012) 1. ISSN: 0001-8686

- 824.** Nam, J., Vanderlick, T. K., Beales, P. A. "Formation and dissolution of phospholipid domains with varying textures in hybrid lipo-polymersomes", Soft Matter 8 (2012) 7982. ISSN: 1744-683X
- 825.** Zhang, X., Qian, G., Zhou, X. "Effects of different organic acids on solubility and metastable zone width of zinc lactate", J.Chem.Eng.Data 57 (2012) 2963. ISSN: 0021-9568
- 826.** Zhang, X.-Y., Wang, X., Hao, L., Yang, X., Dang, L., Wei, H. "Solubility and metastable zone width of DL-tartaric acid in aqueous solution", Cryst.Res.Technol. 47 (2012) 1153. ISSN: 0232-1300

D. Kashchiev, A. Borissova, R. B. Hammond, K. J. Roberts, "Dependence of the critical undercooling for crystallization on the cooling rate", J. Phys. Chem. B 114 (2010) 5441 ISSN (printed): 1089-5647

- 827.** Nam, J., Vanderlick, T.K., Beales, P.A. , "Formation and dissolution of phospholipid domains with varying textures in hybrid lipo-polymersomes", Soft Matter 8(2012)7982. ISSN:1744-683X
- 828.** Luo, S., Zhu, M., Louhenkilpi, S. "Numerical simulation of solidification structure of high carbon steel in continuous casting using cellular automaton method", ISIJ International 52(2012)823. ISSN:0915-1559

S. Auer, D. Kashchiev, "Phase Diagram of α -Helical and β -Sheet Forming Peptides", Phys. Rev. Lett. 104 (2010) 168105, ISSN: 0031-9007

- 829.** Morriss-Andrews, A., Shea, J.-E., Kinetic pathways to peptide aggregation on surfaces: The effects of -sheet propensity and surface attraction, J. Chem. Phys. 136 (2012) 065103. ISSN: 0021-9606
- 830.** M. Enciso, A. Rey, Simple model for the simulation of peptide folding and aggregation with different sequences, J. Chem. Phys. 136 (2012) 215103. ISSN: 0021-9606
- 831.** Lu, Y., Wei, G., Derreumaux, P., Structural, thermodynamical, and dynamical properties of oligomers formed by the amyloid NNQQ peptide: Insights from coarse-grained simulations ,J.Chem.Phys. 137(2012)025101. ISSN:0021-9606
- 832.** M.E.Carrasco, Ph.D.Thesis, Universidad Complutense de Madrid, Madrid, 2012.
- 833.** Cheon, M., Chang, I., Hall, C.K., "Influence of temperature on formation of perfect tau fragment fibrils using PRIME20/DMD simulations", Protein Sci. 21(2012)1514. ISSN: 0961-8368

- 834. S. P. Carmichael, M. S. Shell, "A new multiscale algorithm and its application to coarse-grained peptide models for self-assembly", J.Phys.Chem. B 116 (2012) 8383. ISSN: 1520-6106
- 835. Banavar, J. R., Hoang, T.X., Seno, F., Trovato, A., Maritan, A., "Protein Sequence and Structure: Is One More Fundamental than the Other?", J.Stat.Phys. 148 (2012) 636. ISSN: 0022-4715
- 836. R. Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

D. Kashchiev, S. Auer, "Nucleation of Amyloid Fibrils", J. Chem. Phys. 132 (2010) 215101, ISSN: 0021-9606

- 837. Steckmann, T., Awan, Z., Gerstman, B.S., Chapagain, P.P., Kinetics of peptide secondary structure conversion during amyloid B-protein fibrillogenesis, J. Theor. Biol. 301 (2012) 95. ISSN: 0022-5193
- 838. M.Enciso, A.Rey, Simple model for the simulation of peptide folding and aggregation with different sequencesJ.Chem.Phys. 136(2012)215103. ISSN 0021-9606
- 839. Crespo, R., Rocha, F.A., Damas, A.M., Martins, P.M., A generic crystallization-like model that describes the kinetics of amyloid fibril formation,J.Biol.Chem. 287 (2012) 30585. ISSN: 0021-9258
- 840. Invernizzi, G., Papaleo, E., Sabate, R., Ventura, S., "Protein aggregation: Mechanisms and functional consequences", Intern.J.Biochem.Cell Biol. 44 (2012) 1541. ISSN: 1357-2725
- 841. B. Ma, R. Nussinov, "Selective molecular recognition in amyloid growth and transmission and cross-species barriers", J.Mol.Biol. 421 (2012) 172. ISSN: 0022-2836
- 842. R.Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

S. Auer, D. Kashchiev, "Insight into the correlation between lag time and aggregation rate in the kinetics of protein aggregation", Proteins 78 (2010) 2412 ISSN: 0887-3585

- 843. Crespo, R., Rocha, F.A., Damas, A.M., Martins, P.M., A generic crystallization-like model that describes the kinetics of amyloid fibril formation J. Biol. Chem. 287 (2012) 30585. ISSN: 0021-9258
- 844. Liu, G., Gaines, J.C., Robbins, K.J., Lazo, N.D. "Kinetic profile of amyloid formation in the presence of an aromatic inhibitor by nuclear magnetic resonance", ACS Medicin.Chem. Lett. 3 (2012) 856. ISSN: 1948-5875

845. J. M. Celedon, K. Cline, "Stoichiometry for binding and transport by the twin Arginine translocation system", *J. Cell Biol.* 197 (2012) 523. ISSN: 0021-9525

846. R. Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

R. Cabriolu, D. Kashchiev, S. Auer, "Atomistic Theory of Amyloid Fibril Nucleation", J.Chem.Phys. 133 (2010) 225101, ISSN: 0021-9606

847. C. F. Lee, Length distribution of stiff, self-assembled polymers at thermal equilibrium, *J. Phys .Cond. Matt.* 24 (2012) 415101. ISSN: 0953-8984

848. Y. Yoshimura, Y., Lin, Y., Yagi, H., Lee, Y.-H., Kitayama, H., Sakurai, K., So, M., "Distinguishing crystal-like amyloid fibrils and glass-like amorphous aggregates from their kinetics of formation", *PNAS* 109 (2012) 14446. ISSN: 0027-8424

D. Kashchiev, "Note: On the Critical Supersaturation for Nucleation", J. Chem. Phys. 134 (2011) 196102 ISSN: 0021-9606

849. N. Kubota, Effect of sample volume on metastable zone width and induction time *J. Cryst. Growth* 345 (2012) 27, ISSN: 0022-0248

850. Kožíšek, Z., Hikosaka, M., Okada, K., Demo, P. "Nucleation on active centers in confined volumes", *J. Chem. Phys.* 136 (2012) 164506. ISSN: 0021-9606

R. Cabriolu, D. Kashchiev, S. Auer, "Size Distribution of Amyloid Fibrils", Biophys. J. 101 (2011) 2232 ISSN (printed): 0006-3495. ISSN (electronic): 1542-0086.

851. Yusko, E.C., Prangkio, P., Sept, D., Rollings, R.C., Li, J., Mayer, M., "Single-particle characterization of A β oligomers in solution", *ACS Nano* 6 (2012) 5909. ISSN: 1936-0851

S. Auer, P. Ricchiuto, D. Kashchiev, "Two-step Nucleation of Amyloid Fibrils: Omnipresent or Not?", J.Mol.Biol. 422 (2012) 723

852. R.Cabriolu, "Modelling the kinetics of amyloid fibril nucleation", Ph.D.Thesis, University of Leeds, Leeds, 2012.

D. Kashchiev, "Nucleation: Basic Theory with Applications", Butterworth-Heinemann, Oxford, 2000; 544 pages; ISBN: 978-0-7506-4682-6

853. N. M. Kortsenshteyn, A. K. Yastrebov, Interphase heat transfer during bulk condensation in the flow of vapor-gas mixture, *Int. J. Heat Mass Transfer* 55 (2012) 1133. ISSN: 0017-9310

- 854.** D'orsogna, M.R., Lakatos, G., Chou, T.., Stochastic self-assembly of incommensurate clusters , J. Chem. Phys. 136 (2012) 084110. ISSN:0021-9606
- 855.** Kadam, S. S., Kulkarni, S. A., Coloma Ribera, R., Stankiewicz, A. I., ter Horst, J. H., Kramer, H. J. M.., A new view on the metastable zone width during cooling crystallization, Chem.Eng.Sci. 72 (2012) 10. ISSN: 0009-2509
- 856.** Kortsenshteyn, N.M., Samuilov, E.V., Yastrebov, A.K., Heat exchange between phases and kinetics of condensation relaxation for different regimes of droplet growth, Colloid J. 74 (2012) 57. ISSN: 1061-933X
- 857.** E.Gagniere et al., in: "Pharmaceutical Salts and Cocrystals", Eds. J.Wouters, L.Quere, RSC, Cambridge, 2012, p.188. ISBN: 978-1-84973-158-4
- 858.** Candoni, N., Hammadi, Z., Grossier, R., Ildefonso, M., Revalor, E., Ferté, N., Okutsu, T., Veesler, S., Nanotechnologies dedicated to nucleation control ,intern.J.Nanotechnol. 9 (2012) 439. ISSN: 1475-7435
- 859.** Tröster, A., Oettel, M., Block, B., Virnau, P., Binder, K., Numerical approaches to determine the interface tension of curved interfaces from free energy calculations ,Chem.Phys. 136 (2012) 064709. ISSN: 0021-9606
- 860.** Winkler, P.M., Vrtala, A., Steiner, G., Wimmer, D., Vehkamki, H., Lehtinen, K.E.J., Reischl, G.PWagner, P.E, Quantitative characterization of critical nanoclusters nucleated on large single molecules , Phys.Rev.Lett. 108(2012)085701. ISSN:0031-9007
- 861.** S. J. Khan, Ph.D.Thesis, Kansas State University, Manhattan, Kansas, 2012.
- 862.** Vehkämäki, H., McGrath, M.J., Kurtán, T., Julin, J., Lehtinen, K.E.J., Kulmala, M., Rethinking the application of the first nucleation theorem to particle formation, J. Chem. Phys. 136 (2012) 094107. ISSN: 0021-9606
- 863.** M.A.Lovette, F.M.Doherty, Predictive modeling of supersaturation-dependent crystal shapes , Cryst.Growth Des. 12 (2012) 656. ISSN: 1528-7483
- 864.** Velichko, Y.S., Mantei, J.R., Bitton, R., Carvajal, D., Shull, K.R., Stupp, S.I., Electric field controlled self-assembly of hierarchically ordered membranes Adv.Funct.Mater. 22(2012)369. ISSN:1616-301X
- 865.** J. F. Lutsko, A dynamical theory of nucleation for colloids and macromolecules. J.Chem.Phys. 136 (2012) 034509. ISSN: 0021-9606

- 866.** Dursch, T. J., Ciontea, M. A., Radke, C. J., Weber, A.Z., Isothermal ice crystallization kinetics in the gas-diffusion layer of a proton-exchange-membrane fuel cell ,*Langmuir* 28 (2012) 1222. ISSN: 0743-7463
- 867.** R. W. Breault, An analysis of clustering flows in a CFB riser ,*Powder Technol.* 220 (2012) 79. ISSN: 0032-5910
- 868.** Miljkovic, N., Enright, R., Wang, E.N., Effect of droplet morphology on growth dynamics and heat transfer during condensation on superhydrophobic nanostructured surfaces, *ACS Nano* 6 (2012) 1776. ISSN: 1936-0851
- 869.** P. G. Vekilov, Phase diagrams and kinetics of phase transitions in protein solutions, *J.Phys. Cond. Matter* 24(2012)193101. ISSN:0953-8984
- 870.** Reinmüller, A., Oğuz, E.C., Messina, R., Löwen, H., Schöpe, H.J., Palberg, T., Colloidal crystallization in the quasi-two-dimensional induced by electrolyte gradients *J.Chem.Phys.* 136(2012)164505. ISSN:0021-9606
- 871.** A. Brener et al., in: “Recent Researches in Automatic Control and Electronics”, Eds. V.Niola et al., WSEAS Press, 2012, p.128. ISBN: 978-1-61804-004-6
- 872.** Prestipino, S., Laio, A., Tosatti, E., Systematic improvement of classical nucleation theory , *Phys.Rev.Lett.* 108(2012)225701. ISSN:0031-9007
- 873.** H.A. van Boxtel, US Patent Application, Publ. No.: US 2012/0141788 A1.
- 874.** Karpov, V.G., Nardone, M., Subashiev, A.V.., Plasmonic mediated nucleation of resonant nano-cavities, *Appl. Phys. Lett.* 101 (2012) 031911. ISSN: 0003-6951
- 875.** J.Schmidtbauer et al., *Appl.Phys.Lett.* 101 (2012) 043105.
- 876.** J.Hickey, M.Sc.Thesis, University of Ottawa, Ottawa, 2012.
- 877.** Y.Zhang, Ph.D.Thesis, Freie Universitat Berlin, Berlin, 2012.
- 878.** A.S.Bhabhe, Ph.D.Thesis, The Ohio State University, Columbus (Ohio), 2012.
- 879.** Murray, D., Koziniec, T., Lee, K., Dixon, M., Large, Ice nucleation by particles immersed in supercooled cloud droplets, *Chem.Soc.Rev.* 41 (2012) 6519. ISSN: 0306-0012
- 880.** N. Eidelson, B. Peters, Transition path sampling for discrete master equations with absorbing states, *J.Chem.Phys.* 137 (2012) 094106. ISSN:0021-9606
- 881.** N. Gherras, Ph.D.Thesis, Ecole National Supérieur des Mines, St.-Etienne, 2012.

- 882.** P. G. Vekilov, Crystal nucleation: Nucleus in a droplet, *Nature Materials* 11 (2012) 838. ISSN: 1476-1122
- 883.** N. Radacs, Ph.D.Thesis, Delft University of Technology, Delft, 2012.
- 884.** A. Winkler, Ph.D.Thesis, Johannes-Gittenberg-Universitat Mainz, Mainz, 2012.
- 885.** V.Basios, Complex matter and nonlinear kinetics: Crystal size distribution due to self-organization, *Int.J.Bifurc.Chaos* 22 (2012) 1250210. ISSN:0218-1274
- 886.** S. S. Joshi, in: “Modern Aspects of Bulk Crystal and Thin Film Preparation”, Ed. N. Kolesnikov, InTech, Rijeka, 2012, p.413. ISBN: 978-953-307-610-
- 887.** Crespo, R., Rocha, F. A., Damas, A. M., Martins, P. M., A generic crystallization-like model that describes the kinetics of amyloid fibril formation, *J.Biol.Chem.* 287 (2012) 30585. ISSN: 0021-9258
- 888.** Drelich, A., Grossiord, J.-L., Gomez, F., Clausse, D., Pezron, I. “Mixed O/W emulsions stabilized by solid particles: A model system for controlled mass transfer triggered by surfactant addition”, *J.Coll.Interf.Sci.* 386(2012)218. ISSN: 0021-9797
- 889.** V. Uzuniva et al., “Control of the nucleation of sickle cell hemoglobin polymers by free hematin”, *Faraday Discuss.* 159 (2012) 87. ISSN: 1364-5498
- 890.** V. I. Khvorostyanov, J.A.Curry, “Parameterization of homogeneous ice nucleation for cloud and climate models based on classical nucleation theory”, *Atmos.Chem.Phys.* 12 (2012) 9275. ISSN: 1680-7316
- 891.** J. F. Lutsko, “Nucleation of colloids and macromolecules in a finite volume”, *J.Chem.Phys.* 137 (2012) 154903. ISSN: 0021-9606
- 892.** V. G. Karpov, “Coupled electron-heat transport in nonuniform thin film semiconductor structures”, *Phys.Rev. B* 86 (2012) 165317. ISSN: 1098-0121 Print 292. R.Enright et al., “Condensation on superhydrophobic surfaces: The role of local energy barriers and structure length scale”, *Langmuir* 28(2012)14424. ISSN: 0743-7463
- 893.** Z. Q. Liu et al., “Formation and mechanical properties of Zr-based bulk metallic glass composites with high oxygen levels”, *Chin. Sci. Bull.* 57 (2012) 3931. ISSN: 1001-6538
- 894.** A.V.Mokshin, B.N.Galimzyanov, “Steady-state homogeneous nucleation and growth of water droplets: Extended numerical treatment”,*J.Phys.Chem. B* 116 (2012) 11959. ISSN:(printed): 1089-5647

- 895.** M. Qian, J.Ma, "The characteristics of heterogeneous nucleation on concave surfaces and implications for directed nucleation or surface activity by surface nanopatterning", *J.Cryst.Growth* 355(2012)73. ISSN: 0022-0248
- 896.** J. Hassan, "Pore size distribution calculation from ${}^1\text{H}$ NMR signal and N 2 adsorption-desorption techniques", *Physica B: Cond.Matter* 407(2012)3797. ISSN: 0921-4526
- 897.** K.Sangwal, "Progressive nucleation mechanism for the growth behavior of items and its application to cumulative papers and citations of individual authors", *Scientometrics* 92(2012)575. SSN: 0138-9130 (print version)ISSN: 1588-2861 (electronic version)
- 898.** Karpov, V. G., Nardone, M., Grigorchuk, N.I., "Nucleation of plasmonic resonance nanoparticles", *Phys.Rev. B* 86 (2012) 075463. ISSN: 1098-0121 Print
- 899.** K. Li et al., "Nucleation of kinetic ising model under oscillating field", *Chin.J.Chem.Phys.* 25 (2012) 419. ISSN: 1674-0068
- 900.** G.A.Stephenson et al., "Symmetry breaking: Polymorphic form selection by enantiomers of the melatonin agonist and its missing polymorph", *Cryst.Growth Des.* 12 (2012) 3964. ISSN (printed): 1528-7483.
- 901.** A.Troster, K.Binder, "Microcanonical determination of the interface tension of flat and curved interfaces from Monte Carlo simulations", *J.Phys.:Cond.Matter* 24(2012)284107. ISSN 0953-8984 (Print)
- 902.** Rapecki, T., Donten, M., Nowicka, A.M., Stojek, Z. "Influence of etching of polycrystalline Au-, Pt- and glassy carbon surfaces with OH radicals on electrodeposition of metals", *J.Electroanal.Chem.* 677-680 (2012) 83. ISSN: 0022-0728.
- 903.** Di Profio, G., Fontananova, E., Curcio, E., Drioli, E. "From tailored supports to controlled nucleation: Exploring material chemistry, surface nanostructure, and wetting regime effects in heterogeneous nucleation of organic molecules", *Cryst.Growth Des.* 12 (2012) 3749. ISSN (printed): 1528-7483.
- 904.** L. Dong et al., "An analysis of surface-microstructures effects on heterogeneous nucleation in pool boiling", *Intern.J.Heat Mass Transfer* 55 (2012) 4376. ISSN: 0017-9310
- 905.** L. Dong et al., "Availability analyses for heterogeneous nucleation under steady heating in pool boiling", *Intern.Comm.Heat Mass Transfer* 39 (2012) 776. ISSN: 0017-9310

- 906.** P. Yi, G. C. Rutledge, "Molecular origins of homogeneous crystal nucleation", *Annu.Rev.Chem.Biomol.Eng.* 3 (2012) 157. 1947-5438 (Print)
- 907.** Candoni, N., Grossier, R., Hammadi, Z., Morin, R., Veesler, S.., "Practical physics behind growing crystals of biological macromolecules", *Protein Peptide Lett.* 19 (2012) 714. ISSN: 0929-8665
- 908.** J. Zhang et al., "Effect of surface energy on carbon dioxide hydrate formation", *J. Phys. Chem. B* 116 (2012) 7296. ISSN 1520-6106 (print)
- 909.** T. E. Itina et al., "Nanoparticles and nanostructures formed by laser: What can we learn from the modeling?", *Proc.SPIE* 8414 (2012) 841403. ISSN 0277-786X (print)
- 910.** D.Barahona, "On the ice nucleation spectrum", *Atmos.Chem.Phys.* 12(2012)3733. ISSN: 1680-7316
- 911.** Z. Kozisek et al., "Nucleation on active centers in confined volumes", *J. Chem. Phys.* 136 (2012) 164506. ISSN: 0021-9606 (print)
- 912.** Kulkarni, A. A., Bhatia, S. H., Abhyankar, S. V., Kulkarni, M. D., Singh, R. R., "Isonicotinamide self-association: The link between solvent and polymorph nucleation", *Chem. Comm.* 48 (2012) 4983. ISSN: 1364-548X
- 913.** Katsumoto, Y., Tsuchiizu, A., Qiu, X., Winnik, F.M., "Dissecting the mechanism of the heat-induced phase separation and crystallization of poly(2-isopropyl-2-oxazoline) in water through vibrational spectroscopy and molecular orbital calculations", *Macromolecules* 45 (2012) 3531. ISSN: 0024-9297
- 914.** Deb Barma, J., Roy, J., Saha, S.C., Roy, B.S.., "Simulation of fluid-solid coexistence in finite volumes: A method to study the properties of wall-attached crystalline nuclei", *J.Chem.Phys.* 136 (2012) 134710. ISSN: 0021-9606 (print)
- 915.** J. F. Lutsko, "Nucleation of colloids and macromolecules: Does the nucleation pathway matter?", *J. Chem. Phys.* 136 (2012) 134502. ISSN: 0021-9606 (print)
- 916.** P. Wu et al., "Lattice mismatch induced nonlinear growth of graphene", *J. Am. Chem. Soc.* 134 (2012) 6045. ISSN 0002-7863 (print)
- 917.** S. J. Khan et al., "Computer simulations of nucleation of nanoparticle superclusters from solution", *Langmuir* 28 (2012) 5570. ISSN: 0743-7463
- 918.** J. Gao et al., "Solubility data of trisodium citrate hydrates in aqueous solution and crystal-solution interfacial energy of the pentahydrate", *Cryst. Res. Technol.* 47 (2012) 397. Online ISSN: 1521-4079.

- 919.** J. Sun et al., “Synthesis of struvite crystals by using bacteria *proteus mirabilis*”, *Synth.React.Inorg.Metal-Org.Nanomet.Chem.* 42 (2012) 445. ISSN0094-5714
- 920.** Kusumaatmaja, H., Lipowsky, R., Jin, C., Mutihac, R.-C., Riegler, H. “Nonisomorphic nucleation pathways arising from morphological transitions of liquid channels”, *Phys.Rev.Lett.* 108 (2012) 126102. ISSN: 1079-7114 (online) 0031-9007 (print).
- 921.** K. A. Riekki, “Reaction Kinetic Modelling of size selected growth of nanodots”, M.Sc.Thesis, Helsinki University, Helsinki, 2012.
- 922.** V. I. Levitas, “Sublimation, chemical decomposition, and melting inside an elastoplastic material: General continuum thermodynamic and kinetic theory”, *Intern.J.Plasticity* 34 (2012) 41. ISSN0749-6419
- 923.** D. E. Bugaris, H.-C. Zur Loyer, “Materials discovery by flux crystal growth: Quaternary and higher order oxides”, *Angew. Chem. Intern. Edition* 51 (2012) 3780. ISSN: 1433-7851 (print)
- 924.** Z. Said-Bacar, “Élaboration et caractérisations du silicium polycristallin par cristallisation en phase liquide du silicium amorphe”, Ph.D.Thesis, Iniversite Paris-Sud, Paris, 2012.
- 925.** A. V. Mokshin, B. N. Galimzyanov, “Growth Kinetics of the Homogeneously Nucleated Water Droplets: Simulation Results”, *J. Phys. Conf. Series* 394 (2012) 012023. ISSN: 1742-6596
- 926.** Y. I. Yanson, “How additives affect Cu electrodeposition : an electrochemical STM study”, Ph.D.Thesis, Leiden University, Leiden, 2012.
- 927.** T. Nemec et al., “Parametrization of the homogeneous ice nucleation rate for the numerical simulation of multiphase flow”, *Proc. Appl. Math. Mech.* 12 (2012) 533. ISSN: 1617-7061
- 928.** Binder, P., Borné, Y., Johnsdotter, S., Essén, B. “Beyond the Van Der Waals loop: What can be learned from simulating Lennard-Jones fluids inside the region of phase coexistence”, *Amer.J.Phys.* 80 (2012) 1099. ISSN: 0002-9505
- 929.** R. Cabriolu, “Modelling the kinetics of amyloid fibril nucleation”, Ph.D.Thesis, University of Leeds, Leeds, 2012.
- 930.** J. Geng et al., “Crystal formation and growth mechanism of inorganic nanomaterials in sonochemical syntheses”, *Science China Chem.* 55 (2012) 2292. ISSN: 1674-7291

- 931. E. Peretz et al., "Reasons for Self Ordering in Multilayer Quantum Dots Part II: Interaction energy", *Surface Sci.* 608 (2013) 14. ISSN: 0039-6028
- 932. M.Dawson et al., "Simplified mechanism for new particle formation from methanesulfonic acid, amines, and water via experiments and ab initio calculations", *Proc. Natl. Acad. Sci. USA* 109 (2012) 18719. ISSN: 0027-8424 (print)
- 933. S. A. Kukushkin, V.A.Osipov, "Theory of phase transformations in the mechanics of solids and its applications for description of fracture, formation of nanostructures and thin semiconductor films growth", *Key Eng.Materials* 528 (2013) 145. ISSN: 1013-9826
- 934. D. Suh, K.Yasuoka, "Nanoparticle Growth Analysis by Molecular Dynamics: Cubic Seed", *J.Phys.Chem. B* 116 (2012) 14637. ISSN (printed): 1089-5647

D. Kashchiev, "On the relation between nucleation work, nucleus size and nucleation rate", J.Chem.Phys. 76 (1982) 5098 ISSN: 0021-9606

- 935. C. N. Nanev, F. Hodzhaoglu, "Temperature control of protein crystal nucleation", *Cryst.Res.Technol.* 47 (2012) 1195. Online ISSN: 1521-4079

D. W. Oxtoby, D. Kashchiev, "A general relation between the nucleation work and the size of the nucleus in multicomponent nucleation", J. Chem. Phys. 100 (1994) 7665 ISSN: 0021-9606

- 936. C. N. Nanev, F. Hodzhaoglu, "Temperature control of protein crystal nucleation", *Cryst.Res.Technol.* 47 (2012) 1195. Online ISSN: 1521-4079

D. Kashchiev, "On the stability of membrane, foam and emulsion bilayers with respect to rupture by hole nucleation", Colloid Polym. Sci. 265 (1987) 436

- 937. G.A.Georgiev et al., "Foam film study of albumin inhibited lung surfactant preparations: effect of added hydrophilic polymers", *Soft Matter* 8 (2012) 12072. ISSN: 1744-683X

D. Kashchiev, "Nucleation: Basic Theory with Applications", Butterworth-Heinemann, Oxford, 2000; 544 pages; ISBN: 978-0-7506-4682-6

- 938. C. N. Nanev, F. Hodzhaoglu, "Temperature control of protein crystal nucleation", *Cryst. Res. Technol.* 47 (2012) 1195. Online ISSN: 1521-4079

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

- 939. Narottam P. Bansal, Aldo R. Boccaccini, Ceramics and Composites Processing Methods, Wiley, American Ceramic Society, 2012

Karamanov A., Gutzow I. Chomakov I.,“Synthesis of wall-covering Glass-Ceramics from waste raw Materials”, Glastech. Ber., Glass Sci. Tech., 67, [8], 1994, 227-231 ISSN: 0946-7475

940. Narottam P. Bansal,Aldo R. Boccaccini, Ceramics and Composites Processing Methods, Wiley, American Ceramic Society, 2012
941. Jiemsirilers,S.,Pattarachao, Bussaraporn, PROPERTIES OF GLASS-CERAMICS FROM HYDROMETALLURGICAL ZINC WASTE, in “Melt Chemistry, Relaxation, and Solidification Kinetics of Glasses, Eds. Hong Li,Chandra S. Ray,Denis M. Strachan,Richard Weber,Yuanzheng Yue, The American Ceramic Society, John Wiley & Sons, New York, 2012
942. Castells XE, Sistemas de tratamiento térmico. Procesos a alta temperatura: la tritificación y el plasma térmico: Tratamiento y valorización energética de residuos, Ediciones Díaz de Santos Amazon.com, 2012

Gutzow. I., Paskova R., Karamanov A., Schmelzer J.,“The Kinetics of Surface Induced Sinter-crystallization andthe Formation of Glass-Ceramic Materials”,Journ. Mater. Sci., 33 [21], 1998, 5265-5273 ISSN: 0022-2461

943. Prado M.O., Ferreira E.B. Zanotto E.D., Sintering Kinetics of Crystallizing Particles, A Review, in “Melt Chemistry, Relaxation, and Solidification Kinetics of Glasses, Eds. Hong Li,Chandra S. Ray,Denis M. Strachan,Richard Weber,Yuanzheng Yue, The American Ceramic Society, John Wiley & Sons, New York, 2012
944. Chang Jun Jeon, Gui Nam Sun, Jong Kyu Lee, Han Sae Ju, and Eung Soo Kim, Thermal Properties of 0.9CaMgSi₂O₆-0.1MgSiO₃ Glass-Ceramics, Journal of the Korean Ceramic Society, Vol. 49, No. 1, pp. 111~117, 2012.
945. Rodrigues de Melo Valéria Alves ; Lameiras Fernando Soares; Tolentino Evandro, Conversion of sandy tailing from banded iron formation exploitation into glass-ceramic materials Materials Research, Mat. Res. vol.15 no.1 São Carlos Jan./Feb. 2012

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

946. Chang Jun Jeon, Gui Nam Sun, Jong Kyu Lee, Han Sae Ju, Eung Soo Kim, Thermal Properties of 0.9CaMgSi₂O₆-0.1MgSiO₃ Glass-Ceramics, Journal of the Korean Ceramic Society, Vol. 49, No. 1, pp. 111~117, 2012, ISSN: 1229-7801

- 947.** Mei, L., Liu, G.-H., He, G., Wang, L.-L., Li, J.-T. Controlled amorphous crystallization: An easy way to make transparent nanoceramics, Optical Materials 34 (6) , pp. 981-985, 2012, ISSN:0925-3467
- 948.** Rodrigues de Melo Valeria Alves; Lameiras Fernando Soares; Tolentino Evandro, Conversion of Sandy Tailing from Banded Iron Formation Exploitation into Glass-ceramic Materials, MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS, 15, 1, Pages: 15-20, DOI: 10.1590/S1516-14392011005000098 Published: JAN-FEB 2012 , ISSN: 1516-143
- 949.** Reben, M., Wasylak, J., Kosmal, M., Glass-ceramics from kinescope glass cullet Ceramic Transactions 231 , pp. 151-159, 2012, ISSN: 1042-1122
- 950.** Wisniewski, W., Otto, K., Rüssel, C., Oriented nucleation of diopside crystals in glass, , Crystal Growth and Design 12 (10) , pp. 5035-5041, 2012, ISSN: 1528-7483
- 951.** Lin, K.-L., Chu, T.-C., Cheng, C.-J., Lee, C.-H., Chang, T.-C., Wang, K.-S., Recycling solar panel waste glass sintered as glass-ceramics, Environmental Progress and Sustainable Energy 31 (4) , pp. 612-618, 2012, ISSN: 1944-7442

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

- 952.** Lin, K.-L., Chu, T.-C., Cheng, C.-J., Lee, C.-H., Chang, T.-C., Wang, K.-S., Recycling solar panel waste glass sintered as glass-ceramics, Environmental Progress and Sustainable Energy 31 (4) , pp. 612-618, 2012, ISSN: 1944-7442

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

- 953.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN: 0022-3093
- 954.** Sandu, V., Nicolescu, M.S., Kuncser, V., Popa, S., Pasuk, I., Ghica, C., Sandu, E. Structure and magnetic properties of nanosized magnetite obtained by glass recrystallization Journal of Nanoscience and Nanotechnology 12 (6) , pp. 5043-5050,2012, ISSN:1533-4880

- 955.** Păcurariu, C. Lazău I., Non-isothermal crystallization kinetics of some glass-ceramics with pyroxene structure, Journal of Non-Crystalline Solids, Volume 358, Issue 23, 1 p 3332–3337, 2012 ISSN: 0022-3093

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

- 956.** Zhao, Y., Chen, D., Bi, Y., Long, M. , Preparation of low cost glass-ceramics from molten blast furnace slag, Ceramics International 38 (3) , pp. 2495-2500, 2012, ISSN: 0272-8842
- 957.** R MülleR, S Rein, VISCOUS-PHASE SILICATE PROCESSING, SchNarottam P. Bansal,Aldo R. Boccaccini, Ceramics and Composites Processing Methods, Wiley, American Ceramic Society, 2012
- 958.** Reben, M., Wasylak, J., Kosmal, M., Glass-ceramics from kinescope glass cullet , Ceramic Transactions 231 , pp. 151-159, 2012
- 959.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN: 0022-3093

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

- 960.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN: 0022-3093
- 961.** Păcurariu, C. Lazău I., Non-isothermal crystallization kinetics of some glass-ceramics with pyroxene structure, Journal of Non-Crystalline Solids, Volume 358, Issue 23, 1 p 3332–3337, 2012, ISSN: 0022-3093

Karamanov A., Pisciella P., Cantalini C. and Pelino M., "The Influence of the $\text{Fe}^{3+}/\text{Fe}^{2+}$ Ratio on the Crystallization of Iron-rich Glasses from Industrial Wastes",J. Am. Ceram. Society, 81 [12], 2000, 3153-3157, ISSN: 0002-7820

- 962.** Khater, G.A., Abdel-Motelib, A., El Manawi, A.W., Abu Safiah, M.O. Glass-ceramics materials from basaltic rocks and some industrial waste, Journal of Non-Crystalline Solids 358 (8) , pp. 1128-1134, 2012, ISSN: 0022-3093
- 963.** Jensen, M., Zhang, L., Yue, Y. Probing iron redox state in multicomponent glasses by XPS Chemical Geology 322-323 , pp. 145-150, 2012

- 964.** Pánuco-Valdés, O.I., López-Cuevas, J., Rodríguez-Galicia, J.L. Synthesis and characterization of glass and glass-ceramic materials of the system SiO₂-Fe₂O₃-BaO-Al₂O₃Materials Research Society Symposium Proceedings 1373, pp. 37-42,2012
- 965.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN:0022-3093
- 966.** Ballesteros S., Morphology and microstructure by SEM of eco glassceramics phases obtained from siderurgical slags, , Microscopy and Microanalysis / Volume 18 / Supplement S2 /, pp 1928-1929, Kambrige University Ptress. July 2012

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

- 967.** Borowski, G. , Suitability tests of fly ashes vitrification from sewage sludge incineration, Archives of Environmental Protection 38 (2) , pp. 81-87, 2012 ISSN: 0324-8461
- 968.** Peng, B., Peng, J., Chai, L., Yu, D. , Solidification of EAF stainless steel dust , TMS Annual Meeting , pp. 453-460, 2012
- 969.** Sobiecka, E., Izydorczyk, M., Maniukiewicz, W., Bielski, C., Influence of different chemical compounds addition into medical waste ash to reduce leaching of vitrificates, Fresenius Environmental Bulletin 21 (4) , pp. 814-818, 2012,ISSN: 1018-4619
- 970.** Tien-Chun Chu, Kuen-Sheng Wang, Kae-Long Lin, Chang-Ching Chien, Jung-Hsing Chen, Synthesis of waste-derived glass-ceramics from MSWI fly ash and EAF dust: Kinetics of nucleation and crystallization, Environmental Progress & Sustainable Energy, Edited By: Martin Abraham, Article first published online: 23 APR 2012, Online ISSN: 1944-745
- 971.** Sui, Y.-F., Sun, G.-D., Jin, F., Wang, C.-G., Guo, M., Zhang, M., Selective extraction of heavy metals Cr, Ni and Zn from stainless steel-making dust, Beijing Keji Daxue Xuebao/Journal of University of Science and Technology Beijing 34 (10) , pp. 1130-1137, 2012, ISSN: 1001-053X
- 972.** Karamanov A., Pelino M., "Crystallization Phenomena in Iron Rich Glasses", J. Non-Crystalline Solids, 281 [1-3], 2001, 139-151, ISSN: 0022-3093

- 973.** Khater, G.A., Abdel-Motelib, A., El Manawi, A.W., Abu Safiah, M.O. Glass-ceramics materials from basaltic rocks and some industrial waste, Journal of Non-Crystalline Solids 358 (8) , pp. 1128-1134, 2012, ISSN: 0022-3093
- 974.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN: 0022-3093
- 975.** Andrić, L., Aćimović-Pavlović, Z., Trumić, M., Prstić, A., Tanasković, Z. , Specific characteristics of coating glazes based on basalt , Materials and Design 39, pp. 9-13, 2012
- 976.** Zucchelli, A., Dignatichi, M., Montorsi, M., Carlotti, R., Siligardi, C. , Characterization of vitreous enamel-steel interface by using hot stage ESEM and nano-indentation techniques, Journal of the European Ceramic Society 32 (10) , pp. 2243-2251, 2012, ISSN: 0955-2219
- 977.** Sandu, V., Nicolescu, M.S., Kuncser, V., Popa, S., Pasuk, I., Ghica, C., Sandu, E., Structure and magnetic properties of nanosized magnetite obtained by glass recrystallization, Journal of Nanoscience and Nanotechnology 12 (6) , pp. 5043-5050, 2012
- 978.** Pánuco-Valdés, O.I., López-Cuevas, J., Rodríguez-Galicia, J.L., Synthesis and characterization of glass and glass-ceramic materials of the system SiO₂-Fe₂O₃-BaO-Al₂O₃, Materials Research Society Symposium Proceedings 1373 , pp. 37-42, 2012
- 979.** Abdel-Hameed, S.A.M., El Kady, A.M., Effect of different additions on the crystallization behavior and magnetic properties of magnetic glass-ceramic in the system Fe₂O₃-ZnO-CaO-SiO₂, Journal of Advanced Research 3 (2) , pp. 167-175, 2012
- 980.** Ercenk, E., Sen, U., Yilrnaz, S., The effect of SiC addition on the crystallization kinetics of atmospheric plasmasprayed basalt-based coatings, Ceramics International 38 (8) , pp. 6549-6556, 2012, ISSN: 0272-8842
- 981.** Doménech-Carbó Antonio , Martini Mariele, Machado de Carvalho Leandro, Doménech-Carbó María Teresa, Square wave voltammetric determination of the redox state of a reversibly oxidized/reduced depolarizer in solution and in solid state, Journal of Electroanalytical Chemistry, Volume 684, 15, Pages 13–19
- 982.** Bogdanov Bogdan Il, Pashev Plamen S., Hristov Yancho H., Georgiev Dimitar P., Markovska Irena G., Non-Isothermal Kinetics of Crystallization and Phase Transformation of SiO₂-Al₂O₃- CaOCaF Glass, World Academy of Science, Engineering and Technology 64,729-731, 2012

- 983.** Edelman, I.; Ivanova, O.; Ivantsov, R.; et al., Magnetic nanoparticles formed in glasses co-doped with iron and larger radius elements, JOURNAL OF APPLIED PHYSICS Volume: 112 Issue: 8 Article Number: 084331, DOI: 10.1063/1.4759244 Published: OCT 15 2012
- 984.** Kováčová Milota, Lovás Michal, Jakabský Štefan , Glassceramics from Industrial Waste Prepared in a Microwave Furnace, Acta Montanistica Slovaca Ročník 17 (2012), 1, 51-56, ISSN: 1335-1788

Karamanov A., Pelino, M."Influence of time-lag on the activation energy in non-isothermal crystallization",J. Non-Crystalline Solids, 290, 2001, 173-179, ISSN: 0022-3093

- 985.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN: 0022-3093
- 986.** M.S., Kuncser, V., Popa, S., Pasuk, I., Ghica, C., Sandu, E., Structure and magnetic properties of nanosized magnetite obtained by glass recrystallization Sandu, V., Nicolescu, Journal of Nanoscience and Nanotechnology 12 (6) , pp. 5043-5050, 2012
- 987.** Altin, S., Aksan, M.A., Yakinci, M.E., Fabrication of single crystalline Bi-2212 whiskers from Ga added Bi 2Sr 2Ca 2Cu 3O x composition and their thermal, structural, electrical and magnetic properties, Materials Chemistry and Physics 133 (2-3), pp. 706-712, 2012

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

- 988.** Edelman, I., Ivanova, O., Ivantsov, R., Velikanov, D., Zabluda, V., Zubavichus, Y., Veligzhanin, A., Kliava, J. Magnetic nanoparticles formed in glasses co-doped with iron and larger radius elements, Journal of Applied Physics 112 (8) , art. no. 084331, 2012, ISSN: 0021-8979

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

- 989.** LUO Qi , LIU Dachun, QU Tao , TIAN Yang , YANG Bin , DAI Yongnian, Volatile behavior of silicon by carbothermic reduction in vacuum, Journal of Central South University (Science and Technology) Vol.43 No.8. 2012

- 990.** Peng, B., Peng, J., Chai, L., Yu, D. , Solidification of EAF stainless steel dust, TMS Annual Meeting , pp. 453-460, 2012
- 991.** Sobrinho, V. D. P. F. M., De Oliveira, J.R., Telles, V.B., Grillo, F.F., Tenório, J.A.S., Espinosa, D.C.R. Recycling of eletric arc furnace dust: Evaluation of the iron metal incorporation in hot metal bath, TMS Annual Meeting , pp. 331-338, 2012
- 992.** Luo, Q., Qu, T., Liu, D., Tian, Y., Yang, B., Dai, Y. , Behavior of silicon in vacuum carbothermic reduction of saprolite nickel laterite, Zhenkong Kexue yu Jishu Xuebao/Journal of Vacuum Science and Technology 32 (5), pp. 430-436, 2012, ISSN:0253-9748
- 993.** LUO Qi , LIU DachunQU Tao , TIAN Yang, YANG Bin, DAI Yongnian, Volatile behavior of silicon by carbothermic reduction in vacuum, Journal of Central South University (Science and Technology), Vol.43 No.8, 2900-2908, 2012, ISSN: 1672-7207
- 994.** Sui, Y.-F., Sun, G.-D., Jin, F., Wang, C.-G., Guo, M., Zhang, M., Selective extraction of heavy metals Cr, Ni and Zn from stainless steel-making dust, Beijing Keji Daxue Xuebao/Journal of University of Science and Technology Beijing 34 (10) , pp. 1130-1137, 2012 SSN:1001-053X
- 995.** Sobrinho, V.P.F.M., De Oliveira, J.R., Telles, V.B., Grillo, F.F., Tenório, J.A.S., Espinosa, D.C.R., Recycling of electric arc furnace dust by adding to hot metal, Materials Science Forum 727-728 , pp. 1740-1745, 2012, ISSN: 0255-5476
- 996.** Kováčová Milota, Lovás Michal, Jakabský Štefan , Glassceramics from Industrial Waste Prepared in a Microwave Furnace, Acta Montanistica Slovaca Ročník 17 (2012), 1, 51-56, ISSN:1335-1788
- 997.** LUO Qi, QU Tao, LIU Dachun, XU Baoqiang, Behavior of magnesium in saprolite nickel laterite by carbothermic reduction in vacuum, YANG Bin, DAI YongnianJournal of Central South University (Science and Technology) 43 Vol.43 No.11, Nov. 2012

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

- 998.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN: 0022-3093

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

- 999.** LIU Yuanyuan , WANG Jiajia, LIN Xiang , WANG Liao , ZHONG Shan. Microstructures and thermal properties of municipal solid waste incineration fly ash, J. Cent. South Univ. 19: 855–862, 2012
- 1000.** Narottam P. Bansal,Aldo R. Boccaccini, Ceramics and Composites Processing Methods, Wiley, American Ceramic Society, 2012
- 1001.** Reben, M., Wasylak, J., Kosmal, M., Glass-ceramics from kinescope glass cullet Ceramic Transactions 231 , pp. 151-159, 2012
- 1002.** Yang, R., Liao, W.-P., Wu, P.-H., Basic characteristics of leachate produced by various washing processes for MSWI ashes in Taiwan , Journal of Environmental Management 104 , pp. 67-76, 2012
- 1003.** R MülleR, S ReinSch VISCOUS-PHASE SILICATE PROCESSING, E. Narottam P. Bansal, Aldo R. Boccaccini, Ceramics and Composites Processing Methods, John Wiley & Sons, Apr 17, - 550 pages, 2012
- 1004.** Kwang-suk Youa & Ji-Whan Ahna, Performance of sintering process to synthesize cementitious materials and to stabilize heavy metals from MSWI fly ash and water sludge, Geosystem Engineering, DOI:10.1080/12269328.2012.732318, Volume 15, Issue 4, pages 261-268, 2012

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

- 1005.** Angusheva, B., Fidancevska, E., Jovanov, V. , Production of ceramics from coal fly ash , Chemical Industry and Chemical Engineering Quarterly 18 (2) , pp. 245-254, 2012, ISSN: 1451-9372
- 1006.** Sheng, Yuan; Liu Yuanyuan; Chen Liqun; et al., Kinetics of sintering municipal solid waste incineration fly ash mixed with illite , RESEARCH JOURNAL OF CHEMISTRY AND ENVIRONMENT Volume: 16 Special Issue: 1, Pages: 28-34, JUL 2012
- 1007.** Liu Yuanyuan; He Jing; Chen Liqun; et al., Stabilization of heavy metals in MSWI fly ash through sintering with montmorillonitic clay , RESEARCH JOURNAL OF CHEMISTRY AND ENVIRONMENT Volume: 16, 1, Pages: 46-55 Published: JUL 2012

- 1008.** Vu, D.H., Wang, K.-S., Chen, J.-H., Nam, B.X., Bac, B.H., Glass-ceramic from mixtures of bottom ash and fly ash, Waste Management 32 (12) , pp. 2306-2314, 2012, ISSN:0956-053X

Karamanov A., Arrizza L., Matecovet I. and Pelino M., “Properties of sintered glass-ceramics in the diopside-albite system”, Ceramics International, 30, 2004, 2129-2135, ISSN: 0272-8842

- 1009.** Kaur Gurbinder, Pandey O.P., K. Singh, Interfacial study between high temperature SiO₂-B₂O₃-AO-La₂O₃ (A = Sr, Ba) glass seals and Crofer 22APU for solid oxide fuel cell applications, International Journal of Hydrogen Energy, Volume 37, Issue 8, 6862-6874, 2012, ISSN: 0360-3199
- 1010.** Ceylantekin, R., Uz, V., Yanik, G., Sirin, M., Kadioglu, H. ,Production of translucent ceramics containing diopside-akermanite phases by fast firing, Journal of Ceramic Processing Research 13 (4) , pp. 409-412, 2012, ISSN: 1229-9162
- 1011.** Kaur, G., Pandey, O.P., Singh, K., Chemical compatibility between MgO-SiO₂-B₂O₃-La₂O₃ glass sealant and low, high temperature electrolytes for solid oxide fuel cell applications, International Journal of Hydrogen Energy 37 (22) , pp. 17235-17244, 2012 , ISSN:0360-3199

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

- 1012.** Ma, B., Wang, J., Li, X., Effect of heavy metals and leaching toxicity of magnesium potassium phosphate cement Applied Mechanics and Materials 117-119, pp. 1080-1083, 2012, ISSN: 1660-9336
- 1013.** Qian Jueshi; Hou Pengkun; Wang Zhi; et al., Crystallization Characteristic of Glass-ceramic Made from Electrolytic Manganese Residue, JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION Volume: 27 Issue: 1 Pages: 45-49, DOI: 10.1007/s11595-012-0404-8, FEB 2012
- 1014.** Chou, Jing-Dong; Chang, Shih-Hsien; Lin, Chiou-Liang; et al, Evaluating the Relationships between Pb Species and Leaching Properties in Simulated MSWI Fly Ash with Thermal Treatment by ESCA , JOURNAL OF ENVIRONMENTAL ENGINEERING-ASCE Volume: 138 Issue: 6 Pages: 632-636, JUN 2012, ISSN:0733-9372 ISSN: 1000-2413

- 1015.** Tien-Chun Chu, Kuen-Sheng Wang, Kae-Long Lin, Chang-Ching Chien, Jung-Hsing Chen, Synthesis of waste-derived glass-ceramics from MSWI fly ash and EAF dust: Kinetics of nucleation and crystallization, ISI Journal Citation Reports Engineering Environmental; 47/133 (Engineering Chemical); 99/205 (Environmental Sciences), 23 APR 2012
- 1016.** Katz Sari, Grossman Eitan, Space Environment Effects on Polymer Matrix Composites, 2011 John Wiley & Sons, Inc. Published Online: DOI: 10.1002/9781118097298.weoc228, 20 JUL 2012
- 1017.** Vichaphund S., Jiemsirilers S., Thavorniti P., Sintering of Municipal Solid Waste Incineration Bottom Ash, Journal of Engineering Science, Vol. 8, 51–59, 2012
- 1018.** Gurbinder Kaur, Om P. Pandey, Kulvir Singh, Self-Healing Behavior of Barium–Lanthanum–Borosilicate Glass and Its Reactivity with Different Electrolytes for SOFC Applications, International Journal of Applied Ceramic Technology Article first published online: 12 NOV 2012, , ISSN: 1744-7402
- 1019.** Xiong Zhou and Honghua Tan, Leaching of Heavy Metals from Municipal Solid Waste Incineration (MSWI) Fly Ash Using Sulfuric Acid, Applied Mechanics and Materials (Volumes 249 - 250) , Volume Applied Mechanics and Mechanical Engineering, Pages 922-926, December, 2012

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

- 1020.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN: 0022-3093

Karamanov A., Taglieri G. And Pelino M., "Sintering in nitrogen atmosphere of iron-rich glass-ceramics ", J. American Cer. Soc., 87, 7, 2004, 1354-1357, ISSN: 0002-7820

- 1021.** Jensen, M., Zhang, L., Yue, Y. , Probing iron redox state in multicomponent glasses by XPS, Chemical Geology, 322-323 , pp. 145-150, 2012

Karamanov A, Aloisi M, Pelino M., "Sintering behaviour of a glass obtained from MSWI ash", Journal of European Cer. Soc, 25 (9): 1531-1540 JUN 2005, ISSN: 0955-2219

- 1022.** R MülleR, S ReinSch VISCOUS-PHASE SILICATE PROCESSING, ed. Narottam P. Bansal,Aldo R. Boccaccini, Ceramics and Composites Processing Methods, Wiley, American Ceramic Society, 2012

- 1023.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, *Journal of Non-Crystalline Solids* 358 (22) , 2012
- 1024.** Angusheva, B., Fidancevska, E., Jovanov, V. , Production of ceramics from coal fly ash, *Chemical Industry and Chemical Engineering Quarterly* 18 (2) , pp. 245-254, 2012

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

- 1025.** P Gutiérrez Ortega, ESTUDIO PARA EL RECICLADO DE PIEZAS DE DESECHO EN LA FABRICACIÓN DE LOZA SANITARIA, - 2012 - bibliotecavirtual.dgb.umich.mx

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

- 1026.** Vu, D.H., Wang, K.-S., Chen, J.-H., Nam, B.X., Bac, B.H., Glass-ceramic from mixtures of bottom ash and fly ash, *Waste Management* 32 (12) , pp. 2306-2314, 2012, ISSN: 0956-053X

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

- 1027.** R MülleR, S ReinSch VISCOUS-PHASE SILICATE PROCESSING, Ed. Narottam P. Bansal,Aldo R. Boccaccini, *Ceramics and Composites Processing Methods*, Wiley, American Ceramic Society, 2012
- 1028.** Ceylantekin, R., Uz, V., Yanik, G., Sirin, M., Kadioglu, H., Production of translucent ceramics containing diopside-akermanite phases by fast firing, *Journal of Ceramic Processing Research* 13 (4) , pp. 409-412, 2012, ISSN:1229-9162
- 1029.** Daguanoa, J.K.M.F. , Streckerb K, Ziematic E.C., Rogerod S.O., Fernandese M.H.V., Santos, C. , Effect of partial crystallization on the mechanical properties and cytotoxicity of bioactive glass from the 3CaO.P2O5-SiO2-MgO system, *Journal of the Mechanical Behavior of Biomedical Materials*, 14, P. 78–88, 2012, ISSN:1751-6161

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

- 1030.** Ptáček, P., Křečková, M., Šoukal, F., Opravil, T., Havlica, J., Brandštetr, J. , The kinetics and mechanism of kaolin powder sintering I., The dilatometric CRH study of sinter-crystallization of mullite and cristobalite Powder Technology 232 , pp. 24-30, 2012

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

- 1031.** Khater, G.A., Abdel-Motelib, A., El Manawi, A.W., Abu Safiah, M.O. Glass-ceramics materials from basaltic rocks and some industrial waste, Journal of Non-Crystalline Solids 358 (8) , pp. 1128-1134, 2012, ISSN: 0022-3093
- 1032.** R MülleR, S ReinSch VISCOUS-PHASE SILICATE PROCESSING, Ed. Narottam P. Bansal,Aldo R. Boccaccini, Ceramics and Composites Processing Methods, Wiley, American Ceramic Society, 2012
- 1033.** Borowski, G., Suitability tests of fly ashes vitrification from sewage sludge incineration, Archives of Environmental Protection 38 (2) , pp. 81-87, 2012
- 1034.** Păcurariu, C. Lazău I., Non-isothermal crystallization kinetics of some glass-ceramics with pyroxene structure, Journal of Non-Crystalline Solids, Volume 358, Issue 23, 1 p 3332–3337, 2012, ISSN: 0022-3093
- 1035.** SJÖBLOM R., ECKE H. & BRÄNNVALL E., Vitrified Forts As Anthropogenic Analogues For Assessment Of Long-Term Stability Of Vitrified Waste In Natural Environments, sjoblomscholar.org, 2012
- 1036.** Kováčová Milota, Lovás Michal, Jakabský Štefan , Glassceramics from Industrial Waste Prepared in a Microwave Furnace, Acta Montanistica Slovaca Ročník 17 (2012), 1, 51-56, ISSN:1335-1788
- 1037.** Selivanov Evgeniy and Gulyaeva Roza, Crystallization of Iron-Containing Oxide-Sulphide Melts, Institute of Metallurgy of the Ural Branch of the Russian Academy of Sciences Russia 271-302, Crystallization – Science and Technology 2012

Ergul S., Akyildiz M., Karamanov A., “Ceramic Material from Basaltic Tuffs”, Industrial Ceramics, 37, 2, 2007, 75-80, ISSN: 1121-7588

- 1038.** Naga, S.M., Bondioli, F., Wahsh, M.M.S., El-Omla, M., Utilization of granodiorite in the production of porcelain stoneware tiles, Ceramics International 38 (8) , pp. 6267-6272, 2012, ISSN: 0272-8842
- 1039.** F.O. Aramide, Production and Characterization of Porous Insulating Fired Bricks from Iron Clay with Varied Sawdust Admixture, Journal of Minerals

and Materials Characterization and Engineering, 2012, 11, 970-975doi:10.4236/jmmce.2012.1110098 Published Online October 2012

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

- 1040.** Khater, G.A., Abdel-Motelib, A., El Manawi, A.W., Abu Safiah, M.O. Glass-ceramics materials from basaltic rocks and some industrial waste, Journal of Non-Crystalline Solids 358 (8) , pp. 1128-1134, 2012, ISSN: 0022-3093
- 1041.** Ercenk, E., Sen, U., Yilrnaz, S., The effect of SiC addition on the crystallization kinetics of atmospheric plasmasprayed basalt-based coatings, Ceramics International 38 (8) , pp. 6549-6556, 2012
- 1042.** Păcurariu, C. Lazău I., Non-isothermal crystallization kinetics of some glass-ceramics with pyroxene structure, Journal of Non-Crystalline Solids, Volume 358, Issue 23, 1 p 3332–3337, 2012 , ISSN: 0022-3093
- 1043.** Ertuğra Burcu, & Demirkesenab Erdem, Controlled Crystallization of and Spherulitic Morphology in Li₂O·2SiO₂-BaO·2SiO₂ Glasses, Transactions of the Indian Ceramic Society, Volume 71, Issue 2, 2012

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

- 1044.** Sobiecka, E., Izidorczyk, M., Maniukiewicz, W., Bielski, C. Fresenius, Influence of different chemical compounds addition into medical waste ash to reduce leaching of vitrificates, Environmental Bulletin 21 (4) , pp. 814-818, 2012

Karamanov A. Pelino M., “Induced Crystallization Porosity and Properties of Sintered Diopside and Wollastonite Glass-Ceramics”, J. European Cer. Soc., 28, 2008, 555-562, ISSN: 0955-2219

- 1045.** Kansal, I., Goel, A., Tulyaganov, D.U., Rajagopal, R.R., Ferreira, J.M.F. Structural and thermal characterization of CaO-MgO-SiO₂-P₂O₅-CaF₂ glasses., Journal of the European Ceramic Society 32 (11) , pp. 2739-2746, 2012
- 1046.** Abdel-Hameed, S.A.M., El Defrawy, S.A., Sadek, H.E.H., Souaya, E.R., Effect of different nucleating agents on the crystallization of leucite, InterCeram: International Ceramic Review 61 (3) , pp. 127-133, 2012

- 1047.** Zuo, W., Tian, Y., Chen, D.-D., Zhao, B.-Y., A novel microwave induced process for the preparation of glass-ceramics from sewage sludge, Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology 44 (SUPPL.2) , pp. 274-278, 2012
- 1048.** Daguanoa, J.K.M.F. , Streckerb K, Ziematic E.C., Rogerod S.O., Fernandese M.H.V., Santos, C. , Effect of partial crystallization on the mechanical properties and cytotoxicity of bioactive glass from the 3CaO.P2O5–SiO₂–MgO system, Journal of the Mechanical Behavior of Biomedical Materials, 14, P. 78–88, 2012

Karamanova E., Karamanov A., "Glass-Ceramic Frits by Fly Ash in Terracotta Production", Waste Management & Research, 27-1, 2009, 87-92, ISSN:0734-242X

- 1049.** Reben, M., Wasylak, J., Kosmal, M., Glass-ceramics from kinescope glass cullet Ceramic Transactions 231 , pp. 151-159, 2012

Karamanov A., "Granite-like materials from hazardous wastes obtained by sinter-crystallization of glass frits", Advances in Applied Ceramics, 108, 1, 2009, 14-21, ISSN: 1743-6753

- 1050.** R MülleR, S ReinSch VISCOUS-PHASE SILICATE PROCESSING, Ed.Narottam P. Bansal,Aldo R. Boccaccini, Ceramics and Composites Processing Methods, Wiley, American Ceramic Society, 2012

Karamanov A., Arrizza L. , Ergul S., "Sintered Material From Alkaline Basaltic Tuffs", J. European Cer. Soc., 29, 2009, 595-601, ISSN: 0955-2219

- 1051.** Khater, G.A., Abdel-Motelib, A., El Manawi, A.W., Abu Safiah, M.O. Glass-ceramics materials from basaltic rocks and some industrial waste, Journal of Non-Crystalline Solids, 358 (8) , pp. 1128-1134, 2012, ISSN: 0022-3093
- 1052.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, Journal of Non-Crystalline Solids 358 (22) , 2012, ISSN: 0022-3093
- 1053.** Akinci, A., Yilmaz, S., Sen, U., Wear behavior of basalt filled low density polyethylene composites, Applied Composite Materials 19 (3-4) , pp. 499-511,2012

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, 2789-2795, ISSN: 0022-3093

- 1054.** Cornejo, N., Pascual, L., Tamayo, A., Rubio, F., Rodríguez, M.A., Rubio, J. Crystallization mechanism of glass-ceramics prepared from Ni-Cu-Co mining wastes, *Journal of Non-Crystalline Solids* 358 (22) , 2012, ISSN: 0022-3093
- 1055.** Ercenk, E., Sen, U., Yilrnaz, S., The effect of SiC addition on the crystallization kinetics of atmospheric plasmasprayed basalt-based coatings, *Ceramics International* 38 (8) , pp. 6549-6556, 2012, ISSN: 0022-3093
- 1056.** Naga, S.M., Bondioli, F., Wahsh, M.M.S., El-Omla, M., Utilization of granodiorite in the production of porcelain stoneware tiles, *Ceramics International* 38 (8) , pp. 6267-6272, 2012, ISSN: 0022-3093

Karamanova E., Avdeev G., Karamanov A., “New Building Ceramics based on Blast Furnace Slag”, J. European Ceramic Society, 31, 989–998, 2011, ISSN: 0955-2219

- 1057.** Andrews, E. Gikunoo, L. Ofosu-Mensah, H. Tofah, S. Bansah, Chemical and Mineralogical Characterization of Ghanaian Foundry Slags, *Journal of Minerals & Materials Characterization & Engineering*, Vol. 11, No.2 pp.183-192, 2012

Schabbach L.M., Andreola F., Karamanova E., Lancellotti I., Karamanov A., Barbieri L., Integrated approach to establish the sinter-crystallization ability of glasses from secondary raw material, 2011, Journal of Non-Crystalline Solids, (1) 10-17, ISSN: 0022-3093

- 1058.** Peng, C.-H., Lu, J.-S., Preparation and properties of calcium aluminosilicate glass-ceramics from waste glass and fly ash, *Cailiao Rechuli Xuebao/Transactions of Materials and Heat Treatment* 33 (10) , pp. 32-36, 2012

Karamanov A., Penkov I. Gutzow. I., Diopside marble-like Glass-ceramics”, Bulg. atent No 50879/ 1990

- 1059.** Wen Jin Ding, Tong Jiang Peng, Ji Ming Chen, Diopside-Based Glass-Ceramics from Chrysotile Asbestos Tailing, 2012, *Advanced Materials Research*, 427, 26-31, January, 2012

Andreola F., Barbieri L., Karamanova E., Lancellotti I., Pelino M., Recycling of CRT panel glass as fluxing agent in the porcelain stoneware tile production, 2008, Ceramics International, (5) 1289-129, ISSN:0272-8842

- 1060.** Furlani, E., Tonello, G., Aneggi, E., Maschio, S., Preparation and characterization of sintered ceramics made with spent foundry olivine sand and clay, *Ceramics International* 38 (4) , pp. 2619-2625, 2012, ISSN:0272-8842

- 1061.** Takei, T., Ota, H., Dong, Q., Miura, A., Yonesaki, Y., Kumada, N., Takahashi, H, Preparation of porous material from waste bottle glass by hydrothermal treatment,2012, Ceramics International 38 (3) , pp. 2153-2157, ISSN:0272-8842
- 1062.** Kuei Suan Jen Hsueh Pao, Effect of cathode ray tubes glass sand as fine aggregate on properties of mortar, Zhao, H., Sun, W. Zhao, H., Sun, W. , 2012, Journal of the Chinese Ceramic Society 40 (2) , pp. 240-246

S. Toschev and I. Markov, Electrolytic Nucleation of Cadmium, Electrochim. Acta, 12 (1967) 281. ISSN: 0013-4686

- 1063.** Popov, K.I., Živković, P.M., Nikolić, N.D., Formation of Disperse Silver Deposits by the Electrodeposition Processes at High Overpotentials Int. J. Electrochem. Sci. 7, 686 (2012). ISSN: 1452-3981
- 1064.** J. T.-Burgués, J. Solid State Electrochem. 2012, DOI: 10.1007/s10008-012-1872-7. ISSN: 1432-8488

S. Toschev and I. Markov, An Experimental Study of Non Steady State Nucleation, Ber. Bunsenges. phys. Chem., 73 (1969) 184. ISSN: 0005- 9021

- 1065.** J. T.-Burgués, Electrochemical nucleation: comparison test of classical and atomistic nucleation models, J. Solid State Electrochem. 2012, DOI: 10.1007/s10008-012-1872-7. ISSN: 1432-8488

Markov, A. Boynov and S. Toschev, Screening Action and Growth Kinetics of Electrodeposited Mercury Droplets, Electrochim. Acta, 18 (1973) 377. ISSN: 0013-4686

- 1066.** S. S. Djokić, Electrochemical Production of Metal Powders, Springer, 2012, 1, 1-63. ISBN 978-1-4614-2379-9
- 1067.** S. S. Djokić, Electrochemical Production of Metal Powders, Springer, 2012, 6, 344-369. ISBN 978-1-4614-2379-9

Markov, The Influence of Surface Diffusion Processes on the Kinetics of Heterogeneous Nucleation, Thin Solid Films, 8 (1971) 281. ISSN: 00406090

- 1068.** R. Lazzari and J. Jupille, Growth kinetics and size-dependent wetting of Ag/ α -Al (0001) nanoparticles studied via the plasmonic response, Nanotechnol. 23, 135707 (2012). ISSN: 1533-4880

Markov and D. Kashchiev, Nucleation on active centres. I. general theory, J. Cryst. Growth, 16 (1972) 170. ISSN: 0022-0248

- 1069.** T. N. Narayanan, Template Assisted Fabrication of 1-D Nanostructures of Nickel, Cobalt, Iron Oxide and Carbon nanotubes and a Study on Their Structural, Magnetic and Nonlinear Optical Properties for Applications, PhD Thesis, Cochin University of Science and Technology, India, 2012.

Markov and R. Kaischew, Influence of the Supersaturation on the Mode of Crystallization on Crystalline Substrates, Thin Solid Films, 32 (1976) 163. ISSN: 00406090

- 1070.** T. Shiramomo, B. Gao, F. Mercier, S. Nishizawa et al., of thermal stress on intrinsic defect formation during crystal growth, J. Cryst. Growth 352, 177 (2012). ISSN: 0022-0248

Markov and R. Kaischew, Influence of the Supersaturation on the Mode of Thin Film Growth, Kristall und Technik, 11 (1976) 685. ISSN: 0023-4753

- 1071.** T. Shiramomo, B. Gao, F. Mercier, S. Nishizawa et al., Impact of thermal stress on intrinsic defect formation during crystal growth, J. Crystal Growth 352, 177 (2012). ISSN: 0022-0248

Markov, Saturation Nucleus Density in the Electrodeposition of Metals onto Inert Electrodes, I. Theory, Thin Solid Films, 35 (1976) 11. ISSN: 00406090

- 1072.** T. N. Narayanan, PhD Thesis, Cochin University of Science and Technology, India, 2012.

Markov and E. Stoycheva, Saturation Nucleus Density in the Electrodeposition of Metals onto Inert Electrodes, II. Experimental, Thin Solid Films, 35 (1976) 21. ISSN: 00406090

- 1073.** T. N. Narayanan, PhD Thesis, Cochin University of Science and Technology, India, 2012.

S. Stoyanov and I. Markov, On the 2D-3D Transition in Epitaxial Thin Film Growth, Surf. Sci., 116 (1982) 313. ISSN: 0039-6028

- 1074.** Yu. Yu. Hervieu, Элементарные процессы на ступенях в кинетике эпитаксиального роста и легирования при сильных отклонениях от равновесия, PhD Thesis, Tomsk State University, 2012.

- 1075.** V. Scherf, Adsorption von Silber an einer Re 1010 –Oberfläche, PhD Thesis, Freie Universität Berlin, 2012.

Markov, Growth of Thin Epitaxial Films, Electrochim.Acta, 28 (1983) 959. ISSN: 0013-4686

- 1076.** V. Scherf, Adsorption von Silber an einer Re 1010 –Oberfläche, PhD Thesis, Freie Universität Berlin, 2012.

Markov and S. Stoyanov, Mechanisms of Epitaxial Growth, Contemp. Phys., 28 (1987) 267. ISSN: 0010-7514

- 1077.** Yu. Yu. Hervieu, Элементарные процессы на ступенях в кинетике эпитаксиального роста и легирования при сильных отклонениях от равновесия, PhD Thesis, Tomsk State University, 2012.

Markov, Kinetics of Surfactant mediated epitaxial growth, Phys. Rev. B 50 (1994) 11271. ISSN: 1098-0121

- 1078.** Y.-L. Tang, R.-W. Li et al., Relaxation properties of graphene nanoribbons at different ambient, Acta Phys. Sinica 61, 186802 (2012). ISSN: 1000-3290
- 1079.** B. Zhou, X. H. Jiang, A.V. Rogachev, R. Q. Shen, Frontier in information engineering for mechanics and materials Adv. Mater. Res. 629, 25 (2012). ISSN: 1662-8985

Markov, Crystal Growth for Beginners, Fundamentals of Nucleation, Crystal Growth and Epitaxy, World Scientific, Singapore, 1995, 2003. ISBN: 978-981-238-245-0

- 1080.** M. P. Attfield and P. Cubillas, Perspective From themed issue Coordination chemistry in the solid state., Dalton Trans. 41, 3869 (2012). ISSN: 0300-9246
- 1081.** S. Cho and K.-H. Lee, Chemical Control of Crystal Growth with Multidentate Carboxylate, Cryst. Growth Des. 12, 994 (2012). ISSN: 1528-7483
- 1082.** T. Wang, Y. Zhu and Q. Jiang, Molecular orientation transformation in initial growth stage of disk, Chem. Sci., 3, 528 (2012). ISSN: 1478-6524
- 1083.** K. Hinzer, Optical properties og GaAs-based self-assembled quantum dots and quantum dot lasers, PhD Thesis, University of Ottawa, 2012.
- 1084.** P. J. Skrdla, Minimizing Defects in Polymer-Based Langmuir–Blodgett Monolayers, Langmuir 28, 4842 (2012). ISSN 0743-7463
- 1085.** S. Jin, P. Shen, Y. Li, D. Zhou et al., Synthesis of spherical NbB₂–x particles by controlling the, Cryst. Eng. Comm 14, 1925 (2012). ISSN: 1466-8033
- 1086.** W. Wang, Z. Gai, M. Chi, J. D. Fowlkes et al., Growth diagram and magnetic properties of hexagonal LuFe, arXiv:1203.0955v1, 2012. ISSN 1229-2370
- 1087.** D. E. Bugaris, H.-C. zur Loyer, Materials discovery by flux crystal growth higher, Angew. Chemie Int. Ed. 51, 3780 (2012). ISSN: 1433-7851

- 1088.** D. E. Bugaris, H.-C. zur Loyer, Angew. Materials discovery by flux crystal growth, Chemie 124, 3844 (2012). ISSN: 0044-8249
- 1089.** J. Gao, J. Zhao, F. Ding, Transition metal surface passivation induced graphene edge, J. Amer. Chem. Soc. 134, 6204 (2012). ISSN: 0002-7863
- 1090.** M. Sleutel, D. Maes, A. van Driessche, in: Kinetics and Thermodynamics of Multistep Nucleation and Self-Assembly in Nano-Scale Materials, G. Nicolis and D. Maes eds., Wiley&Sons, 2012, 223. ISBN: 9781118309513
- 1091.** F. S. Khokhar, Organic molecular films on metal and graphene surfaces studied by LEEM, PhD Thesis, University of Twente, The Netherlands, 2012.
- 1092.** W. I. Babiaczyk, S. Bonella, G. Ciccotti, M. L. Coluccio et al., Simulation Methods for Condensed Matter Systems, Nanoscale 4, 2362 (2012). ISSN: 2040-3372
- 1093.** F. Jiang, J. Liu, Y. Li, L. Fan et al. Controlled transformation of aqueous CdTe quantum dots, Adv. Funct. Mater. 22, 2402 (2012). ISSN: 1616-301X
- 1094.** Virkar, Investigating the Nucleation, Growth, and Energy Levels of Organic Semiconductors for High Performance Plastic Electronics, 2.1: Organic Semiconductor Growth and Transistor Performance as a Function of the Density of the Octadecylsilane Dielectric Modification Layer, Springer Theses, 2012, 27-49, DOI: 10.1007/978-1-4419-9704-3_2
- 1095.** O. Skibitzki, F. Hatami, Y. Yamamoto, P. Zaumseil, GaP collector development for SiGe heterojunction bipolar transistor performance increase: A heterostructure growth study., J. Appl. Phys. 111, 073515 (2012). ISSN: 0021-8979
- 1096.** J. J. Hinarejos, J. V. A. Carrera, Course title: Materials science, Universidad Autonoma de Madrid, Departamento de Fisica de la Materia Condensada, 2012.
- 1097.** M. Sleutel, G. Sasaki, and A. E. S. Van Driessche, Laser energy dependence on femtosecond laser-induced nucleation of protein Cryst. Growth Des. 12, 2367 (2012). ISSN: 1528-7483
- 1098.** T. Jain, S. Lara-Avila, Y.-V. Kervennic, K. Moth-Poulsen et al., Aligned Growth of Gold Nanorods in PMMA Channels, ACS Nano, DOI: 10.1021/nn204986y (2012). ISSN 1936-0851
- 1099.** W. Wenbin, G. Zheng, C. Miaofang, Growth diagram and magnetic properties, Phys. Rev. B 85, 155411 (2012). ISSN: 1098-0121

- 1100.** L. Persichetti, A. Sgarlata, G. Mattoni, M. Fanfoni, and A. Balzarotti, Orientational phase diagram of the epitaxially strained Si(001), Phys. Rev. B 85, 195314 (2012). ISSN: 1098-0121
- 1101.** D.-J. Liu, D. M. Ackerman, X. Guo, M. A. Alba et al., MRS Proc. 1411 – Symp. EE – Self Organization and Nanoscale Pattern Formation, 2012.
- 1102.** C. Noguera, B. Fritz, and A. Clément, Simulation of the nucleation and growth of clay minerals, Cryst. Growth Des. 12, 3444 (2012). ISSN: 1528-7483
- 1103.** L. M. Hamm, Calcium Carbonate biomineralization, PhD Thesis, Virginia Tech, Blacksburg, 2012.
- 1104.** D. Schwarz, R. van Gastel, H. J. W. Zandvliet, and B. Poelsema, Phase transformations of 4,4'-biphenyldicarboxylic acid on Cu(001), Phys. Rev. B 85, 235419 (2012). ISSN: 1098-0121
- 1105.** J. H. Yamaguchi, Catalyst Free MBE-VLS growth of GaAs/AlGaAs core-shell nanowires on (111)Si substrate, PhD Thesis, Nagoya University, 2012. (in Japanese)
- 1106.** G. H.-P. Shih, Nanostructure and Optoelectronic Phenomena in Germanium-Transparent Conductive Oxide (GE:TCO) Composites, PhD Thesis, University of Arizona, 2012.
- 1107.** K. Sakurai, MBE growth and properties of ZnO and ZnCdO thin films. PhD Thesis, Kyoto University, 2012.
- 1108.** S. Bellucci, Self-Assembly of Nanostructures: The INFN Lectures, vol. 3, Springer, 2012, 265. ISBN-10: 3540709436
- 1109.** T.P. Schulze and P. Smereka, Kinetic Monte Carlo Simulation of Heteroepitaxial Growth: Wetting Layers, Quantum Dots, Capping, and NanoRings, (2012).
- 1110.** J. Hickey, Beyond Classical Nucleation Theory: a 2-D Lattice-Gas Automata Model, PhD Thesis, University of Ottawa, 2012.
- 1111.** S. Bhargava, Growth dynamics of organic thin films, PhD Thesis, Cornell University, 2012.
- 1112.** S. Carlert, Investigation and prediction of small intestinal precipitation of poorly soluble drugs, PhD Thesis, University of Uppsala, 2012.

- 1113.** S. A. Little, Enhancement of Cu(In,Ga)Se₂ Solar Cells and Materials via the Incorporation of Silver, PhD Thesis, University of Toledo, 2012.
- 1114.** C. M. Weber, Nucleation at nano-structured substrates, PhD Thesis, Technische Universität Berlin, 2012.
- 1115.** V. Kalihari, Transverse Shear Microscopy: A Novel Microstructural Probe for Organic Semiconductor Thin Films, PhD Thesis, University of Minnesota, 2012.
- 1116.** J. P. Caputa, Boundary conditions for vapor-solid interfaces, PhD Thesis, University of Ottawa, 2012.
- 1117.** M. Ivanov, Dynamics of Steps on Vicinal Surfaces, PhD Thesis, Universitaet zu Koeln, 2012.
- 1118.** K. Harano, T. Homma, Y. Niimi, M. Koshino et al., Heterogeneous nucleation of organic crystals, *Nat. Mater.* 11, 877 (2012). ISSN:1476-1122
- 1119.** Yu. Yu. Hervieu, Элементарные процессы на ступенях в кинетике эпитаксиального роста и легирования при сильных отклонениях от равновесия, PhD Thesis, Tomsk State University, 2012.
- 1120.** N. Akutsu, Sticky steps inhibit step motions near equilibrium, arXiv preprint arXiv:1204.5574, 2012. ISSN 1229-2370
- 1121.** B. G. Haile, An Experimental Study of the Effect of Dissolved Acetate ion on Calcite Precipitation Kinetics and its Implications for Subsurface CO₂ Storage, Master Thesis, University of Oslo, 2012.
- 1122.** Y. Suzuki, in Modern Aspects of Bulk Crystal and Thin Film Preparation, ed. by Dr. N. Kolesnikov., 19, Protein Crystal Growth Under High Pressure, p. 439, InTech, 2012. ISBN 978-953-307-610-2
- 1123.** C. Waurisch, Thermodynamic and kinetic investigations into the syntheses of CdSe and CdTe nanoparticles, PhD Thesis, Technische Universität Dresden, 2012. Ch. 2.C. Waurisch, Thermodynamic and kinetic investigations into the syntheses of CdSe and CdTe nanoparticles, PhD Thesis, Technische Universität Dresden, 2012. Y. Kondo, Highly-Uniform Growth and Wiring Process Development for the InGaAs Epitaxial Microdiscs on Si(111) Substrate, PhD Thesis, University of Tokyo, 2012.
- 1124.** J. Chen, Highly Sensitive and Selective Gas Sensors Based on Vertically Aligned Metal Oxide Nanowire Arrays, PhD Thesis, University of New Orleans, 2012.

1125. P. Frajtag, Light-emitting Diodes Based on Epitaxy on Non-polar Sidewalls and III-Nitrides Nanowires, PhD Thesis, North Carolina State University, 2012.

1126. D. S. Ghidini, Growth and structural characterization of GaP/Ga (P_{1-x}Sbx) nanowires, PhD Thesis, Lind University, 2012.

E. Korutcheva, A. M. Turiel and I. Markov, Coherent Stranski-Krastanov growth in 1+1 dimensions with anharmonic interactions: An equilibrium study, Phys. Rev. B 61, 16890 (2000).

1127. Yu. Yu. Hervieu, Элементарные процессы на ступенях в кинетике эпитаксиального роста и легирования при сильных отклонениях от равновесия, PhD Thesis, Tomsk State University, 2012.

Y. P. Leung, W. Choy, I. Markov, G. K. H. Pang, H. C. Ong, T. I. Yuk, Synthesis of wurtzite ZnSe nanorings by thermal evaporation, Appl. Phys. Lett. 88, 183110 (2006). ISSN: 0003-6951

1128. Q. Han, Y. Yuan, X. Liu, X. Wu et al., Room-temperature synthesis of self-assembled Sb₂S₃ films, Langmuir, 28, 6726 (2012). ISSN: 0743-7463

1129. H. I. Wang, W. T. Tang, L. W. Liao, P. S. Tseng et al., Femtosecond Laser-Induced Formation of Wurtzite Phase ZnSe , J Nanomater. 2012, 278364 (2012). ISSN: 1687-4110

1130. X. Zhang, Y. Zhang, Y. Wu, C. Xie et al., J. Mater. Chem. 22, 22873 (2012). ISSN: 0959-9428

1131. J. Xu , C. Wang , Y. Zhang , X. Liu et al., Structural, vibrational and luminescence properties of longitudinal twinning Zn₂GeO₄ nanowires, Cryst. Eng. Comm. , 2012, Advance Article DOI: 10.1039/C2CE26627J. ISSN: 1466- 8033

J. E. Prieto and I. Markov, Forbidden Island Heights in Stress-Driven Coherent Stranski-Krastanov Growth, Phys. Rev. Lett. 98, 176101 (2007).

1132. Picone, G. Bussetti, M. Riva, A. Calloni et al., Oxygen-assisted Ni growth on Fe(001), Phys. Rev. B 86, 075465 (2012). ISSN: 1098-0121

Rangelov, M. S. Altman, I. Markov, Critical terrace width for step flow growth: Effect of attachment-detachment asymmetry and step permeability, Phys. Rev. B 75, 245419 (2007). ISSN: 1098-0121

1133. Yu. Yu. Hervieu, Элементарные процессы на ступенях в кинетике эпитаксиального роста и легирования при сильных отклонениях от равновесия, PhD Thesis, Tomsk State University, 2012.

J. E. Prieto and I. Markov, Effect of the lattice misfit on the equilibrium shape of strained islands in Volmer-Weber growth, Phys. Rev. B 82, 165423 (2010). ISSN: 1098-0121

- 1134.** R. Lazzari and J. Jupille, Growth kinetics and size-dependent wetting of Ag/ α -Al23 (0001) Nanotechnol. 23, 135707 (2012). ISSN: 1361-6528

J. E. Prieto and I. Markov, Quantum dots nucleation in strained layer epitaxy: Minimum energy pathway in stress-driven two-dimensional to three-dimensional transformation, Phys. Rev. B 72, 205412 (2005). ISSN: 1098-0121

- 1135.** Yu. Yu. Hervieu, Элементарные процессы на ступенях в кинетике эпитаксиального роста и легирования при сильных отклонениях от равновесия, PhD Thesis, Tomsk State University, 2012.

M. Petrova, Z. Noncheva, Ek. Dobreva, Electroless deposition of diamond powder dispersed nickel-phosphorus coatings on steel substrate, Transactions of the Institute of Metal Finishing, 89 (2), (2011), pp. 89-94, ISSN: 0020-2967

- 1136.** Ranganatha, S., Venkatesha, T.V., Vathsala, K., Electroless Ni-W-P coating and its nano-WS₂ composite: Preparation and properties, Industrial and Engineering Chemistry Research, 51 (23), (2012), pp. 7932-7940, ISSN: 0888-5885

- 1137.** Srinivasan, K.N., Thangavelu, P.R., Electroless deposition of Ni-P composite coatings containing kaolin nanoparticles, Transactions of the Institute of Metal Finishing, 90 (2), (2012), pp. 105-112, ISSN: 0020-2967

I.Ivanov, Y. Stefanov, Z. Noncheva, M. Petrova, Ts. Dobrev, L. Mirkova, R. Vermeersch, J.-P. Demaerel, Insoluble anodes used in hydrometallurgy Part II. Anodic behaviour of lead and lead-alloy anodes, Hydrometallurgy, 57 (2), (2000), pp.125-139, ISSN: 0304-386x

- 1138.** Barmi, M.J., Nikoloski, A.N., Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, Hydrometallurgy, 129-130, (2012), pp. 59-66, ISSN: 0304-386x

- 1139.** Yang, C.J., Ko, Y., Park, S.-M., Fourier transform electrochemical impedance spectroscopic studies on anodic reaction of lead, Electrochimica Acta, 78, (2012), pp. 615-622, ISSN: 0013-4686

- 1140.** Alamdari, E.K., Darvishi, D., Samadi Khoshkhoo, M., Javid, F.A., Marashi, S.P.H., On the way to develop co-containing lead anodes for zinc electrowinning, Hydrometallurgy, 119, (2012), pp. 77-86, ISSN: 0304-386x

- 1141.** Tunnicliffe, M., Mohammadi, F., Alfantazi, A., Polarization behavior of lead-silver anodes in zinc electrowinning electrolytes, Journal of the

Electrochemical Society, 159 (4), (2012), pp. C170-C180, ISSN: 1945-7111
online, ISSN: 0013-4651 print

- 1142.** Pérez-González, F.A., Camurri, C.G., Carrasco, C.A., Colás, R., Precipitation in a lead calcium tin anode, Materials Characterization, 64, (2012), pp. 62-68, ISSN: 1044-5803

I.Ivanov, Y. Stefanov, Z. Noncheva, M. Petrova, Ts. Dobrev, L. Mirkova, R. Vermeersch, J.-P. Demaerel, Insoluble anodes used in hydrometallurgy Part I. Corrosion resistance of lead and lead alloy anodes, Hydrometallurgy, 57 (2), (2000), pp.109-124, ISSN: 0304-386x

- 1143.** Barmi, M.J., Nikoloski, A.N., Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, Hydrometallurgy, 129-130, (2012), pp. 59-66, ISSN: 0304-386x
- 1144.** Yang, C.J., Ko, Y., Park, S.-M., Fourier transform electrochemical impedance spectroscopic studies on anodic reaction of lead, Electrochimica Acta, 78, (2012), pp. 615-622, ISSN: 0013-4686
- 1145.** Xu, R.D., Huang, L.P., Zhou, J.F., Zhan, P., Guan, Y.Y., Kong, Y., Effects of tungsten carbide on electrochemical properties and microstructural features of Al/Pb-PANI-WC composite inert anodes used in zinc electrowinning, Hydrometallurgy, 125-126, (2012), pp. 8-15, ISSN: 0304-386x
- 1146.** Dashti, S., Rashchi, F., Vahidi, E., A study on the effect of different additives in electrolyte in zinc electrowinning process using Taguchi statistical experimental design methodology, TMS Annual Meeting, (2012), pp. 87-94, ISSN: Coverage: 1995-1998, 2000-2011
- 1147.** Alamdari, E.K., Darvishi, D., Samadi Khoshkhoo, M., Javid, F.A., Marashi, S.P.H., On the way to develop co-containing lead anodes for zinc electrowinning, Hydrometallurgy, 119, (2012), pp. 77-86, ISSN: 0304-386x
- 1148.** Tunnicliffe, M., Mohammadi, F., Alfantazi, A., Polarization behavior of lead-silver anodes in zinc electrowinning electrolytes, Journal of the Electrochemical Society, 159 (4), (2012), pp. C170-C180, ISSN: 1945-7111
online, ISSN: 0013-4651 print
- 1149.** Pérez-González, F.A., Camurri, C.G., Carrasco, C.A., Colás, R., Precipitation in a lead calcium tin anode, Materials Characterization, 64, (2012), pp. 62-68, ISSN: 1044-5803

M. Petrova, Y. Stefanov, Z. Noncheva, Ts. Dobrev, St. Rashkov, Electrochemical behaviour of lead alloys as anodes in zinc electrowinning, British Corrosion Journal, 34 (3), (1999), pp. 198-200, ISSN: 0007-599

- 1150.** Salghi, R., Zarrouk, A., Bazzi, L., Zarrouk, H., Bammou, L., Hammouti, B., Mihit, M., Al-Deyab, S.S., Effect of halogen ions in the electrochemical behaviour of lead in hydrochloride medium, *Der Pharma Chemica*, 4 (1), (2012), pp. 448-454, ISSN: 0975-413x
- 1151.** Li, J.-P., Jiang, H.-F., Mao, D.-H., Zeng, L.-B., Effect of rolling deformation on properties of roll casting lead alloy strips, *Cailiao Gongcheng/Journal of Materials Engineering*, (4), (2012), pp. 17-21, ISSN: 1001-4381

S. Rashkov, T. Dobrev, Z. Noncheva, Y. Stefanov, B. Rashkova, M. Petrova, Lead-cobalt anodes for electrowinning of zinc from sulphate electrolytes, Hydrometallurgy, 52 (3), (1999), pp. 223-230, ISSN-0304-386x

- 1152.** Neuróhr, K., Dégi, J., Pogány, L., Bakonyi, I., Ungvári, D., Vad, K., Hakl, J., Révész, Á., Péter, L., Composition, morphology and electrical transport properties of Co-Pb electrodeposits, *Journal of Alloys and Compounds*, 545, (2012), pp. 111-121, ISSN: 0925-8388
- 1153.** Barmi, M.J., Nikoloski, A.N., Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, *Hydrometallurgy*, 129-130, (2012), pp. 59-66, ISSN-0304-386x
- 1154.** Xu, R.D., Huang, L.P., Zhou, J.F., Zhan, P., Guan, Y.Y., Kong, Y., Effects of tungsten carbide on electrochemical properties and microstructural features of Al/Pb-PANI-WC composite inert anodes used in zinc electrowinning, *Hydrometallurgy*, 125-126, (2012), pp. 8-15, ISSN-0304-386x
- 1155.** Alamdari, E.K., Darvishi, D., Samadi Khoshkhoo, M., Javid, F.A., Marashi, S.P.H., On the way to develop co-containing lead anodes for zinc electrowinning, *Hydrometallurgy*, 119, (2012), pp. 77-86, ISSN-0304-386x

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

- 1156.** Li, J.-P., Jiang, H.-F., Mao, D.-H., Zeng, L.-B., Effect of rolling deformation on properties of roll casting lead alloy strips, *Cailiao Gongcheng/Journal of Materials Engineering*, (4), (2012), pp. 17-21, ISSN: 1001-4381

St. Rashkov, Y. Stefanov, Z. Noncheva, M. Petrova, Ts. Dobrev, N. Kunchev, D. Petrov, St. Vlaev, V. Mihnev, S. Zarev, L. Georgieva, D. Buttinelli, Investigation of the processes of obtaining plastic treatment and electrochemical behaviour of lead alloys in their capacity as anodes during the electro-extraction of zinc II. Electrochemical formation of phase layers

on binary Pb-Ag and Pb-Ca, and ternary Pb-Ag-Ca alloys in a sulphuric-acid electrolyte for zinc electro-extraction, Hydrometallurgy, 40 (3), (1996), 319-334, ISSN: 0304-386x

- 1157.** Zhan, P., Xu, R.-D., Huang, L.-P., Chen, B.-M., Zhou, J.-F., Effects of polyaniline on electrochemical properties of composite inert anodes used in zinc electrowinning, Transactions of Nonferrous Metals Society of China (English Edition), 22 (7), (2012), pp. 1693-1700, ISSN: 1003-6326
- 1158.** Lai, Y., Li, Y., Jiang, L., Xu, W., Lv, X., Li, J., Liu, Y., Electrochemical behaviors of co-deposited Pb/Pb-MnO₂ composite anode in sulfuric acid solution - Tafel and EIS investigations, Journal of Electroanalytical Chemistry, 671, (2012), pp. 16-23, ISSN: 1572-6657
- 1159.** Li, J.-P., Jiang, H.-F., Mao, D.-H., Zeng, L.-B., Effect of rolling deformation on properties of roll casting lead alloy strips, Cailiao Gongcheng/Journal of Materials Engineering, (4) (2012), pp. 17-21, ISSN: 1001-4381
- 1160.** Lai, Y.Q., Li, Y., Jiang, L.X., Lv, X.J., Li, J., Liu, Y.X., Electrochemical performance of a Pb/Pb-MnO₂ composite anode in sulfuric acid solution containing Mn²⁺, Hydrometallurgy, 115-116, (2012), pp. 64-70, ISSN-0304-386x

C. Bozhkov, M. Petrova, St. Rashkov, The effect of nickel on the mechanism of the initial stages of zinc electrowinning from sulphate electrolytes. Part II. Investigations on aluminium cathodes alloyed with iron impurities, Journal of Applied Electrochemistry, 20 (1), (1990), pp. 17-22, ISSN-0021-891x

- 1161.** Phuong, N.V., Kwon, S.C., Lee, J.Y., Lee, J.H., Lee, K.H., The effects of pH and polyethylene glycol on the Cr(III) solution chemistry and electrodeposition of chromium, Surface and Coatings Technology, 206 (21), (2012), pp. 4349-4355, ISSN: 0257-8972

C.Cashet, R.Wiart, I.Ivanov, Y.Stefanov, St.Rashkov, Mechanism of the reverse dissolution of zinc on the presence of nickel. Part II: Influence of triethylbenzylammonium chloride, J. Appl. Electrochem., 24 (1994) 713 ISSN: 0021-891X.

- 1162.** Zhang, Q., Hua, Y., Kinetic investigations of zinc electrodeposition from sulfate electrolytes in the presence of impurities and ionic liquid additive [BMIM]HSO₄, Materials Chemistry and Physics, 134 (1) (2012) 333.

I.Ivanov, Y. Stefanov, Z. Noncheva, M.Petrova, Ts.Dobrev, L. Mirkova, R. Vermeersch, J.-P.Demaerel, Insoluble anodes used in hydrometallurgy. Part I. Corrosion resistance of lead and lead alloy anodes, Hydrometallurgy, 57 (2000) 109 ISSN: 0304-386X.

- 1163.** W.Zhang, YiFeng Chen, Edward Ghali, Georges Houlachi, Effect of Ag Content in Lead Anodes on Oxygen Evolution during Zinc Electrowinning, International Conference on Power and Energy Systems, Lecture Notes in Information Technology, vol.13 (2012) 311.

- 1164.** Barmi, M.J., Nikoloski, A.N., Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, *Hydrometallurgy*, 129-130 (2012) 59 ISSN: 0304-386X.

I.Ivanov, Y.Stefanov, Electroextraction of zinc from sulphate electrolytes containing antimony and hydroxyethylated-butine-2-diol-1,4. Part 2: Deposition on a specpure aluminium cathode, Hydrometallurgy, 64 (2002) 111 ISSN: 0304-386X..

- 1165.** Barmi, M.J., Nikoloski, A.N., Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, *Hydrometallurgy*, 129-130 (2012) 59 ISSN: 0304-386X.

I.Ivanov, Y.Stefanov, Electroextraction of zinc from sulphate electrolytes containing antimony and hydroxyethylated-butine-2-diol-1,4. Part 3: The influence of manganese ions and a diveded cell, Hydrometallurgy, 64 (2002) 181 ISSN: 0304-386X..

- 1166.** Lay, Y.-Q., Li, Y., Jiang, L.X., Lv, X.J., Li, J., Liu, Y.X., Electrochemical performance of a Pb/Pb-MnO₂ composite anode in sulfuric acid solution containing Mn²⁺, *Hydrometallurgy*, 115-116 (2012) 64 ISSN: 0304-386X.

Y.Stefanov, I.Ivanov, The influence of nickel ions and triethylbenzylammonium chloride on the electrowinning of zinc from sulphate electrolytes containing manganese ions, Hydrometallurgy, 64 (2002) 193 ISSN: 0304-386X.

- 1167.** Zhang, Q., Hua, Y., Kinetic investigations of zinc electrodeposition from sulfate electrolytes in the presence of impurities and ionic liquid additive [BMIM]HSO₄, *Materials Chemistry and Physics*, 134 (1) (2012) 333. ISSN: 0254-0584

- 1168.** Liu, Z., Yu, X., Xie, G., Lu, Y., Hou, Y., He, E., Influence of nickel on cathode process of zinc electrowinning, *Hydrometallurgy*, 125-126 (2012) 29 ISSN: 0304-386X.

Y.Stefanov, Ts.Dobrev, Developing and studying the properties of Pb-TiO₂ alloy coated lead composite anodes for zinc electrowinning, Transanctions of the Institute of Metal Finishing, 83 (6) (2005) 291 ISSN: 0020-2967.

- 1169.** Lai, Y., Li, Y., Jiang, L., Xu, W., Lv, X., Li, X., Liu, Y., Electrochemical behaviours of co-deposited Pb/Pb-MnO₂ composite anode in sulfuric acid solution – Tafel and EIS investigations, *Journal of Electroanalytical Chemistry*, 671 (2012) 16.

- 1170.** Lay, Y.-Q., Li, Y., Jiang, L.X., Lv, X.J., Li, J., Liu, Y.X., Electrochemical performance of a Pb/Pb-MnO₂ composite anode in sulfuric acid solution containing Mn²⁺, *Hydrometallurgy*, 115-116 (2012) 64 ISSN: 0304-386X .

Y.Stefanov, Ts.Dobrev, Potentiodynamic and electronmicroscopy investigations of lead-cobalt alloy coated lead composite anodes for zinc electrowinning, Transanctions of the Institute of Metal Finishing, 83 (6) (2005) 296 ISSN: 0020-2967.

- 1171.** Zhan, P., Xu, R.-D., Huang, L.-P., Chen, B.-M., Zhou, J.-F., Effects of polyaniline on electrochemical properties of composite inert anodes used in zinc electrowinning, *Transactions of Nonferrous Metals Society of China* (English Edition), 22 (7) (2012) 1693.

Ts.Dobrev, I.Valchanova, Y.Stefanov, S.Magaeva, Investigations of new anodic materials for zinc electrowinning, Transactions of the Institute of Metal Finishing, Volume 87, No3 (2009) 136 ISSN: 0020-2967

- 1172.** Lai, Y., Li, Y., Jiang, L., Xu, W., Lv, X., Li, X., Liu, Y., Electrochemical behaviours of co-deposited Pb/Pb-MnO₂ composite anode in sulfuric acid solution – Tafel and EIS investigations, *Journal of Electroanalytical Chemistry*, 671 (2012) 16.

- 1173.** Lay, Y.-Q., Li, Y., Jiang, L.X., Lv, X.J., Li, J., Liu, Y.X., Electrochemical performance of a Pb/Pb-MnO₂ composite anode in sulfuric acid solution containing Mn²⁺, *Hydrometallurgy*, 115-116 (2012) 64 ISSN: 0304-386X .

Ivanov, I., Increased current efficiency of zinc electrowinning in the presence of metal impurities by addition of organic inhibitors. Hydrometallurgy 72 (2004) 73–78 ISSN: 0304-386X.

- 1174.** Y.Q. Lai, Y. Li, L.X. Jiang, X.J. Lv, J. Li, Y.X. Liu, Electrochemical performance of a Pb/Pb-MnO₂ composite anode in sulfuric acid solution containing Mn²⁺, *Hydrometallurgy* 115-116 (2012) 64–70 ISSN: 0304-386X.

Ivan, I., Rashkov, St., Electroextraction of zinc from sulfate electrolytes containing germanium, antimony and nickel ions, Stud. Univ. Babes-Bolyai, Chem. XLI, 2 (1996) pp. 122–137.

- 1175.** Zhidong Liu, Xiaohua Yu, Gang Xie, Ying Lu, Yanqing Hou, En He, Influence of nickel on cathode process of zinc electrowinning, *Hydrometallurgy*, 125–126 (2012) 29–33 ISSN: 0304-386X.

Ivanov, I., Increased current efficiency of zinc electrowinning in the presence of metal impurities by addition of organic inhibitors. Hydrometallurgy 72 (1–2), (2004) 73–78 ISSN: 0304-386X..

- 1176.** Aleksandar N. Nikoloski, Electrodeposition of lead–cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite

coated anodes for copper electrowinning, Maryam Jozegholami Barmi, Hydrometallurgy 129–130 (2012) 59–66. ISSN: 0304-386X.

Ivanov, I., Kirilova, I., Corrosion resistance of compositionally modulated multilayered Zn–Ni alloys deposited from a single bath, J Appl Electrochem., 33 (2003) 239 ISSN: 1572-8838..

- 1177.** S. Basavanna, Y. Arthoba Naik, Study of the effect of new brightener on Zn–Ni alloy electrodeposition from acid sulphate bath, *J Appl Electrochem.* 41 (2011) 535–541 **ISSN: 1572-8838...**

Hrušanova A., Mirkova L., Dobrev T., Anodic behaviour of the Pb-Co₃O₄ composite coating in copper electrowinning, Hydrometallurgy, 60 (3) (2001) 199-213. ISSN: 0304-386X.

- 1178.** M. Barmi, A. Nikoloski, Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, *Hydrometallurgy*, 129-130 (2012) 59-66 **ISSN: 0304-386X.**
- 1179.** Hrušanova, A., Mirkova, L., Dobrev, Ts., Electrochemical properties of Pb-Sb, Pb-Ca-Sn and Pb-CoO anodes in copper electrowinning, *Journal of Applied Electrochemistry*, 32 (5) (2002) 505-512 **ISSN: 1572-8838.**
- 1180.** Yi, G., Cai, F., Peng, W., He, T., Yang, X., Huang, Y., Yuan, Z., Wang, P., Experimental analysis of pinholes on electrolytic copper foil and their prevention, *Engineering Failure Analysis* 23 (2012) 76-81.
- 1181.** Lai, Y., Li, Y., Jiang, L., Xu, W., Lv, X., Li, J., Liu, Y., Electrochemical behaviors of co-deposited Pb/Pb-MnO₂ composite anode in sulfuric acid solution - Tafel and EIS investigations, *Journal of Electroanalytical Chemistry*, 671 (2012) 16-23.
- 1182.** Lai, Y.Q., Li, Y., Jiang, L.X., Lv, X.J., Li, J., Liu, Y.X. , Electrochemical performance of a Pb/Pb-MnO₂ composite anode in sulfuric acid solution containing Mn²⁺, *Hydrometallurgy* 115-116 (2012) 64-70 **ISSN: 0304-386X.**
- 1183.** M. Barmi, A. Nikoloski, Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, *Hydrometallurgy*, 129-130 (2012) 59-66 **ISSN: 0304-386X.**

A.Hrušanova, L. Mirkova, Ts. Dobrev, S. Vasilev, Influence of temperature and current density on oxygen overpotential and corrosion rate of Pb-Co₃O₄, Pb-Ca-Sn, and Pb-Sb anodes for copper electrowinning: Part I, Hydrometallurgy, 72 (3-4) (2004) 205-213 ISSN: 0304-386X.

- 1184.** Lai, Y.Q., Li, Y., Jiang, L.X., Lv, X.J., Li, J., Liu, Y.X. Electrochemical performance of a Pb/Pb-MnO₂ composite anode in sulfuric acid solution containing Mn²⁺, *Hydrometallurgy*, volume 115-116 (2012) 64 – 70.
- 1185.** Lai, Y., Li, Y., Jiang, L., Xu, W., Lv, X., Li, J., Liu, Y. , Electrochemical behaviors of co-deposited Pb/Pb-MnO₂ composite anode in sulfuric acid solution - Tafel and EIS investigations, *Journal of Electroanalytical Chemistry*, 671 (2012) 16-23.
- 1186.** M. Barmi, A. Nikoloski, Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, *Hydrometallurgy*, 129-130 (2012) 59-66.
- 1187.** Zhong, X.C., Hong, B., Li, Y.H., Jiang, L.X., Lai, Y.Q., The effects of Nd on lead anode for zinc electrowinning, *Advanced Materials Research*, 581-582 (1) (2012) 1115-1118 ISSN: 1022-6680.

Hrušanova A., Mirkova L., Dobrev T., Influence of additives on the corrosion rate and oxygen overpotential of Pb-Co₃O₄, Pb-Ca-Sn and Pb-Sb anodes for copper electrowinning: Part II. Hydrometallurgy, 72 (2004) 215-224 ISSN: 0304-386X.

- 1188.** Lai, Y.Q., Li, Y., Jiang, L.X., Lv, X.J., Li, J., Liu, Y.X. Electrochemical performance of a Pb/Pb-MnO₂ composite anode in sulfuric acid solution containing Mn²⁺, *Hydrometallurgy*, volume 115-116 (2012) 64 – 70.
- 1189.** Lai, Y., Li, Y., Jiang, L., Xu, W., Lv, X., Li, J., Liu, Y., Electrochemical behaviors of co-deposited Pb/Pb-MnO₂ composite anode in sulfuric acid solution - Tafel and EIS investigations, *Journal of Electroanalytical Chemistry*, 671 (2012) 16-23.
- 1190.** M. Barmi, A. Nikoloski, Electrodeposition of lead-cobalt composite coatings electrocatalytic for oxygen evolution and the properties of composite coated anodes for copper electrowinning, *Hydrometallurgy*, 129-130 (2012) 59-66.

Ts. Dobrev, C. Cachet, R. Wiart, Influence of Co²⁺ Ions on Cathode Behaviour during Zinc Electrowinning, *J. Appl. Electrochem.*, 28 (11) (1998) 1195-1203 ISSN: 1572-8838

- 1191.** Zhang, Q., Hua, Y., Kinetic investigation of zinc electrodeposition from sulfate electrolytes in the presence of impurities and ionic liquid additive [BMIM]HSO₄, *Materials Chemistry and Physics*, 134 (1) (2012) 333-339.
- 1192.** Monev, M., Dobrev, T., Nikolova, S., Stoyanchev, R., Rashkov, S., Inclusion of non-conductive particles in electrodeposited nickel coatings, *Surf & Coat Technol*, 34 (4) (1988) 493-499, ISSN: 0257-8972
- 1193.** Yoon, J.S., Yoo, Y.-E., Choi, D.-S., A study on the fabrication of rounded patterns by spin coating of photoresist on silicon substrate with

microstructures, Polymer Engineering and Science, 52 (3) (2012) 499-506,
ISSN: 0032-3888

Mirkova L, Monev M, Krastev I, Rashkov S, A rotating disc elektrode study of zinc elektrodeposition from alkaline zincate solutions, Trans Inst Met Finish, 73 (1995) 107, ISSN: 0020-2967

- 1194.** José Luis Ortiz-Aparicio, Yunny Meas, Gabriel Trejo, R. Ortega, T. W. Chapman, E. Chainet, Effects of organic additives on zinc electrodeposition from alkaline electrolytes, *J Appl Electrochem*, online first, ISSN: 0021-891X

Dobrev, Ts., Monev, M., Krastev, I., Zlatev, R., St. Rashkov, Method for accelerated testing of protection layers on metallic surfaces, Bulg. Patent, Reg No 99469, 1995

- 1195.** Fachikov, L., Ivanova, D., Surface treatment of zinc coatings by molybdate solutions, *Applied Surface Science*, 258 (24) (2012) 10160-10167, ISSN: 0169-4332

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, Trans Inst Met Finish, 74 (2) (1996) 45-50, ISSN: 0020-2967

- 1196.** Fachikov, L., Ivanova, D., Surface treatment of zinc coatings by molybdate solutions, *Applied Surface Science*, 258 (24) (2012) 10160-10167, ISSN: 0169-4332

Monev, M., Baumgärtner, M.E., Raub, C. J., Hydrogen content of nickel-layers, MO Metalloberfläche Beschichten von Metall und Kunststoff, 51 (5) (1997) 328-332, ISSN: 0026-0797

- 1197.** Pavlatou, E.A., Gyftou, P., Spanou, S., Effects of cis-2-butene-1,4-diol additive and pulse current imposition on production of ni nanocrystalline coatings, *Trans Inst Met Finish*, 90 (5) (2012) 267-273, ISSN: 0020-2967

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 Electrochem., 28 (10) (1998) 1107-1112, ISSN: 0021-891X

- 1198.** José Luis Ortiz-Aparicio, Yunny Meas, Gabriel Trejo, R. Ortega, T. W. Chapman, E. Chainet, Effects of organic additives on zinc electrodeposition from alkaline electrolytes, *Journal of Applied Electrochem.*, online first, ISSN: 0021-891X

- 1199.** Yun, M.-H., Yeon, J.-W., Ahn, H.-J., Song, K., Study on hydrogen transport into Ni, W, Cu and STS metal membranes using current transient technique, *Asian Journal of Chemistry*, 24 (7) (2012) 3285-3287, ISSN: 0970-7077

Monev, M., Krastev, I., Zielonka, A., In situ stress measurements during electrodeposition of Ag-Sb and Pt-Co alloy multilayer, Journal of Physics Condensed Matter, 11 (49) (1999) 10033-10040, ISSN: 0953-8984

- 1200.** Sensors and Actuators, B: Chemical 171-172 (2012) 155-164, ISSN: 0925-4005

Mirkova, L., Maurin, G., Monev, M., Tsvetkova, Chr., Hydrogen coevolution and permeation in nickel electroplating, J Appl Electrochem, 33 (1) (2003) 93-100, ISSN: 0021-891X

- 1201.** Yadav, D.P., Kaul, R., Sankar, P.R., Kak, A., Ganesh, P., Shiroman, R., Singh, R., (...), Shukla, S.K., A study on brazing of Glidcop® to OFE Cu for application in Photon Absorbers of Indus-2, J Physics: Conference Series 390 (1) (2012) art. no. 012019, ISSN: 172-6588
- 1202.** Güler, E.S., Karakaya, I., Konca, E., Effect of electroplating parameters on "HER" current density in Ni-MoS₂ composite plating, TMS Annual Meeting, 1 (2012) 57-64, 141st Annual Meeting and Exhibition, TMS 2012; Orlando, FL; 11 March 2012 through 15 March 2012; Code 89569, ISBN: 978-111829607-3
- 1203.** Bakhit, B., Akbari A., Nanocrystalline Ni-Co alloy coatings: electrodeposition using horizontal electrodes and corrosion resistance, Journal of Coatings Technology and Research, August 2012, ISSN: 1547-0091.

Tz. Boiadjieva, D. Kovacheva, K. Petrov, S. Hardcastle, A. Sklyarov, M. Monev, Electrodeposition, composition and structure of Zn-Cr alloys, J Appl Electrochem, 34 (3) (2004) 315, ISSN: 0021-891X

- 1204.** H. Itani, J. Duchoslav, M. Arndt, T. Steck, J. Gerdentisch, J. Faderl, K. Preis, W. Winkler, D. Stifter, X-ray photoelectron and scanning Auger electron spectroscopy study of electrodeposited ZnCr coatings on steel, Anal Bioanal Chem, 403 (3) (2012) 663-673, ISSN: 1618-2642

Tz. Boiadjieva, D. Kovacheva, K. Petrov, S. Hardcastle, M. Monev, Effect of anodic treatment on the composition and structure of electrodeposited Zn-Cr alloy coatings, Corrosion Sci., 46 (3) (2004) 681, ISSN: 0010-938X

- 1205.** H. Itani, J. Duchoslav, M. Arndt, T. Steck, J. Gerdentisch, J. Faderl, K. Preis, W. Winkler, D. Stifter, X-ray photoelectron and scanning Auger electron spectroscopy study of electrodeposited ZnCr coatings on steel, Anal Bioanal Chem, 403 (3) (2012) 663-673, ISSN: 1618-2642

Monev, M., Pfund, A., Zielonka, A., Elektrolytische Abscheidung von Gold/Nickel- und Gold/Kobalt-Legierungsschichten mit reduziertem Goldgehalt, Galvanotechnik, 99 (5) (2008) 1099, ISSN: 0016-4232

- 1206.** R. Freudenberger, Galvanotechnische abscheidung von Gold-Eine Übersicht [Electroplating separation of gold - A review], Galvanotechnik, 103 (2012) 1473, ISSN: 0016-4232
- 1207.** H. Willig, Galvanische Abscheidung von Gold-Eine Übersicht. Mechanische Eigenschaften und Verschleiß, Teil 7, Galvanotechnik, (12) (2012) 2594, ISSN: 0016-4232

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) 1967-1970, ISSN: 0370-1972

- 1208.** Komarova, N.S., Krivenko, A.G., Ryabenko, A.G., Naumkin, A.V., Stenina, E.V., Sviridova, L.N., Spectroscopic characterization of the electrochemical functionalization of single-walled carbon nanotubes in aqueous and organic media, Carbon 50 (3) (2012) 922-931, ISSN: 0008-6223

Tz. Boiadjieva, D. Kovacheva, L. Lyutov, M. Monev, Deposition of Zn-Cr alloy coatings from sulfate electrolyte: effect of polypropylene glycol 620 and glycine and combination thereof, J Appl Electrochem, 38 (2008) 1435-1443, ISSN: 002191X

- 1209.** H. Itani, J. Duchoslav, M. Arndt, T. Steck, J. Gerdentisch, J. Faderl, K. Preis, W. Winkler, D. Stifter, X-ray photoelectron and scanning Auger electron spectroscopy study of electrodeposited ZnCr coatings on steel, Anal Bioanal Chem, 403 (3) (2012) 663-673, ISSN: 1618-2642

Boiadjieva, T., Monev, M., Tomandl, A., Kronberger, H., Fafilek, G., Electrochemical studies on Zn deposition and dissolution in sulphate electrolyte, J Solid State Electrochem, 13 (5) (2009) 671-677, ISSN: 1432-8488

- 1210.** Pérez-Herranz, V., Carrillo-Abad, J., García-Gabaldón, M., Ortega, E., Electrochemical recovery of zinc present in the spent pickling baths coming from hot dip galvanizing processes, TMS Annual Meeting, 1 (2012) 149-156, 141st Annual Meeting and Exhibition, TMS 2012; Orlando, FL; 11 March 2012 through 15 March 2012; Code 89569, ISBN: 978-111829607-3

- 1211.** Yao, Y., Xu, S., Xia, Y., Yang, Y., Liu, J., Li, Z., Huang, W., Formation of hierarchical PtZn alloy films under highly cathodic polarization of pure Pt in a dilute ZnSO₄ solution and their electrocatalytic applications, Int J Electrochem Sci, 7 (4) (2012) 3265-3273, ISSN: 1452-3981

Tz. Boiadjieva, M. Monev, H. Kronberger, A. Tomandl, K. Petrov, P. Angerer, Effect of PEG 400 on Zn-Cr alloy electrodeposition, J Electrochem Soc, 157 (3) (2010) D159-D167, ISSN: 0013-4651

- 1212.** H. Itani, J. Duchoslav, M. Arndt, T. Steck, J. Gerdentisch, J. Faderl, K. Preis, W. Winkler, D. Stifter, X-ray photoelectron and scanning Auger electron spectroscopy study of electrodeposited ZnCr coatings on steel, *Anal Bioanal Chem*, 403 (3) (2012) 663-673, ISSN: 16182642

Y. Hubenova, , R. Rashkov, V. Buchvarov, S. Babanova, M. Mitov, Nanomodified NiFe- and NiFeP-carbon felt as anode electrocatalysts in yeast-biofuel cell, Journal of Materials Science, 46, (22), (2011), pp. 7074-7081, ISSN: 00222461

- 1213.** Sayed, E.T., Tsujiguchi, T., Nakagawa, N, Catalytic activity of baker's yeast in a mediatorless microbial fuel cell, *Bioelectrochemistry*, 86, (2012), pp. 97-101, ISSN: 15675394

- 1214.** Rawson, F.J., Gross, A.J., Garrett, D.J., Downard, A.J., Baronian, K.H.R., Mediated electrochemical detection of electron transfer from the outer surface of the cell wall of *Saccharomyces cerevisiae*, *Electrochemistry Communications*, 15, (1), (2012), pp. 85-87, ISSN: 13882481

Y. V. Hubenova, R. S. Rashkov, V. D. Buchvarov, M. H. Arnaudova, S. M. Babanova, M. Y. Mitov, Improvement of yeast-biofuel cell output by electrode modifications, Industrial and Engineering Chemistry Research, 50, (2), (2011), pp. 557-564, ISSN: 08885885

- 1215.** Sayed, E.T., Tsujiguchi, T., Nakagawa, N, Catalytic activity of baker's yeast in a mediatorless microbial fuel cell, *Bioelectrochemistry*, 86, (2012), pp. 97-101, ISSN: 15675394

- 1216.** Rawson, F.J., Gross, A.J., Garrett, D.J., Downard, A.J., Baronian, K.H.R., Mediated electrochemical detection of electron transfer from the outer surface of the cell wall of *Saccharomyces cerevisiae*, *Electrochemistry Communications*, 15, (1), (2012), pp. 85-87, ISSN: 13882481

R. Rashkov, M. Arnaudova, G. Avdeev, A. Zielonka, P. A. Jannakoudakis, E. Theodoridou, NiW/TiO_x composite layers as cathode material for hydrogen evolution reaction, International Journal of Hydrogen Energy, 34, (50),(2009), pp. 2095-2100, ISSN: 03603199

- 1217.** Beltowska-Lehman, E. , Indyka, P., Bigos, A., Kot, M., Tarkowski, L., Electrodeposition of nanocrystalline Ni-W coatings strengthened by ultrafine alumina particles, *Surface and Coatings Technology*, 211, (2012), pp. 62-66, ISSN: 02578972

- 1218.** Zheng, Z., Li, N., Wang, C.-Q., Li, D.-Y., Zhu, Y.-M., Wu, G., Ni-CeO₂ composite cathode material for hydrogen evolution reaction in alkaline electrolyte, *International Journal of Hydrogen Energy*, 37, (19), (2012), pp. 13921-13932, ISSN: 03603199

M. Mitov, R. Rashkov, N. Atanassov, A. Zielonka, 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), pp. 3367-3372, ISSN: 00222461

- 1219.** Chinnappan, A., Kim, H., Baskar, C., Hwang, I.T., Hydrogen generation from the hydrolysis of sodium borohydride with new pyridinium dicationic salts containing transition metal complexes, International Journal of Hydrogen Energy, 37, (13), (2012), pp. 10240-10248, ISSN: 03603199
- 1220.** Rakap, M., Özkar, S., Hydroxyapatite-supported cobalt(0) nanoclusters as efficient and cost-effective catalyst for hydrogen generation from the hydrolysis of both sodium borohydride and ammonia-borane, Catalysis Today, 183, (1), (2012), pp. 17-25, ISSN: 09205861

N. Boshkov, K. Petrov, S. Vitkova, G. Raichevsky, “Galvanic alloys Zn-Mn - Composition of the corrosion products and their protective ability in sulfate containing medium”, Surface and Coatings Technology, 194, (2-3), (2005), pp. 276-282. ISSN: 0257-8972.

- 1221.** W. Rubin, E.M. De Oliveira, I.A. Carlos, “Study of the influence of a sorbitol complex on Zn-Mn electrodeposition and on the morphology, chemical composition, and structure of the deposits”, Journal of Applied Electrochemistry, 42, (1) (2012), pp. 11-20 ISSN: 0021-891X
- 1222.** N. Thomas, “Mechanochemical synthesis of layered hydroxy salts”, Materials Research Bulletin, 47, (2012), pp. 3568 – 3572, ISSN: 0025-5408

N. Boshkov, K. Petrov, G. Raichevsky, “Corrosion behavior and protective ability of multilayer Galvanic coatings of Zn and Zn-Mn alloys in sulfate containing medium”, Surface and Coatings Technology, 200, (20-21), (2006), pp. 5995-6001 ISSN: 0257-8972.

- 1223.** W. Rubin, E.M. De Oliveira, I.A. Carlos, “Study of the influence of a sorbitol complex on Zn-Mn electrodeposition and on the morphology, chemical composition, and structure of the deposits”, Journal of Applied Electrochemistry, 42, (1) (2012), pp. 11-20 ISSN: 0021-891X

N. Boshkov, K. Petrov, D. Kovacheva, S. Vitkova, S. Nemska, “Influence of the alloying component on the protective ability of some zinc galvanic coatings”, Electrochimica Acta, 51, (1), (2005), pp. 77-84 ISSN: 0013-4686

- 1224.** W. Rubin, E.M. De Oliveira, I.A. Carlos, “Study of the influence of a sorbitol complex on Zn-Mn electrodeposition and on the morphology, chemical composition, and structure of the deposits”, Journal of Applied Electrochemistry, 42, (1), (2012), pp. 11-20 ISSN: 0021-891X
- 1225.** X.-L. Shang, B. Zhang, E.-H. Han, W. Ke, “The effect of 0.4 wt.% Mn addition on the localized corrosion behaviour of zinc in a long-term

experiment”, *Electrochimica Acta*, 65, (2012), pp. 294-304. ISSN: 0013-4686

1226. P.S.D. Brito, S. Patrício, L.F. Rodrigues, C.A.C. Sequeira, “Electrodeposition of Zn-Mn alloys from recycling Zn-MnO₂ batteries solutions”, *Surface and Coatings Technology*, 206, (13), (2012), pp. 3036-3047, ISSN: 0257-8972
1227. M. Heydari Gharahcheshmeh, M. Heydarzadeh Sohi, “Pulse electrodeposition of Zn-Co alloy coatings obtained from an alkaline bath”, *Materials Chemistry and Physics*, 134, (2012), pp. 1146– 1152, ISSN: 0254-0584
1228. X.-L. Shang, B. Zhang, E.-H. Han, W. Ke, “The effect of 0.4 wt.% Mn addition on the localized corrosion behaviour of zinc in a long-term experiment”, *Electrochimica Acta*, 65, (2012), pp. 294-304, ISSN: 0013-4686

N. Boshkov, “Galvanic Zn-Mn alloys - electrodeposition, phase composition, corrosion behaviour and protective ability”, *Surface and Coatings Technology*, 172, (2-3), (2003), pp. 217-226 ISSN: 0257-8972.

1229. W. Rubin, E.M. De Oliveira, I.A. Carlos, “Study of the influence of a boric-sorbitol complex on Zn-Mn electrodeposition and on the morphology, chemical composition, and structure of the deposits”, *Journal of Applied Electrochemistry*, 42, (1), (2012), pp. 11-20 ISSN: 0021-891X
1230. X.-L. Shang, B. Zhang, E.-H. Han, W. Ke, “The effect of 0.4 wt.% Mn addition on the localized corrosion behaviour of zinc in a long-term experiment”, *Electrochimica Acta*, 65, (2012), pp. 294-304. ISSN: 0013-4686
1231. P.S.D. Brito, S. Patrício, L.F. Rodrigues, C.A.C. Sequeira, “Electrodeposition of Zn-Mn alloys from recycling Zn-MnO₂ batteries solutions”, *Surface and Coatings Technology*, 206, (13), (2012), pp. 3036-3047, ISSN: 0257-8972
1232. X.-L. Shang, B.Zhang, E.-H. Han, W.Ke, “The effect of 0.4 wt.% Mn addition on the localized corrosion behaviour of zinc in a long-term experiment”, *Electrochimica Acta*, 65, (2012), pp. 294-304, ISSN: 0013-4686
1233. S. Ranganatha, T.V. Venkatesha, K. Vathsala, M.K. Punith Kumar, “Electrochemical studies on Zn/nano-CeO₂ electrodeposited composite coatings”, *Surface and Coatings Technology*, 208, (2012), pp. 64-72, ISSN: 0257-8972

N. Boshkov, N. Tsvetkova, P. Petrov, D. Koleva, K. Petrov, G. Avdeev, Ch. Tsvetanov, G. Raichevsky, R. Raicheff, “Corrosion behavior and protective ability of Zn and Zn-Co electrodeposits with embedded polymeric nanoparticles”, *Applied Surface Science*, 254, (17), (2008), pp. 5618–5625. ISSN: 0169-4332

1234. A. Olad, M. Barati, S. Behboudi, “Preparation of PANI/epoxy/Zn nanocomposites and epoxy resin as additives and investigation of its corrosion behavior on iron”, PROGRESS IN ORGANIC COATINGS, 74, (1), (2012), pp. 221 – 227, ISSN: 0300-9440

1235. A. Gomes, I. Almeida, T. Frade, A. C. Tavares, “Stability of Zn–Ni–TiO₂ and Zn–TiO₂ nanocompositecoatings in near-neutral sulphate solutions”, Journal of Nanoparticle Research, 14, (2), (2012), article No. 692, ISSN: 1388-0764

N. Boshkov, K. Petrov, S. Vitkova, S. Nemska and G. Raichevsky, “Composition of the corrosion products of galvanic coatings Zn-Co and their influence on the protective ability”, Surface and Coatings Technology, 157, (2-3), (2002), pp. 171 – 178, ISSN: 0257-8972

1236. V.E. Padilla Perez, A. Alfantazi, “Effects of Oxygen and Sulfate Concentrations on the Corrosion Behavior of Zinc in NaCl Solutions”, Corrosion, 68, (3), (2012), pp. 035005-1 - 35005-11, ISSN: 0010-9312

1237. M. Heydari Gharahcheshmeh, M. Heydarzadeh Sohi, “Pulse electrodeposition of Zn-Co alloy coatings obtained from an alkaline bath”, Materials Chemistry and Physics, 134, (2012), pp. 1146– 1152, ISSN: 0254-0584

N. Boshkov, K. Petrov, G. Raichevsky, “Corrosion behavior and protective ability of multilayer Galvanic coatings of Zn and Zn-Mn alloys in sulfate containing medium”, SURFACE AND COATINGS TECHNOLOGY, 200, (20-21), (2006), pp. 5995-6001 ISSN: 0257-8972

1238. J.-L. Chen, J.-H. Liu, S.-M Li, M.Yu, “Corrosion resistance of Zn-Ni/Ni and Ni/Zn-Ni compositionally modulated multilayer coating”, Materials and Corrosion, 63, (7), (2012), pp. 607-613, ISSN: 0947-5117

D.A. Koleva, J. Hu, A.L.A. Fraaij, N. Boshkov, “Influence of chloride ions on plain and reinforced mortars, investigated by combined microstructure and electrochemical approaches”, Paper 315, Eurocorr 2005, 4-8 September 2005, Lisbon, Portugal - 50th anniversary of the EFC, EFC Event No. 273.

1239. A. Alhozaimy, R. R. Hussain, R. Al-Zaid, A. Al-Negheimish, “Coupled effect of ambient high relative humidity and varying temperature marine environment on corrosion of reinforced concrete”, Construction and Building Materials, 28, (1), (2012), pp. 670–679 ISSN: 0950-0618

D.A. Koleva, J. Hu, A.L.A. Fraaij, P. Stroeven, N. Boshkov, J.H.W. de Wit, “Quantitative characterisation of steel/cement paste interface microstructure and corrosion phenomena in mortars suffering from chloride attack”, Corrosion Science, 48, (12), (2006), pp. 4001-4019, ISSN: 0010-938X.

- 1240.** J.M. Miranda, L. Narváez, G. García, “Characterisation of corrosion products formed on steel rebars”, Canadian Metallurgical Quarterly, 51, (2), (2012), pp. 228-234, ISSN 0008-4433
- 1241.** A. Alhozaimy, R. R. Hussain, R. Al-Zaid, A. Al-Negheimish, “Coupled effect of ambient high relative humidity and varying temperature marine environment on corrosion of reinforced concrete”, Construction and Building Materials, 28, (1), (2012), pp. 670–679 ISSN: 0950-0618
- 1242.** J.-J. Shi, W. Sun, “Electrochemical and analytical characterization of three corrosion inhibitors of steel in simulated concrete pore solutions”, International Journal of Minerals, Metallurgy and Materials, 19, (1), (2012), pp. 38-47 ISSN: 1674-4799
- 1243.** W.A.-Chaparro, A. E. Delgado-Tobón, J. H. Bautista-Ruiz, “Application of Cathodic Protection at the Laboratory in AAS and OPC Mortar Under a Marine Environment”, Ingeniería y Universidad, 16, (1), (2012), 7 pp. 7-94, ISSN 0123-2126
- 1244.** W. Aperador-Chaparro, A. E. Delgado-Tobón, J. H. Bautista-Ruiz, Application of Cathodic Protection at the Laboratory in AAS and OPC Mortar Under a Marine Environment”, Ingeniería y Universidad, 16 (1), (2012), pp. 77 – 94. ISSN 0123-2126:

Mirkova, L., Petkova, N., Popova, I., Rashkov, St., The effect of some surface active additives upon the quality of cathodic copper deposits during the electro-refining process, Hydrometallurgy, 36 (2), (1994) pp. 201-213, ISSN: 0304-386X

- 1245.** Stelter, M., Bombach, H., Chemisches und Elektrochemisches Verhalten Verschiedener Additive bei der Kupferraftinationselektrolyse | [Chemical and electrochemical behavior of different additives in copper electrorefining], World of Metallurgy - ERZMETALL, 65 (2) (2012) pp. 94-100, ISSN: 1613-2394

Hrušanova, A., Mirkova, L., Dobrev, Ts., Electrochemical properties of Pb-Sb, Pb-Ca-Sn and Pb-Co₃O₄ anodes in copper electrowinning, J Appl Electrochem, 32 (5), (2002) pp. 505-512, ISSN: 0021-891X

- 1246.** Alamdari, E.K., Darvishi, D., Samadi Khoshkhoo, M., Javid, F.A., Marashi, S.P.H., On the way to develop co-containing lead anodes for zinc electrowinning, Hydrometallurgy, 119 (2012) pp. 77-86, ISSN: 0304-386X

Gabrielli, C., Maurin, G., Mirkova, L., Perrot, H., Transfer function analysis of hydrogen permeation through a metallic membrane in a Devanathan cell. Part II: Experimental investigation on iron membrane, J Electroanal Chem, 590 (1), (2006) pp. 15-25, ISSN: 0368-1874

- 1247.** Kim, S.J., Kim, K.Y., Electrochemical hydrogen permeation measurement through high-strength steel under uniaxial tensile stress in plastic range, Scripta Materialia, 66 (12) (2012) pp. 1069-1072, ISSN: 1359-6462

Mirkova, L., Maurin, G., Krastev, I., Tsvetkova, C. J Appl Electrochem, 31 (6), (2001) pp. 647-654. ISSN: 0021-891X

- 1248.** Yun, M.-H., Yeon, J.-W., Ahn, H.-J., Song, K., Study on hydrogen transport into Ni, W, Cu and STS metal membranes using current transient technique, Asian Journal of Chemistry, 24 (7), (2012), pp. 3285-3287. ISSN: 0970-7077

D. Stoychev, I. Vitanova, S. Rashkov, T. Vitanov, Adsorption of Substances Acting as Brighteners in Electrolytic Deposition of Copper, Surf. Technology, 7 (1978), pp. 427-423, ISSN: 0257-8972

- 1249.** A. Mendez, Y. Meas, R. Ortega-Borges, G. Trejo, Thermodynamic Study of PEG (MW 20,000) Adsorption in the Presence of Cl-Anions onto a Polycrystalline Gold Electrode, Journal of the Electrochemical Society, 159 (3), F48-F55 (2012), ISSN: 0013-4651.

I. Tomov, D. Stoychev, I. Vitanova, Recovery and recrystallization of electrodeposited bright copper coatings at room temperature. II. X- ray Investigation of Primary Recrystallization, J. Appl. Electrochem., 15 (1985) 887-894. ISSN: 0021-891X (print version).

- 1250.** J. Murray, S. Smith, G. Schiavone, J.G. Terry, A.R. Mount, A.J. Walton, Correlation of optical and electrical test structures for characterization of copper self- annealing, IEE International Conference on Microelectronic Test Struktures, Art. No 6190635, (2012), pp 152-158, ISSN: 1071-9032.

D. Stoychev, I. Tomov, I. Vitanova, Recovery and recrystallization of electrodeposited bright copper coatings at room temperature. I: Microhardness in relation to coating structure J. Appl. Electrochemistry, 15 (1985) 879-886, ISSN: 0021-891X (print version).

- 1251.** J. Murray, S. Smith, G. Schiavone, J.G. Terry, A.R. Mount, A.J. Walton, Correlation of optical and electrical test structures for characterization of copper self- annealing, IEE International Conference on Microelectronic Test Struktures, Art. No 6190635, (2012), pp 152-158, ISSN: 1071-9032.

E. Michailova, I. Vitanova, D. Stoychev, A. Milchev, Initial stages of copper electrodeposition in the presence of organic additives, Electrochim. Acta, 38 (1993), pp. 2455-2458, ISSN: 0013-4686.

- 1252.** Q. Zhang, Y. Hua, Influence of [BMIM]HSO₄ on electrodeposition and corrosion behavior of Zn coatings from acidic sulfate bath, Surface and Interface Analysis, 44(9), (2012), pp. 1254-1260, ISSN: 0142-221.

- 1253.** Y. Zheng, A.P. Jadhav, G. Song, S.W. Kim, Y.S. Kang, Cu and Cu₂O films with semi-spherical particles grown by electrochemical deposition, *Thin Solid Films*, 524, (2012), pp. 50-56, ISSN: 00406090.

Gurkovsky S., Stoychev D., Surface modification of electrochemical copper coatings with a CW CO₂ laser, Journal of Materials Science Letters, 13 (13), (1994), pp. 985-988, ISSN: 0261-8028.

- 1254.** Momcilovic, M., Limpouch, J., Kmetik, V., Redaelli, R., Savovic, J., Batani, D., Stasic, J., Panjan, Trtica, M., Surface modification of copper using high intensity, 10¹⁵ W/cm², femtosecond laser in vacuum, *Applied Surface Science* 258 (22) (2012) pp. 8908-8914, ISSN: 01694332.

E. Michailova, M. Peykova, D. Stoychev and A. Milchev, On the Role of Surface Active Agents in the Nucleation Step of Metal Electrodeposition on a Foreign Substrate, J.Electroanalyst.Chem., 336 (1994) 195-202. ISSN: 0022-0728.

- 1255.** A. Mendez, Y. Meas, R. Ortega-Borges, G. Trejo, Thermodynamic Study of PEG (MW 20,000) adsorption in the presence of Cl⁻ anions onto a polycrystalline gold electrode, *Journal of the Electrochemical Society*, 159 (3), F48-F55 (2012), ISSN: 0013-4651.

- 1256.** Q. Zhang, Y. Hua, Influence of [BMIM]HSO₄ on electrodeposition and corrosion behavior of Zn coatings from acidic sulfate bath, *Surface and Interface Analysis*, 44(9), (2012), pp. 1254-1260, ISSN: 0142-221.

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

- 1257.** J.Aromaa, A.Kekki, A.Stefanova, O.Forsen, Copper nucleation and growth patterns on stainless steel cathode blanks in copper electrorefining, *J. Solid State Electrochemistry*, 16(11), (2012), pp. 3529-3537, ISSN: 1432-8488.

- 1258.** J.Y. Zheng, A.P. Jadhav, G. Song, S.W. Kim, Y.S. Kang, Cu and Cu₂O films with semi-spherical particles grown by electrochemical deposition, *Thin Solid Films*, 524, (2012), pp. 50-56, ISSN: 00406090.

- 1259.** R.M. Guascito, C. Malitesta, L. Sabatini, Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl⁻ complexing agent, *Mater. Chem. Phys.*, 131(3), (2012), pp. 719-727, ISSN: 0254-0584.

D. Stoychev, Chr. Tsvetanov, Behaviour of Poly (Ethylen glycol) during electrodeposition of bright copper coatings in sulphuric acid electrolytes, *J. Appl. Electrochemistry*, 26 (1996) 741. ISSN: 0021-891X (print version).

- 1260.** X. Gan, K. Zhou, W. Hu, D. Zhang, Role of additives in electroless copper plating using hypophosphite as reducing agent, *Surf. Coat. Technology*, 206(15), (2012), pp. 3405-3409, ISSN: 0257-8972.
- 1261.** A. Survila, Z. Mockus, S. Kamapeckaite, D. Brazinskiene, R. Juskenas, Surfactant effects in Cu-Sn alloy deposition, *J. Electrochem. Soc.*, 159 (5), (2012), D296-D302, ISSN: 0013-4651.
- 1262.** N.T.M. Hai, K.W. Kramer, A. Fluegel, M. Arnold, D. Mayer, P. Broekmann, Beyond interfacial anion/cation pairing: The role of Cu(I) coordination chemistry in additive-controlled copper plating, *Electrochim. Acta*, 83, (2012), pp. 367-375, ISSN: 0013-4686.
- 1263.** Wafula, F., Yin, L., Borgesen, P., Andala, D., Dimitrov, N., Influence of poly(ethylene glycol) degradation on voiding sporadically occurring in solder joints with electroplated Cu, *Journal of Electronic Materials* 41 (7), (2012), pp. 1898-1906, ISSN: 0361-5235.

D. Stoychev, On the role of Poly (Ethylene Glycol) in deposition of galvanic copper coatings, (Review), Trans. Tnst. Metal Finishing (England), 76 (1998) 73-80. Online ISSN: 1745-9192.

- 1264.** A. Mendez, Y. Meas, R. Ortega-Borges, G. Trejo, Thermodynamic Study of PEG (MW 20,000) Adsorption in the Presence of Cl-Anions onto a Polycrystalline Gold Electrode, *Journal of the Electrochemical Society*, 159 (3), F48-F55 (2012), ISSN: 0013-4651.
- 1265.** A. Survila, Z. Mockus, S. Kamapeckaite, D. Brazinskiene, R. Juskenas, Surfactant effects in Cu-Sn alloy deposition, *J. Electrochem. Soc.*, 159 (5), (2012), D296-D302, ISSN: 0013-4651.
- 1266.** Willing, H., Freudenberger, R., Galvanische abscheidung von gold - Teil 6: Eine übersicht spezielle verfahren und anwendungen (2), *Electrodeposition of gold - Part 6: Specialised processes and applications (2)*, *Galvanotechnik* 103 (11), (2012), pp. 2348-2355, ISSN: 00164232.

P. Stefanov, D. Stoychev, M. Stoycheva, A.R. Gonzales-Elipe, T. Marinova, XPS, SEM and EM Characterisation of Stainless Steel 316 L Surfaces after Electrochemical Etching and Oxidizing, *Surf. Interface Analysis*, 28 (1999), pp. 106-110, ISSN: 0142-2421.

- 1267.** D. Aradilla, F. Estrany, E. Armelin, C. Aleman, Ultraporous poly(3,4-ethylenedioxythiophene) for nanometric electrochemical supercapacitor, *Thin Solid Films*, 520(13), (2012), pp.4402-4409, ISSN: 00406090.
- 1268.** Y.-Y. Su, C.-C. Shih, L.C. Chen, C.-M. Shih, S.J. Lin, Characterization of Oxide Structures on Stainless Steel Sternal Wires by Electrochemical

Reduction, Applied Surface Science, 258 (7), (2012), pp. 2869-2875, ISSN: 0169-4332.

P. Stefanov, D. Stoychev, I. Valov, A. Kakanakova-Georgieva, Ts. Marinova, Electrochemical Deposition of Thin Zirconia Films on Stainless Steel 316 L, Mater.Chem.Phys., 65 (2000) 222- 225. ISSN: 0254-0584.

- 1269.** D. Fang, Y. Yu , Z. Luo, S. Liu, K. Huang, W. Xu, Fabrication parameter-dependent morphologies of self-organized ZrO₂ nanotubes during anodization, J. Solid State Electrochemistry, 16 (3) (2012), pp. 1219-1228, ISSN: 1433-0768.

P. Stefanov, D. Stoychev, M. Stoycheva, Ts. Marinova, Chromium Oxide Eilms Chemically Formed on Stainless Steel 316L, Mater.Chem.Phys., 65, (2000), pp. 212-215, ISSN: 0254-0584.

- 1270.** B. Frederiksson, S. Malmgren, S. Gustafsson, M. Gogo, K. Edstrom, Full depth profile of passive films on 316L stainless steel based on high resolution HAXPES in combination with ARXPS, Appl. Surf. Sci., 258 (15), (2012), pp. 5790-5797, ISSN: 0169-4332.

- 1271.** J.S. Qian, C. Chen, S. Li, S. Zhang, Y. Wang, Effect of element S on corrosion behavior of nickel-base alloy G3 in high temperature and high pressure environments containing H₂S/CO₂, Chinese Journal of Nonferrous Metals, 22(8), (2012), pp. 2214-2222, ISSN: 1003-6326.

G. Kokkinidis, A. Papoutsis, D. Stoychev, A. Milchev, Electroless deposition of Pt on Ti - catalitic activity for the hydrogen evolution reaction, J. Electroanalyt.Chem., 486 (2000), pp. 48-55, ISSN: 1572-6657

- 1272.** S. Mentus, A. Abu Rabi, D. Jasin, Oxygen reduction on potentiodynamically formed Pd/TiO₂ composite electrodes, Electrochim. Acta, 69, (2012), pp. 174-180, ISSN: 0113-4686.

- 1273.** K.V. Kuznetsov, K.V. Kavrishina, B.I. Podlovchenko, Formation and electrocatalytic properties of Pd deposits on Mo obtained by galvanic displacement, Russian J. Electrochemistry, 48 (4), (2012), pp.467-473, ISSN: 1023-1935.

- 1274.** K.V. Kuznetsov, K.V. Kavrishina, B.I. Podlovchenko, Электрохимия, Формирование и електрокаталитические свойства гальванически осажденных Pd и Mo, 48(4), (2012), pp. 491-497.

- 1275.** M. Zhang, Z. Yan, J. Xie, Core/shell Ni@Pd nanoparticles supported on MWCNTs at improved electrocatalytic performance for alcohol oxidation in alkaline media, Electrochim. Acta, 77 (2012), pp. 237-243, ISSN: 0013-4686.

- 1276.** A.W. Maijenburg, A. George, D. Samal. M. Nijland. R. Besseling, B. Cuiper. J.E. Kleibenker, J.E. Elshod, Electrodeposition of micropatterned Ni|Pt multilayers and segmented Ni|Pt|Ni nanowires, *Electrochim. Acta*, 81 (2012), pp. 123-128, ISSN: 0013-4686.

J. Ikonomov, D. Stoychev, Ts. Marinova, XPS and SEM characterization of electrodeposited transition metals on zirconia, *Appl.Surf.Sci.*, 161 (2000), pp. 94-104, ISSN: 0169-4332

- 1277.** G. Silveira, A.D. Morais, P.C.M. Villis, C.M. Moronze, Y. Gushikem, A.M.S. Lucho, F.L.Pissetti, Electrooxidation of nitrite on a silica–cerium mixed oxide carbon paste electrode, *J. Colloid and Surface Science*, 369(1), (2012), pp. 302-308, ISSN: 0021-9797.

D. Stoychev, A. Papoutsis, A. Kaledopoulou, G. Kokkinidis, A. Milchev, Electrodeposition of Platinum on Metallic and Non-metallic Substrates - Selection of Experimental Conditions, *Mater. Chem. Phys.*, 72 (2001), pp. 360, ISSN: 0254-0584.

- 1278.** G. Orr, M. Roth, Safe and consistent method of spot-welding platinum thermocouple wires and foils for high temperature measurements, *Review of Scientific Instruments*, 83 (8), (2012), art. № 084901, ISSN: 0034-6748.

M. Arbib, B. Zhang, V. Lazarov, D. Stoychev, A. Milchev, C. Buess-Herman, Electrochemical nucleation and growth of rhodium on gold substrates, *J. Electroanal. Chem.*, 510 (2001), pp. 67, ISSN: 0022-0728.

- 1279.** M. Rezaei, S.H. Tabajan, D.F. Haghshenas, Nucleation and growth of Pd nanoparticles during electrocrystallization on pencil graphite, *Electrochim. Acta*, 59 (2012), pp. 360-366, ISSN: 0013-4686.

- 1280.** E. Gaufico-Garcia, M. Romero-Ramo, M.T. Ramirez-Silva, M. Palomar-Pardave, Overpotential Nucleation and Growth of Copper onto Polycrystalline and Single Crystal Gold Electrodes, *International Journal of Electrochemical Science*, 7 (4) (2012), pp. 3102-3114, ISSN: 1452-3981.

- 1281.** M. Rezaei, S.H. Tabajan, D.F. Haghshenas, A kinetic description of Pd electrodeposition under mixed control of charge transfer and diffusion, *J. Electroanalyt Chem.*, 687 (2012), pp. 95-101, ISSN: 0022-0728.

- 1282.** O. Alsheri, M. Yavuz, T. Tsui, Manifestation of external size reduction effects on the yield point of nanocrystalline rhodium using nanopillars approach, *Acta Materialia*, 61 (1) (2012), pp. 40-50, ISSN: 1359-6454.

G. Kokkinidis, D. Stoychev, V. Lazarov, A. Papoutsis, A. Milchev, Electroless deposition of Pt on Ti. Part II. Catalitic activity for oxygen reduction, *J. Electroanal. Chem.*, 511 (2001) 20-30. ISSN: 1572-6657.

1283. K. V. Kuznetsov, K. V. Kavrishina, B. I. Podlovchenko, Formation and electrocatalytic properties of Pd deposits on Mo obtained by galvanic displacement, Russian J. Electrochemistry, 48 (4), (2012), pp.467-473, ISSN: 1023-1935.

1284. К.В. Кузнецов, К.В. Кавришина, Б.И. Подловченко, Электрохимия, Формирование и электрокаталитические свойства гальванически осажденных Pd и Mo, 48(4), 491-497 (2012)

1285. A.W. Maijenbur, A. George, D. Smal, J.E. Elshov, Electrodeposition of micropatterned Ni|Pt multilayers and segmented Ni|Pt|Ni nanowires, Electrochim.Acta, 81, (2012), pp.123-128, ISSN: 0013-4686.

1286. M. Zhang, Z. Yan, J. Xie, Core/shell Ni@Pd nanoparticles supported on MWCNTs at improved electrocatalytic performance for alcohol oxidation in alkaline media, Electrochim. Acta, 77 (2012), pp. 237-243, ISSN: 0013-4686.

D. Stoychev, P. Stefanov, D. Nikolova, I. Valov, Ts. Marinova, Chemical Composition and Corrosion Resistance of Passive Chromate Films Formed on Stainless Steeles 316L and 1.4301, Mater.Chem.Phys., 73 (2002), pp. 252-255, ISSN: 0254-0584.

1287. D. Ram, Effect of L. Ascorbic acid and oxalic acid on the growth of lemna minor and metal uptake of hexavalent chromium, Ecology, Environmental and Conservation, 18(2), (2012), pp. 327-330, ISSN: 0971-765X.

P. Stefanov, G. Atanasova, D. Stoychev, Ts. Marinova, Electrochemical deposition of CeO₂ on ZrO₂ and Al₂O₃ thin films formed on stainless steel, Surface and Coatings Technology, 180-181, (2004), pp. 446-449, ISSN: 0257-8972.

1288. P. Bocchetta, M. Santamaria, F. Di Quatro, Electrodeposition of supported gadolinium-doped ceria solid solution nanowires, J.Electrochem.Soc., 159 (5), (2012), E108-E114, ISSN: 0013-4651.

I. Avramova, P. Stefanov, D. Nicolova et al, Characterization of nanocomposite CeO₂-Al₂O₃ coatings electrodepo sited on stainless steel, Composites Science and Technology, 65 (2005) 1663-1667, ISSN: 0266-3538.

1289. Kaynak, C. Baristiran, Lukosius, M., Tillack, B., Ce_xAl_yO_z/TiN stack analysis for Metal-Insulator-Metal applications: Effect of annealing and the metal electrode deposition method, Thin solid films, 520 (14), (2012), pp. 4518-4522, ISSN: 0040-6090.

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

1290. Chen, Zhi, Hao, Limei, Chen, Changle, A fast electrodeposition method for fabrication of lanthanum superhydrophobic surface with hierarchical micro-

nanostructures, Colloids and surfaces A: physicochemical and engineering aspects, 401, (2012), pp. 1-7, ISSN: 0927-7757.

B. Grbic, N. Radic, B. Markovic, P. Stefanov, D. Stoychev, T. Marinova, Influence of manganese oxide on the activity of Pt/Al₂O₃ catalysts for CO and n-hexane oxidation, Appl.Catalysis B:Environmental, 64, (2006), 51-56, ISSN: 0926-3373.

- 1291.** H.-D.Kim, H.J.Park, T.-W.Kim, K.-E.Jeomg, H.-J.Chae, S.J.Jeong,C.-H.Lee,C.-U.Kim., Hydrogen production through the aqueous phase reforming of ethylene glycol over supported Pt-based bimetallic catalysts, Internat. Journal oh Hydrogen Energy, 37(10), (2012), pp.8310-8317 (2012), ISSN: 03603199
- 1292.** S.Todorova, A.Naydenov, H.Kolev, J.P.Holgado, G.Ivanov, A.Caballero, Mechanism of complete n- hexane oxidation on silica supported cobalt and manganese catalysts, Applied Catalysis A:General, 413-414, (2012), pp. 43-51, ISSN: 0926-860X
- 1293.** D.Salari, A.Niae, F.Aghazadeh, S.A.Hosseini, F.Seyednajah, Catalytic remediation of 2-propanol on Pt-Mn/ γ -Al₂O₃ bimetallic catalyst during catalytic combustion—Experimental study and response surface methodology (RSM) modeling, Journal of Environmental Science and Health – Part A Toxic/Hazardous Substances and Environmental Engineering, 47(3), (2012), pp. 351-357, ISSN: 1093-45-29
- 1294.** F. Shi, F. Wang, H. Dai, J. Dai, J. Deng, Y. Liu, G. Bay, K. Ji, C. T. Au, Applied Catalysis A: General, 433-444 (2012) 206-213XXX K,Ji, H.Dai, J.Deng, X. Li, Three-dimensionally ordered macroporous Eu_{0.6}Sr0.4FeO₃ supported cobalt oxides: Highly active nanocatalysts for the combustion of toluene, App.Catalysis B:Environmental, 129 (2013)539-548. ISSN: 0926-3373

T. Marinova, A. Tsanev, D.Stoychev, Characterisation of Mixed Yttria and Zirconia Thin Films, Mater. Sci. Eng. B:130 (1-3), (2006), pp. 1-4, ISSN: 0927-796X.

- 1295.** Z.Sompolos, P.Yianoulis, Development of very thin YSZ films deposited on substrates of varying porosity by e- beam evaporation, Surface Engineering, 28(10) (2012), pp. 747-753, ISSN: 0267-0844.

I.Avramova, D. Stoychev and Ts. Marinova, Characterization of thin CeO₂-ZrO₂-Y₂O₃ films electrochemical deposited on stainless steel, Appl.Surf.Sci., 253, (2006) 1365-1370. ISSN: 0169-4332.

- 1296.** Aghazadeh, M., Malek Barmi, A.-A., Mohammad Shiri, H., Sedaghat, S., Cathodic electrodeposition of Y(OH)₃ nanostructures from chloride bath. Part II : Effect of the bath temperature on the crystal structure composition and morphology,Ceramics International, 39 (2), (2013), pp. 1045-1055, ISSN: 0272-8842

- 1297.** M.Aghazadeh, T.Yousefi, M.Ghaemi, Low -temperarure electrochemical synthesis and characterization of untrafine Y(OH)_3 and Y_2O_3 nanoparticles, J.Rare Earths, 30(3), (2012), pp. 236-240, ISSN: 1002-07721
- 1298.** M.Aghazadeh, Catodic electrodeposition of ZrO_2 . Impact current density on the crystal structure, composition and morphology, JES, 159(3), E53-E58 (2012),
- 1299.** M.Aghazadeh, A.A.Barmi, M.Hosseinifard, Nanoparticulates Zr(OH)_4 and ZrO_2 prepared by low temperature cathodic electrodeposition, Materials Letters, 73 (2012) 28-31, ISSN: 2093-6788
- 1300.** Z.Sampolos, P.Yianulis, Development of very thin YSZ films deposited on substrates of varying porosity by e-beam evaporation Surface Engineering, 28(10), (2012), pp. 747-753, ISSN: 2153-1285.

T. Novakovic, N. Radic, B. Grbic, V. Dondur, M. Mitric, D. Randjel, D. Stoychev, P.Stefanov, Applied Surface Science, 255, (2008), pp. 3049-3055, ISSN: 01694332.

- 1301.** L. Boudriche, R. Calvet, B. Hamdi, H. Balard, Surface properties evolution of attapulgite by IGC analysis as a function of thermal treatment, Colloids and Surfaces A: Physiscal Chemistry and Engineering, 399, (2012), 1-10, ISSN: 09277765

D. Nikolova, E. Stoyanova, D. Stoychev, I. Avramova, P. Stefanov, Protective effet in sulphuric acide media of alumina and ceria oxide layers electrodeposited on stainless, steel, Surf.Coat.Technol., 202 (2008) 1876-1888. ISSN: 0257-8972.

- 1302.** A. Samide, B. Tutunaru, Study of the Corrosion Resistance of Ni/CeO(2) Composite Coatings Electrodeposited on Carbon Steel in Hydrochloric Acid, Chemical and Biochemical Engineering Quarterly, 25 (2011) 203-208. ISSN: 0352-9568.
- 1303.** Y.P.Wang, X.-N.Zhao,X.-Y/Lu, Y. En, Wuli Xuaxue Xuebao, Corrosion Protection of Ceria Particles in Mg-Rich Primer on AZ91D Magnesium Alloy Acta Physico-Chimica Sinica, 28(2), (2012), 407-413, ISSN: 1872-1508

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 (2008) 727-733. ISSN: 0378-7753.

- 1304.** F.Cheng, J.Chen, Metal-air batteries: from oxygen reduction electrochemistry to cathode catalysts, Chemical Society Reviews, 41(6), (2012), pp. 2172-2192

- 1305.** M. Aghazadeh, A. A. Barmi, M. Hosseinfard, Nanoparticulates Zr(OH)4 and ZrO₂ prepared by low-temperature cathodic electrodeposition, Materials Letters, 73, (2012), 28-31, ISSN: 0167-577X.
- 1306.** M. Aghazadeh, Cathodic electrodeposition of ZrO₂: Impact of Current Density on the Crystal Structure, Composition and Morphology, J.Electrochem.Soc., 159(3), (2012), E53-E58, ISSN 0013-4651.
- 1307.** A. Salimi, R. Hallaj, Cobalt oxide nanostructure-modified glassy carbon electrode as a highly sensitive flow injection amperometric sensor for the picomolar detection of insulin, Journal of Solid State Electrochemistry, 16(3), (2012), pp.1239-1246, ISSN:1432-8488.
- 1308.** F. Kong, Synthesis of rod and beadlike Co₃O₄ and bi-functional properties as air/oxygen electrode materials, Electrochim.Acta, 68, (2012), pp. 198-201, ISSN: 0013-4686.
- 1309.** J. Yin, B. Fang, J. Luo, B. Wanjala, D. Mott, R. Loukrakpam, M. S. Ng, Z. Li, J. Hong, M. S. Whittingham, C.J. Zhong, Nanoscale Alloying Effect of Gold-Platinum Nanoparticles as Cathode Catalysts on Electrocatalytic Properties in Rechargeable Lithium-Oxygen Battery, Nanotechnology, 23(30), (2012), art.No 305404.
- 1310.** R. Cao, Y.S. Lee, M. Lin, J. Cho, Recent progress in non-precious catalysts for metal-air batteries, Advanced Energy Materials, 2(7), (2012), pp.816-829 ISSN: 1614-6840.

E. Stoyanova, D. Nikolova, D. Stoychev, I. Avramova, P. Stefanov, Passivity of OC404 steel modified electrochemically with Ce₂O₃-CeO₂ oxide layers in sulphuric acid media, Electrochi.Acta, 55 (2010), pp. 1725-1732, ISSN: 0013-4686.

- 1311.** G. Silveira, A. D. Morais, P. C. M.Villis, C. M. Maroneze, Y. Grushikem. A. M. Lucho, F. L. Pissetti, Electrooxidation of nitrite on a silica-cerium mixed oxide carbon paste electrode, J. Colloid and Interface Science, 369(1), (2012), pp. 302-308, ISSN: 0021-9797

S. Cherneva, R. Iankov, D. Stoychev, Characterization of mechanical properties of electrochemically deposited thin silver layers, Transactions of the Institute of Metal Finishing, Birmingham, EnglandTrans.Inst.Met.Finishing, 88(4), (2010), pp. 209-214, ISSN: 0020-2967

- 1312.** R. Freundenberger, Galvanotechnik, 104(4) (2012), pp. 692-700, ISSN: 00164232.

M. Datcheva, S. Cherneva, M. Stoycheva, R. Iankov, D. Stoychev, Determination of Anodized Aluminum Material Characteristics by Means of Nano-Indentation Measurements, Materials Science and Applications, 2(10), (2011), pp. 1452-1464, ISSN: 2153-117X.

- 1313.** A. Dey, R. Uma-Rani, H. K. Thota, A. K. Sharma, P. Bandyopadhyay, A. K. Mukhopadhyay, Microstructural, corrosion and nanomechanical behaviour of ceramic coatings developed on magnesium AZ31 alloy by micro arc oxidation, *Ceramics International*, In Press, Available online 17 October 2012

M. Anic, N. Radic, B. Grbic, V. Dondur, L. Damjanovic, D. Stoychev, P. Stefanov, Catalytic activity of Pt catalysts promoted by MnO_x for n-hexane oxidation, Applied Catalysis B:Environmental, 107(3-4), 327-332 (2011), ISSN: 0926-3373

- 1314.** S. Liu, X. Wu, D. Weng, M. Li, H.-R. Lee, Combined promoting effects of platinum and MnO_x-CeO₂ supported on alumina on NO_x-assisted soot oxidation: Thermal stability and sulfur resistance, *Chemical Engineering Journal*, 203, 25-35 (2012), ISSN: 1385-8947.

A. Hrušanova, I. Krastev, J. Appl. Electrochemistry, 39 (2009), 989 ISSN: 1572-8838.

- 1315.** Wei, L.X., Haseeb, A.S.M.A., Goh, Y., Effects of thiourea and gelatin on the electrodeposition of Sn-Ag solder alloy (Conference Paper), Proceedings of the 4th Asia Symposium on Quality Electronic Design, ASQED 2012, 2012, Article number6320518, Pages 291-296

Hrušanova, A., Krastev, I., Beck, G., Zielonka, A., (2010) Journal of Applied Electrochemistry, 40 (12), pp. 2145-2151 ISSN: 1572-8838.

- 1316.** He, Y., Gao, X., Zhang, Y., Xu, H., Electrodeposition of Sn-Ag-Cu ternary alloy from HEDTA electrolytes Surface and Coatings Technology, Volume 206, Issue 19-20, 25 May 2012, Pages 4310-4315

Valkova, T., Krastev, I., (2002) Transactions of the Institute of Metal Finishing, 80 (1), pp. 21-24 ISSN: 0020-2967

- 1317.** Araki, S., Nakamura, K., Kobayashi, K., Tsuboi, A., Kobayashi, N., *Electrochemical optical-modulation device with reversible transformation between transparent, mirror, and black* Advanced Materials, Volume 24, Issue 23, 19 June 2012, Pages OP122-OP126

Valkova, T., Krastev, I., (2002) Transactions of the Institute of Metal Finishing, 80 (1), pp. 13-15 ISSN: 0020-2967

- 1318.** Farr, J. P. G, Going the last nanometer *Transactions of the Institute of Metal Finishing*, Volume 90, Issue 2, March 2012, Pages 69-77

Krastev, I., Koper, M.T.M., (1995) *Physica A: Statistical Mechanics and its Applications*, 213 (1-2), pp. 199-208 ISSN: 0378-4371.

- 1319.** Ranguelov, B., Goranova, D., Tonchev, V., Yakimova, R., Diffusion limited aggregation with modified local rules, Comptes Rendus de L'Academie Bulgare des Sciences, Volume 65, Issue 7, 2012, Pages 913-918
- 1320.** Krastev., I, Dobrovolska T, Lačnjevac U, Nineva S, Pattern formation during electrodeposition of indium–cobalt alloys, J Solid State Electrochem 16:3449–3456, (2012), ISSN: 1432-8488
- 1321.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation J Solid State Electrochem., DOI 10.1007/s10008-012-1945-7

Dobrovolska T, Krastev I, Žabinski P, Kowalik R, Zielonka A, Oscillations and self-organization phenomena during electrodeposition of silver–indium alloys. Experimental study. Arch. Metall Mater 56:645–657 (2011) ISSN: 1733-3490.

- 1322.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, J. Solid State Electrochem., DOI 10.1007/s10008-012-1945-7

Krastev I, Koper MTM., Pattern formation during the electrodeposition of a silver–antimony alloy, Physica A 213: 199–208, (1995) ISSN: 0378-4371

- 1323.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, J. Solid State Electrochem., DOI 10.1007/s10008-012-1945-7

Krastev I, Valkova T, Zielonka A Effect of electrolysis conditions on the deposition of silver–bismuth alloys, J. Appl Electrochem 33: 1199–1204 (2003) ISSN: 0021-891X.

- 1324.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation J. Solid State Electrochem., DOI 10.1007/s10008-012-1945-7

Krastev I, Valkova T, Zielonka A., Structure and properties of electrodeposited silver–bismuth alloys, J Appl Electrochem 34:79–85 (2004) ISSN: 0021-891X.

- 1325.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, J. Solid State Electrochem., DOI 10.1007/s10008-012-1945-7

Dobrovolska T, Krastev I, Zielonka A, Formazione di strutture organizzate nelle leghe di argento: argento-cadmio. AIFMGalvanotecnica e Nuove Finiture 5:287–289 (2009) ISSN: 0016-4240

- 1326.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Dobrovolska T, Krastev I, Jovic BM, Jovic VD, Beck G, Lacnjevac U, Zielonka A Phase identification in electrodeposited Ag–Cd alloys by anodic linear sweep voltammetry and X-ray diffraction techniques. *Electrochim Acta* 56:4344–4350 (2011) ISSN: 0013-4686.

- 1327.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Dobrovolska T, López-Sauri DA, Veleva L, Krastev I Oscillations and spatio-temporal structures during electrodeposition of AgCd alloys, *Electrochim Acta* 79:162–169 (2012) ISSN: 0013-4686

- 1328.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Dobrovolska T, Veleva L, Krastev I, Zielonka A Composition and structure of silver-indium alloy coatings electrodeposited from cyanide electrolytes. *J. Electrochem Soc* 152: C137–C142 (2005) ISSN: 0013-4651.

- 1329.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Dobrovolska T, Krastev I, Zielonka A Effect of the electrolyte composition on In and Ag–In alloy electrodeposition from cyanide electrolytes, *J. Appl Electrochem* 35:1245–1251 (2005) ISSN: 0021-891X

- 1330.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Dobrovolska T, Jovic VD, Jovic BM, Krastev I Phase identification in electrodeposited Ag–In alloys by ALSV technique, *J. Electroanal Chem* 611:232–240 (2007) ISSN: 0022-0728

- 1331.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Dobrovolska T, Beck G, Krastev I, Zielonka A Phase composition of electrodeposited silver-indium alloys, J. Solid State Electrochem 12:1461–1467 (2008) ISSN: 1432-8488

- 1332.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Krastev I, Dobrovolska T, Kowalik R, Zabinski P, Zielonka A, Properties of silver-indium alloys electrodeposited from cyanide electrolytes, Electrochim Acta 54:2515–2521 (2009) ISSN: 0013-4686

- 1333.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Krastev I, Nikolova M., Structural effects during the electrodeposition of silver-antimony alloys from ferrocyanide-thiocyanate electrolytes, J. Appl Electrochem 16:875–878 (1986) ISSN: 0021-891X

- 1334.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Nakabayashi S, Krastev I, Aogaki R, Inokuma K Electrochemical instability of AgSb co-deposition coupled with a magnetohydrodynamic flow. Chem Phys Lett 294:204–208 (1998)

- 1335.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Krastev I, Petkova N, Zielonka A Properties of silver-antimony alloys electrodeposited from ferrocyanide-thiocyanate electrolytes, J. Appl Electrochem 32:811–818 (2002) ISSN: 0021-891X.

- 1336.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Hrušanova A, Krastev I Electrodeposition of silver–tin alloys from pyrophosphate-cyanide electrolytes, *J. Appl Electrochem* **39**:989–994 (2009) ISSN: 0021-891X.

- 1337.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

Krastev, I., Self-structured silver alloy coatings and their properties, J. Eng. Proces Manag **1**:104–112 (2009) ISSN: 1463-7154

- 1338.** Benedetto Bozzini, Deborah Lacitignola, Ivonne Sgura, Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation, *J. Solid State Electrochem.*, DOI 10.1007/s10008-012-1945-7

I.Krastev, A. Zielonka, J. Appl. Electrochem. 32 (2002) 1141–1149, ISSN: 0021-891X

- 1339.** Artur Maciej, Ginter Nawrat, Wojciech Simka, Jerzy Piotrowski, Formation of compositionally modulated Zn–Ni alloy coatings on steel Materials Chemistry and Physics 132 (2012) 1095– 1102

A.Hrušanova, I. Krastev, J. Appl. Electrochem. 39 (2009) 989 ISSN: 0021-891X.

- 1340.** N. Pewnim, S. Roy, Electrodeposition of Tin-rich Cu-Sn Alloys from a Methanesulfonic Acid Electrolyte *Electrochimica Acta*, DOI: doi:10.1016/j.electacta.2012.12.053, ISSN: 0013-4686

Hrušanova, A., Krastev, I., Beck, G., Zielonka, A. , (2010) Journal of Applied Electrochemistry, 40 (12), p. 2145 ISSN: 0021-891X

- 1341.** Freudenberger, R., The electrodeposition of precious metals for technical applications, *Galvanotechnik*, Volume 103, Issue 4, April 2012, Pages 692-700

Dobrovolska, Ts., Krastev, I., Zielonka, A., ECS Transactions, 25 (20), (2010), pp. 1-9 ISSN: 1938-6737

- 1342.** Nakouzi, E., Sultan, R., Fractal structures in two-metal electrodeposition systems II: Cu and Zn, *Chaos*, Volume 22, Issue 2, 4 April 2012, Article number 023122

T. Dobrovolska, I. Krastev, B.M. Jovic, V.D. Jovic, G. Beck, U. Lacnjevac, A., Zielonka, Electrochim. Acta 56 (2011) 4344 ISSN: 0013-4686.

- 1343.** G. Kaptay, The conversion of phase diagrams of solid solution type into electrochemical synthesis diagrams for binary metallic systems on inert cathodes, *Electrochimica Acta*, 60 (2012) 401– 409

J. Georgieva, E. Valova, S. Armyanov, N. Philippidis, I. Poulios, S. Sotiropoulos, “Bi-component semiconductor oxide photoanodes for the photoelectrocatalytic oxidation of organic solutes and vapours: a short review with emphasis to TiO₂-WO₃ photoanodes”, *Journal of Hazardous Materials*, 211-212, 30–46 (2012). ISSN: 0304-3894.

1344. Z. Zhang, W. Wang, L. Wang, S. Sun, “Enhancement of visible light photocatalysis by coupling with narrow-band-gap semiconductor: A case study on Bi₂S₃/Bi₂WO₆”, *ACS Appl. Mater. Interfaces*, 4, 593 (2012), ISSN: 1944-8244 (Print) 1944-8252 (Electronic).

1345. S. Stojadinović, N. Radić, R. Vasilijević, M. Petković, P. Stefanov, Lj. Zeković, B. Grbić, „Photocatalytic properties of TiO₂/WO₃ coatings formed by plasma electrolytic oxidation of titanium in 12-tungstosilicic acid”, *Appl. Catal. B: Environm.*, 126, 334 (2012). ISSN: 0926-3373.

A. Tegou, S. Papadimitriou, I. Mintsouli, S. Armyanov, E. Valova, G. Kokkinidis, S. Sotiropoulos, “Rotating disc electrode studies of borohydride oxidation at Pt and bimetallic Pt-Ni and Pt-Co electrodes”, *Catalysis Today*, 170 (1) 126-133 (2011). ISSN: 0920-5861

1346. L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, D. Šimkūnaitė, A. Selskis, „Self-ordered titania nanotubes and flat surfaces as a support for the deposition of nanostructured Au–Ni catalyst: Enhanced electrocatalytic oxidation of borohydride”, *J. Power Sources*, 202, 85 (2012). ISSN: 0378-7753.

1347. L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, A. Vaiciukevičienė, A. Selskis, V. Pakštas, “Investigation of nanostructured platinum-nickel supported on the titanium surface as electrocatalysts for alkaline fuel cells” *J. Power Sources*, 208, 242 (2012). ISSN: 0378-7753.

1348. K. Bano, G. F. Kennedy, J. Zhang, A. M. Bond, “Large amplitude Fourier transformed ac voltammetry at a rotating disc electrode: A versatile technique for covering Levich and flow rate insensitive regimes in a single experiment” *Phys. Chem. Chem. Phys.*, 14, 4742 (2012). ISSN: 1463-9076

1349. L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, R. Čekavičiūtė, A. Selskis, “Investigation of Titanium Supported Nanostructured Au-Ni and Pt-Ni Thin Layers as Electrocatalysts for DBFC”, *J. Electrochem. Soc.*, 159 (5) B611 (2012) ISSN 0013-4651.

1350. M. Zhang, Z. Yan, J. Xie, “Core/shell Ni@Pd nanoparticles supported on MWCNTs at improved electrocatalytic performance for alcohol oxidation in alkaline media”, *Electrochimica Acta*, 77, 237 (2012). ISSN: 0013-4686.

1351. L. Yi, L. Liu, X. Liu, X. Wang, W. Yi, P. He, X. Wang, “Carbon-supported Pt–Co nanoparticles as anode catalyst for direct borohydride-hydrogen

- peroxide fuel cell: Electrocatalysis and fuel cell performance”, *Intern. J. Hydrogen Ener.*, 37, 12650 (2012). ISSN: 0360-3199.
1352. S. Yu, Q. Lou, K. Han, Z. Wang, H. Zhu, “Synthesis and electrocatalytic performance of MWCNT-supported Ag@Pt core–shell nanoparticles for ORR”, *Intern. J. Hydrogen Energy*, 37, 13365 (2012). ISSN: 0360-3199.
1353. A. L. Morais, J. R. C. Salgado, B. Šljukić, D. M. F. Santos, C. A. C. Sequeira, “Electrochemical behaviour of carbon supported Pt electrocatalysts for H₂O₂ reduction”, *Intern. J. Hydrogen Energy*, 37, 14143 (2012). ISSN: 0360-3199.
1354. M. Zhang, *New J. Chem.*, “Synthetic core/shell Ni@Pd nanoparticles supported on graphene and used as an advanced nanoelectrocatalyst for methanol oxidation”, 36, 2533 (2012). ISSN 1144-0546.
1355. L. Tamasauskaite-Tamasiunaité, A. Balčiūnaitė, A. Vaiciukevičienė, A. Selskis, “Investigation of Electrocatalytic Activity of Titania Nanotube Supported Nanostructured Pt-Ni Catalyst Towards Methanol Oxidation”, *ECS Transactions*, 45 (2) 125-133 (2012). ISSN: 1938-6737.
- J. Georgieva, S. Sotiropoulos, S. Artyanov, N. Philippidis, I. Poulios, “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) 173–181 (2011) ISSN: 0021-891X (Print) 1572-8838 (Online)
1356. R. Q. Cabrera, E. R. Latimer, A. Kafizas, C. S. Blackman, I. P. Parkin, “Photocatalytic activity of needle-like TiO₂/WO_{3-x} thin films prepared by chemical vapour deposition.” *J. Photochem. Photobiol. A: Chem.*, 239, 60 (2012). ISSN: 1010-6030.
1357. C. Guo, S. Yin, T. Sato, “Tungsten Oxide-Based Nanomaterials: Morphological-Control, Properties, and Novel Applications”, *Rev. Advanced Sciences & Engin.*, 1, (3) 235-263 (2012). ISSN: 2157-9121 (Print): EISSN: 2157-913X (Online).
1358. T. Berger, D. Monllor-Satoca, M. Jankulovska, T. Lana-Villarreal, R. Gómez, “The electrochemistry of nanostructured titanium dioxide electrodes”, *ChemPhysChem.*, 13, 2824 (2012). ISSN: 1439-7641.
- J. Georgieva, S. Sotiropoulos, S. Artyanov, E. Valova, I. Poulios, N. Philippidis, „Electrochemical Preparation of TiO₂ and WO₃ Single Component or Bicomponent Photocatalytic Coatings for Photoelectrochemical Oxidation of Organics: A Short Review” in *Applied Electrochemistry*, Editor: V. G. Singh Nova Science Publishers, N.Y. 2010 Series: Chemistry Research and Applications, pp. 301-334. ISBN: 978-1-60876-208-8

- 1359.** J. Malm, T. Sajavaara, M. Karppinen, “Atomic Layer Deposition of WO_3 Thin Films using $\text{W}(\text{CO})_6$ and O_3 Precursors”, *Chemical Vapor Deposition*, 18, 245 (2012). ISSN: 1521-3862.
- E. Valova, J. Georgieva, S. Armyanov, I. Avramova, J. Dille, O. Kubova, M.-P. Delplancke, “Corrosion Behavior of Hybrid Coatings: Electroless Ni-Cu-P and Sputtered TiN”, Surface and Coatings Technology, 204 (16-17) 2775-2781 (2010) ISSN. 0257-8972.**
- 1360.** L. Zhu, L. Luo, J. Luo, Y. Wu, J. Li, “Effect of electroless plating Ni–Cu–P layer on brazability of cemented carbide to steel”, *Surf. Coat. Tech.*, 206, 2521 (2012). ISSN: 0257-8972. ISSN: 0257-8972.
- 1361.** A. E. Fetohi, R. M. Abdel Hameed, K. M. El-Khatib, E. R. Souaya, “Ni–P and Ni–Co–P coated aluminum alloy 5251 substrates as metallic bipolar plates for PEM fuel cell applications”, *Intern. J. Hydrogen Energy*, 37, 7677 (2012). ISSN: 0360-3199.
- 1362.** Y. Xu, Y. Zou, T. Luan, “Application of Electrochemical Techniques in the Porosity Assessment of Electroless Coatings”, *Advanced Materials Research*, 557-559, 1848 (2012). ISSN: 1022-6680.
- 1363.** Y. Xu, T. Luan, Y. Zou, “Artificial neural networks implementation in Ni–Cu–P ternary coating: Investigation of the effects of bath stabilizers”, *Proceedings - International Conference on Natural Computation*, art. no. 6234648, p. 422 (2012).
- 1364.** S. Arockiasamya, T. Maiyalagan, P. Kuppusami, C. Mallika, K. S. Nagaraja, “Deposition of Ni/TiN composite coatings by a plasma assisted MOCVD using an organometallic precursor”, *Micro and Nanosystems*, 4 (3) 199 (2012). ISSN:1876-4029 (Print) ; 1876-4037 (Electronic).
- 1365.** Q. Ashton Acton, “Issues in Materials and Manufacturing Research: 2011 Edition”, Scholarly Editions, 2012, ISBN1464963304, 9781464963308.
- 1366.** M. Mohammadian, A. Afzali, V. Mottaghitalab, A. K. Haghi, “Washing and Rubbing Fastness of Electroless Plated Polyester Conductive Fabric”, *Materiale Plastice*, 49 (3) 182 (2012). ISSN: 0025-5289.
- J. Georgieva, S. Armyanov, I. Poulios, A. D. Jannakoudakis, and S. Sotiropoulosb, “Gas Phase Photoelectrochemistry in a Polymer Electrolyte Cell with a Titanium Dioxide/Carbon/Nafion Photoanode”, Electrochemical and Solid-State Letters, 13 (10) P11-P13 (2010). ISSN (Print): 1099-0062, ISSN (Online): 1944-8775**
- 1367.** W.-M. Hou, Y. Ku, “Decomposition of Gaseous Isopropanol by UV/ TiO_2 Process with Applying Bias Potential in a Polymer Electrolyte Cell”, 14th Asia Pacific Confederation of Chemical Engineering APCChE 2012

Congress 21-24 February 2012, Singapore.
<http://student2.ntust.edu.tw/ezfiles/21/1021/img/326/hoD9606103.pdf>

E. Valova, J. Georgieva, S. Armyanov, S. Sotiropoulos, A. Hubin, K. Baert, M. Raes, "Morphology, structure and photoelectrocatalytic activity of TiO₂/WO₃ coatings obtained by pulsed electrodeposition onto metal substrates", *Journal of the Electrochemical Society*, 157 (5) D309-D315 (2010). ISSN (Print): 0013-4651, ISSN (Online): 1945-7111

- 1368.** H. G. Oliveira, B. C. Fitzmorris, C. Longo, J. Z. Zhang, "Photoelectrochemical and photocatalytic properties of TiO₂, WO₃ and WO₃-TiO₂ porous films in the photodegradation of rhodamine 6G in aqueous solution", *Science of Advanced Materials*, 4 (5-6) 673-680 (2012). ISSN: 1947-2935 (Print); EISSN: 1947-2943 (Online).

S. Papadimitriou, S. Armyanov, E. Valova, A. Hubin, O. Steenhaut, E. Pavlidou, G. Kokkinidis, S. Sotiropoulos, "Methanol oxidation at Pt-Cu, Pt-Ni, and Pt-Co electrode coatings prepared by a galvanic replacement process", *J. Phys. Chem. C*, 114 (1) 5217-5223 (2010). ISSN: 1932-7447.

- 1369.** Y. Hu, P. Wu, Y. Yin, H. Zhang, C. Cai, „Effects of structure, composition, and carbon support properties on the electrocatalytic activity of Pt-Ni-graphene nanocatalysts for the methanol oxidation“, *Appl. Catal. B: Environmen.*, 111-112, 208 (2012). ISSN: 0926-3373

- 1370.** C.-S. Chen, F.-M. Pan, „Effects of the PdO Nanoflake Support on Electrocatalytic Activity of Pt Nanoparticles toward Methanol Oxidation in Acidic Solutions“, *J. Power Sources*, 208, 9 (2012) ISSN: 0378-7753.

- 1371.** H. Zhao, C. Yu, H. You, S. Yang, Y. Guo, B. Ding, X. Song, „A green chemical approach for preparation of Pt_xCu_y nanoparticles with a concave surface in molten salt for methanol and formic acid oxidation reactions“, *J. Mater. Chem.*, 22, 4780 (2012). ISSN 0959-9428.

- 1372.** B. I. Podlovchenko, T. D. Gladysheva, A. Yu. Filatov, L. V. Yashina, „Peculiarities of the Pt(Cu)/C catalyst formation by galvanic displacement of copper in H₂PtCl₆ solutions“, *Russ. J. Electrochem.*, 48, 173 (2012). ISSN (printed): 1023-1935. ISSN (electronic): 1608-3342.

- 1373.** Y. Huang, J. Cai, S. Zheng, Y. Guo, "Fabrication of a high-performance Pb-PtCu/CNT catalyst for methanol electro-oxidation", *J. Power Sources*, 210, 81 (2012). ISSN: 0378-7753.

- 1374.** Xixi Li, Hui Zhang, "Excellent catalytic activity of Pt-TiO₂/CNTs with much lower Pt content and smaller size by modified immersion route for direct methanol electro-oxidation", <http://www.google.ca/url?sa=t&rct=j&q=armyanov&source=web&cd=1&ved=0CC8QFjAA&url=http%3A%2F%2Fevents.dechema.de%2Fen%2Fp->

- 1375.** B. I. Podlovchenko, V. A. Krivchenko, Yu. M. Maksimov, T. D. Gladysheva, L. V. Yashina, S. A. Evlashin, A. A. Pilevsky, “Specific Features of the Formation of Pt(Cu) Catalysts by Galvanic Displacement with Carbon Nanowalls used as Support”, *Electrochimica Acta*, 76, 137 (2012). ISSN: 0013-4686.
- 1376.** M. D. Obradović, B.M. Babić, V.R. Radmilović, N.V. Krstajić, S.Lj. Gojković, “Core-shell structured tungsten–tungsten carbide as a Pt catalyst support and its activity for methanol electrooxidation”, *Internat. J. Hydrogen Ener.*, 37, 10671 (2012). ISSN: 0360-3199.
- 1377.** R. Ahmadi, M. K. Amini, J. C. Bennett, “Pt–Co alloy nanoparticles synthesized on sulfur-modified carbon nanotubes as electrocatalysts for methanol electrooxidation reaction”, *J. Catalysis*, 292, 81 (2012). ISSN: 0021-9517.
- 1378.** B. I. Podlovchenko, T. D. Gladysheva, V. A. Krivchenko, Y. M. Maksimov, A. Y. Filatov, L. V. Yashina, “Effect of Copper Deposit Morphology on the Characteristics of a Pt(Cu)/C-Catalyst Obtained by Galvanic Displacement”, *Mendeleev Communications*, 22 (4), 203 (2012). ISSN: 0959-9436.
- 1379.** S. Dash, N. Munichandraiah, “Electrocatalytic Oxidation of 1, 2-Propanediol on Electrodeposited Pd-poly(3, 4-ethylenedioxythiophene) Nanodendrite Films in Alkaline Medium”, *Electrochim. Acta*, 80, 68 (2012). ISSN: 0013-4686
- 1380.** B. Luo, S. Xu, X. Yan, Q. Xue, “Synthesis and electrochemical properties of graphene supported PtNi nanodendrites”, *Electrochim. Communic.*, 23, 72 (2012). ISSN-1388-2481.
- 1381.** C. Zhang, H. Yu, Y. Li, W. Song, B. Yi, Z. Shao, “Preparation of Pt catalysts decorated TiO₂ nanotube arrays by redox replacement of Ni precursors for proton exchange membrane fuel cells”, *Electrochim. Acta*, 80, 1 (2012). ISSN: 0013-4686.
- 1382.** A. W. Maijenburg, A. George, D. Samal, M. Nijland, R. Besseling, B. Kuiper, J. E. Kleibeuker, J. E. ten Elshof, “Electrodeposition of micropatterned Ni|Pt multilayers and segmented Ni|Pt|Ni nanowires”, *Electrochim. Acta*, 81, 123 (2012). ISSN: 0013-4686.
- 1383.** F. Calle-Vallejo, M. T.M. Koper, “First-Principles Computational Electrochemistry: Achievements and Challenges”, *Electrochim. Acta*, 84, 3 (2012). ISSN: 0013-4686.

- 1384.** J. Xu, X. Liu, Y. Chen, Y. Zhou, T. Lu, Y. Tang, *J. Mater. Chem.*, 22, 23659 (2012)
- 1385.** N. Hodnik, M. Bele, A Rečnik, N. Z. Logar, M. Gaberšček, S. Hocevar, “Enhanced Oxygen Reduction and Methanol Oxidation Reaction Activities of Partially Ordered PtCu Nanoparticles”, *Energy Procedia*, 29, 208 (2012). ISSN: 1876-6102.
- 1386.** Hiesang Sohn., Ph.D Diss. in Chem. Eng., University of California, Los Angeles, “Fabrication of porous materials (metal, metal oxide and semiconductor) through an aerosol-assisted route”, UMI # 3532461, Published by ProQuest LLC 2012.
- A. Tegou; S. Armyanov; E. Valova; O. Steenhaut, A. Hubin; G. Kokkinidis; S. Sotiropoulos,** “Mixed platinum-gold electrocatalysts for borohydride oxidation prepared by the galvanic replacement of nickel deposits”, *Journal of Electroanalytical Chemistry*, 634, 104-110 (2009). ISSN: 1572-6657
- 1387.** P. He, X. Wang, Y. Liu, L. Yi, X. Liu, „Reverse micelle synthesis of AuNi alloy as electrocatalyst of borohydride oxidation“, *Intern. J. Hydr. Energy*, 37, 1254 (2012). ISSN: 0360-3199.
- 1388.** L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, D. Šimkūnaitė, A. Selskis, „Self-ordered titania nanotubes and flat surfaces as a support for the deposition of nanostructured Au–Ni catalyst: Enhanced electrocatalytic oxidation of borohydride“, *J. Power Sources*, 202, 85 (2012). ISSN: 0378-7753.
- 1389.** R. Kazemi, A. Kiani, „Deposition of palladium submonolayer on nanoporous gold film and investigation of its performance for the methanol electrooxidation reaction“, *Intern. J. Hydrol. Ener.*, 37, 4098 (2012). ISSN: 0360-3199.
- 1390.** L. Yi, Y. Song, X. Wang, L. Yi, J. Hu, G. Su, W. Yi, H. Yan, „Carbon supported palladium hollow nanospheres as anode catalysts for direct borohydride-hydrogen peroxide fuel cells“, *J. Power Sources*, 205, 63 (2012). ISSN: 0378-7753.
- 1391.** L. Vázquez-Gómez, S. Cattarin, N. Comisso, P. Guerriero, M. Musiani, E. Verlato, “Spontaneous deposition of Pd onto Fe-Cr-Al alloys”, *Electrochim. Acta*, 68, 114 (2012). ISSN: 0013-4686.
- 1392.** L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, A. Vaiciukevičienė, A. Selskis, V. Pakštas, “Self-ordered titania nanotubes and flat surfaces as a support for the deposition of nanostructured Au–Ni catalyst: Enhanced

electrocatalytic oxidation of borohydride”, *J. Power Sources*, 202, 85 (2012). ISSN: 0378-7753.

1393. S. Fiameni, I. Herraiz-Cardona, M. Musiani, V. Pérez-Herranz, L. Vázquez-Gómez, E. Verlato, “The HER in alkaline media on Pt-modified three-dimensional Ni cathodes”, *Internat. J. Hydrogen Ener.*, 37, 10507 (2012). ISSN: 0360-3199.
1394. L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, R. Čekavičiūtė, A. Selskis, “Investigation of Titanium Supported Nanostructured Au-Ni and Pt-Ni Thin Layers as Electrocatalysts for DBFC”, *J. Electrochem. Soc.*, 159 (5) B611 (2012).
1395. B. Šljukić, A. L. Morais, D. M. F. Santos, C. A. C. Sequeira, “Anion- or Cation-Exchange Membranes for NaBH₄/H₂O₂ Fuel Cells?”, *Membranes*, 2 (3), 478 (2012). ISSN 2077-0375.
1396. P. He, X. Wang, Y. Liu, X. Liu, L. Yi, *Internat. J. Hydrogen Ener.*, 37, 11984 (2012). ISSN: 0360-3199.
1397. A. W. Maijenburg, A. George, D. Samal, M. Nijland, R. Besseling, B. Kuiper, J. E. Kleibeuker, J. E. ten Elshof, “Electrodeposition of micropatterned Ni|Pt multilayers and segmented Ni|Pt|Ni nanowires”, *Electrochim. Acta*, 81, 123 (2012). ISSN: 0013-4686.
1398. A. L. Morais, J. R. C. Salgado, B. Šljukić, D. M. F. Santos, C. A. C. Sequeira, “Electrochemical behaviour of carbon supported Pt electrocatalysts for H₂O₂ reduction”, *Intern. J. Hydrogen Energy*, 37, 14143 (2012). ISSN: 0360-3199.
1399. S. Cimino, L. Lisi, G. Mancino, M. Musiani, L. Vázquez-Gómez, E. Verlato, „Catalytic partial oxidation of CH₄-H₂ mixtures over Ni foams modified with Rh and Pt”, *Intern. J. Hydrogen Energy*, 37, 17040 (2012). ISSN: 0360-3199.
1400. M. Etesami, N. Mohamed, “A comparative electrooxidation study on simply prepared nanoparticles in acidic and alkaline media”, *Chemija*, 23 (3) 171 (2012). ISSN: 0235-7216.
1401. L. Tamasauskaite-Tamasiunaitė, A. Balčiūnaitė, A. Vaiciukevičienė, A. Selskis, “Investigation of Electrocatalytic Activity of Titania Nanotube Supported Nanostructured Pt-Ni Catalyst Towards Methanol Oxidation”, *ECS Transactions*, 45 (2) 125 (2012). ISSN: 1938-6737.

A. Tegou, S. Papadimitriou, S. Armyanov, E. Valova, G. Kokkinidis, S. Sotiropoulos, “Oxygen reduction at platinum- and gold-coated iron, cobalt, nickel and lead deposits on

glassy carbon substrates”, *Journal of Electroanalytical Chemistry*, 623 (2) 187-196 (2008)
ISSN: 1572-6657.

- 1402.** M. S. El-Deab, “Platinum nanoparticles–manganese oxide nanorods as novel binary catalysts for formic acid oxidation”, *J. Advanced Research*, 3, 65 (2012). ISSN: 2090-1232.
- 1403.** M. K. Jeon, P. J. McGinn, “Co-alloying effect of Co and Cr with Pt for oxygen electro-reduction reaction”, *Electrochimica Acta*, 84, 147 (2012). ISSN: 0013-4686.
- 1404.** L. Yi, Y. Song, X. Wang, L. Yi, J. Hu, G. Su, W. Yi, H. Yan, *J. Power Sources*, “Carbon supported palladium hollow nanospheres as anode catalysts for direct borohydride-hydrogen peroxide fuel cells”, 205, 63 (2012). ISSN: 0378-7753.
- 1405.** E. H. Yu, X. Wang, U. Krewer, L. Li, K. Scott, Direct oxidation alkaline fuel cells: from materials to systems, *Energy & Environmental Science*, 5, 5668 (2012). ISSN 1754-5692.
- 1406.** V. V. Kuznetsov, K. V. Kavyrshina, B. I. Podlovchenko, Formation and electrocatalytic properties of Pd deposits on Mo obtained by galvanic displacement, *Russ. J. Electrochem.*, 48, 467 (2012). ISSN (printed): 1023-1935. ISSN (electronic): 1608-3342.
- 1407.** J.-H. Jang, E. Lee, Y.-Uk Kwon, Enhanced electrocatalytic performance for hydrogen oxidation reaction on gold nanoparticles supported on tungsten oxide (VI) modified carbon Original Research Article, *Internat. J. Hydr. Ener.*, 37, 8170 (2012). ISSN: 0360-3199.
- 1408.** B. Luo, S. Xu, X. Yan, Q. Xue, “Synthesis and electrochemical properties of graphene supported PtNi nanodendrites”, *Electrochim. Communic.*, 23, 72 (2012). ISSN-1388-2481.
- 1409.** J. Zhang, G. Chen, M. An, P. Wang, Preparation of PtAu Catalytic Particles on Positive Electrode of Li/air Battery Using Pulse Electroplating, *Int. J. Electrochem. Sci.*, 7, 11957 (2012). ISSN 1452-3981.

S. Papadimitriou, A. Tegou, E. Pavlidou, S. Armyanov, E. Valova, G. Kokkinidis, S. Sotiropoulos, “Preparation and characterisation of platinum- and goldcoated copper, iron, cobalt and nickel deposits on glassy carbon substrates”, *Electrochimica Acta*, 53, (22) 6559-6567 (2008) ISSN: 0013-4686.

- 1410.** R. Kazemi, A. Kiani, Deposition of palladium submonolayer on nanoporous gold film and investigation of its performance for the methanol electrooxidation reaction, *Intern. J. Hydr. Ener.*, 37, 4098 (2012) ISSN: 0360-3199.

- 1411.** M. D. Obradović, A. V. Tripković, S. Lj. Gojković, Oxidation of carbon monoxide and formic acid on bulk and nanosized Pt–Co alloy, *J. Solid State Electrochem.*, 16, 587 (2012). ISSN: 1432-8488 (Print) 1433-0768 (Online)
- 1412.** L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, D. Šimkūnaitė, A. Selskis, Self-ordered titania nanotubes and flat surfaces as a support for the deposition of nanostructured Au–Ni catalyst: Enhanced electrocatalytic oxidation of borohydride, *J. Power Sources*, 202, 85 (2012). ISSN: 0378-7753.
- 1413.** M.A. Domínguez-Crespo, E. Ramírez-Meneses, A.M. Torres-Huerta, V. Garibay-Febles, K. Philippot, Kinetics of hydrogen evolution reaction on stabilized Ni, Pt and Ni–Pt nanoparticles obtained by an organometallic approach, *Intern. J. Hydr. Energy*, 37, 4798 (2012). ISSN: 0360-3199.
- 1414.** L. Yi, Y. Song, X. Wang, L. Yi, J. Hu, G. Su, W. Yi, H. Yan, “Carbon supported palladium hollow nanospheres as anode catalysts for direct borohydride-hydrogen peroxide fuel cells”, *J. Power Sources*, 205, 63 (2012). ISSN: 0378-7753.
- 1415.** B. I. Podlovchenko, T. D. Gladysheva, A. Yu. Filatov, L. V. Yashina, “Peculiarities of the Pt(Cu)/C catalyst formation by galvanic displacement of copper in H_2PtCl_4 solutions”, *Russ. J. Electrochem.*, 48, 173 (2012). ISSN (printed): 1023-1935. ISSN (electronic): 1608-3342.
- 1416.** L. Vázquez-Gómez, S. Cattarin, N. Comisso, P. Guerriero, M. Musiani, E. Verlato, “Spontaneous deposition of Pd onto Fe-Cr-Al alloys”, *Electrochim. Acta*, 68, 114 (2012). ISSN: 0013-4686.
- 1417.** L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, A. Vaiciukevičienė, A. Selskis, V. Pakštas, “Self-ordered titania nanotubes and flat surfaces as a support for the deposition of nanostructured Au–Ni catalyst: Enhanced electrocatalytic oxidation of borohydride”, *J. Power Sources*, 202, 85 (2012). ISSN: 0378-7753.
- 1418.** P. Mathew, J. P. Meyers, R. Srivastava, P. Strasserc, “Analysis of Surface Oxidation on Pt and Pt Core-Shell Electrocatalysts for PEFCs”, *J. Electrochem. Soc.*, 159, B554 (2012). ISSN: 1945-7111 online. ISSN: 0013-4651 print.
- 1419.** L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, R. Čekavičiūtė, A. Selskis, “Investigation of Titanium Supported Nanostructured Au-Ni and Pt-Ni Thin Layers as Electrocatalysts for DBFC”, *J. Electrochem. Soc.*, 159 (5) B611 (2012). ISSN: 1945-7111 online. ISSN: 0013-4651 print.

- 1420.** Y. Kitatsuji, T. Kimura, S. Kihara, “Flow electrolysis of U, Np and Pu ions utilizing electrocatalysis at a column electrode with platinized glassy carbon fiber working electrode“, *Electrochim. Acta*, 74, 215 (2012) ISSN: 0013-4686.
- 1421.** B. I. Podlovchenko, V. A. Krivchenko, Yu. M. Maksimov, T. D. Gladysheva, L. V. Yashina, S. A. Evlashin, A. A. Pilevsky, “Specific Features of the Formation of Pt(Cu) Catalysts by Galvanic Displacement with Carbon Nanowalls used as Support”, *Electrochimica Acta*, 76, 137 (2012). ISSN: 0013-4686.
- 1422.** S. Fiameni, I. Herraiz-Cardona, M. Musiani, V. Pérez-Herranz, L. Vázquez-Gómez, E. Verlato, “The HER in alkaline media on Pt-modified three-dimensional Ni cathodes”, *Internat. J. Hydrogen Ener.*, 37, 10507 (2012). ISSN: 0360-3199.
- 1423.** B. I. Podlovchenko, T. D. Gladysheva, V. A. Krivchenko, Y. M. Maksimov, A. Y. Filatov, L. V. Yashina, “Effect of Copper Deposit Morphology on the Characteristics of a Pt(Cu)/C-Catalyst Obtained by Galvanic Displacement”, *Mendeleev Communications*, 22 (4), 203 (2012). ISSN: 0959-9436.
- 1424.** A. W. Maijenburg, A. George, D. Samal, M. Nijland, R. Besselink, B. Kuiper, J. E. Kleibeuker, J. E. ten Elshof, “Electrodeposition of micropatterned Ni|Pt multilayers and segmented Ni|Pt|Ni nanowires”, *Electrochim. Acta*, 81, 123 (2012). ISSN: 0013-4686.
- 1425.** A. L. Morais, J. R. C. Salgado, B. Šljukić, D. M. F. Santos, C. A. C. Sequeira, “Electrochemical behaviour of carbon supported Pt electrocatalysts for H₂O₂ reduction”, *Intern. J. Hydrogen Energy*, 37, 14143 (2012). ISSN: 0360-3199.
- 1426.** L. Chen, J. Hu, J. S. Foord, “Electrodeposition of a Pt–PrO_{2-x} electrocatalyst on diamond electrodes for the oxidation of methanol”, *Physica Status Solidi (a)*, 209, 1792 (2012). ISSN: 1862-6319.
- 1427.** X. Liu, X. Wang, P. He, L. Yi, Z. Liu, X. Yi, “Influence of borohydride concentration on the synthesized Au/graphene nanocomposites for direct borohydride fuel cell”, *J. Solid State Electrochem.*, 16, 3929 (2012). ISSN: 1432-8488 (Print) 1433-0768 (Online).
- 1428.** Y. Hu, P. Wu, H. Zhang, C. Cai, “Synthesis of graphene-supported hollow Pt-Ni nanocatalysts for highly active electrocatalysis toward the methanol oxidation reaction”, *Electrochim. Acta*, 85, 314 (2012). ISSN: 0013-4686.

- 1429.** S. Cimino, L. Lisi, G. Mancino, M. Musiani, L. Vázquez-Gómez, E. Verlato, „Catalytic partial oxidation of CH₄-H₂ mixtures over Ni foams modified with Rh and Pt”, *Intern. J. Hydrogen Energy*, 37, 17040 (2012). ISSN: 0360-3199.
- 1430.** L. Tamasauskaitė-Tamasiunaitė, A. Balčiunaitė, A. Vaiciukevičienė, A. Selskis, “Investigation of Electrocatalytic Activity of Titania Nanotube Supported Nanostructured Pt-Ni Catalyst Towards Methanol Oxidation”, *ECS Transactions*, 45 (2) 125 (2012). ISSN: 1938-6737.
- J. Georgieva, S. Armyanov, E. Valova, I. Poulios, S. Sotiropoulos, “Enhanced Photocatalytic Activity of Electrosynthesised Tungsten Trioxide-Titanium Dioxide Bi-Layer Coatings under Ultraviolet and Visible Light Illumination” *Electrochemistry Communications*, 9, 365–370 (2007) ISSN-13882481**
- 1431.** D. Tomova, V. Iliev, S. Rakovsky, M. Anachkov, A. Eliyas, G. Li Puma, “Photocatalytic oxidation of 2, 4, 6-trinitrotoluene in the presence of ozone under irradiation with UV and visible light”, *J. Photochem. & Photobiology A: Chemistry*, 231, 1 (2012). ISSN: 1010-6030
- 1432.** M. Li, G. Zhao, P. Li, Y. Zhang, M. Wu, “Photoelectrocatalytic properties of a vertically aligned Ti-W alloy oxide nanotubes array and its applications in dye wastewater degradation”, *Environmental Technology*, 33, 191 (2012). ISSN: 0959-3330
- 1433.** Z. Zhang, W. Wang, L. Wang, S. Sun, “Enhancement of visible light photocatalysis by coupling with narrow-band-gap semiconductor: A case study on Bi₂S₃/Bi₂WO₆”, *ACS Appl. Mater. Interfaces*, 4, 593 (2012). ISSN: 1944-8244 (Print) 1944-8252 (Electronic).
- 1434.** E. Grabowska, J. W., Sobczak, M. Gazda, A. Zaleska, “Surface properties and visible light activity of W-TiO₂ photocatalysts prepared by surface impregnation and sol-gel method”, *Applied Catalysis B: Environmental*, 117–118, 351 (2012). ISSN: 0926-3373.
- 1435.** Q. Chen, J. Li, B. Zhou, M. Long, H. Chen, Y. Liu, M. Long, W. Cai, W. Shangguan, “Preparation of Well-aligned WO₃ nanoflake arrays vertically grown on tungsten substrate as photoanode for photoelectrochemical water splitting”, *Electrochim. Commun.*, 20, 153-156 (2012). ISSN-1388 2481.
- 1436.** A. A. Ismail, D. W. Bahnemann, S. A. El-Sayari, “Synthesis and Photocatalytic Properties of Nanocrystalline Au, Pd and Pt Photodeposited onto Mesoporous RuO₂-TiO₂ Nanocomposites Original Research Article”, *Applied Catalysis A: General*, 431–432, 62 (2012). ISSN: 0926-860X.
- 1437.** Y. Li, X. Zhou, W. Chen, L. Li, M. Zen, S. Qin, S. Sun, “Photodecolorization of Rhodamine B on tungsten-doped TiO₂/activated carbon under visible-light irradiation”, *J. Hazardous Materials*, 227–228, 25 (2012). ISSN: 0304-3894.

- 1438.** G. Zhang, H. Huang, W. Li, F. Yu, H. Wu, L. Zhou, “Enhanced Photocatalytic Activity of CoO/TiO₂ Nanotube Composite”, *Electrochimica Acta*, 81, 117 (2012). ISSN: 0013-4686.
- 1439.** S. Stojadinović, N. Radić, R. Vasilić, M. Petković, P. Stefanov, Lj. Zeković, B. Grbić, „Photocatalytic properties of TiO₂/WO₃ coatings formed by plasma electrolytic oxidation of titanium in 12-tungstosilicic acid”, *Appl. Catal. B: Environm.*, 126, 334 (2012). ISSN: 0926-3373.
- 1440.** T. Berger, D. Monllor-Satoca, M. Jankulovska, T. Lana-Villarreal, R. Gómez, “The electrochemistry of nanostructured titanium dioxide electrodes”, *ChemPhysChem.*, 13, 2824 (2012). ISSN: 1439-7641.
- 1441.** M. Toyoda, T. Tsumura, B. Tryba, S. Mozia, M. Janus, A. W. Morawski, M. Inagaki, “Carbon Materials in Photocatalysis”, in “Chemistry & Physics of Carbon”, Ljubisa R. Radovic (Editor), vol. 31, October 03, 2012, 297 pages, CRC Press, Taylor & Francis Group, p. 260.
- 1442.** L. Sun, X. Zhao, C. Jia, Y. Zhou, X. Cheng, P. Li, L. Liu, W. Fan, “Enhanced visible-light photocatalytic activity of g-C₃N₄/ZnWO₄ by fabricating a heterojunction: investigation based on experimental and theoretical studies”, *J. Mater. Chem.*, 22, 23428 (2012). ISSN 0959-9428.
- 1443.** A. Šulčiūtė, E. Valatka, “Electrodeposition and Photoelectrocatalytic Activity of ZnO Films on AISI 304 Type Steel”, *Materials Science (Medžiagotyra)*, 18 (4) 318 (2012). ISSN 1392–1320.

J. Georgieva, S. Artyanov, “Electroless Deposition and Some properties of Ni-Cu-P and Ni-Sn-P Coatings, *Journal of Solid State Electrochemistry*, 11, 869-876 (2007). ISSN (Print): 1432-8488, ISSN (Online): 1433-0768

- 1444.** X. R. Wang, X. G. Hu, W. Y. Li, “Effect of Bath Compositions on the Properties of Electroless Ni-Cu-P Alloys on Aluminum”, *Applied Mechanics and Materials*, 117-119, 1276 (2012). ISSN: 1660-9336.
- 1445.** P. L. Cavallotti, L. Magagnin, “Influence of Added Elements on Electroless Ni-P”, Meeting Abstract #3312, Honolulu PRiME 2012, The Electrochemical Society. Print ISSN: 2151-2041, Online ISSN: 2151-2043

J. Georgieva, S. Artyanov, E. Valova, I. Poulios, S. Sotiropoulos, “Preparation and photoelectrochemical characterisation of electrosynthesised titanium dioxide deposits on stainless steel substrates”, *Electrochimica Acta*, 51, 2076–2087 (2006) ISSN: 0013-4686

- 1446.** Y.-K. Hsu, Y.-C. Chen, Y.-G. Lin, L.-C. Chen, K.-H. Chen, “Birnessite-type manganese oxides nanosheets with hole acceptor assisted

photoelectrochemical activity in response to visible light”, *J. Materials Chemistry*, 22, 2733 (2012). ISSN 0959-9428.

1447. D. Rathee, M. Kumar, S .K. Arya, M. Sharma, “Band gap and conductivity measurement of TiO₂ thin films deposited by sol-gel spin coating method”, *Key Engineering Materials*, 500, 273 (2012). ISSN: 1013-9826.
1448. E. J. Podlaha-Murphy, S. Lucatero, “Photocatalyst With Enhanced Stability For Hydrogen Production And Oxidative Reactions”, Patent Cooperation Treaty Application, March 2012, WO 20121037478.
1449. G. Alvarado-Tenorio, M. E. Rincón, J. C. Calva-Yáñez, M. Solís de la Fuente, “Transparent TiO₂ Photoanodes Based on Single Walled Carbon Nanotubes Electronic and Photonic Devices, and Systems”, *ECS J. Solid State Sci. Technol.*, 1, Q39 (2012). ISSN: 2162-8777 online. ISSN : 2162-8769 print.

J. Georgieva, S. Kawashima, S. Armyanov, E. Valova, A. Hubin, Y. Koyama, O. Steenhaut, J. Haydu, J.-L. Delplancke, Ts. Tsacheva, “Electroless Deposition of Ni-Sn-P and Ni-Sn-Cu-P Coatings”, *Journal of the Electrochemical Society*, 152 (11) C783-C788 (2005), ISSN: 0013-4651.

1450. X. J. Tian, Y. Zou, H. Y. Cui, “A Study of the Anti-Fouling Property of the Electroless Ni-P-Sn Coating”, *Advanced Materials Research*, 538-541, 218 (2012). ISSN: 1022-6680.

J. Georgieva, S. Armyanov, E. Valova, Ts. Tsacheva, I. Poulios, S. Sotiropoulos, “Photoelectrochemical behaviour of electrodeposited tungsten trioxide and electrosynthesised titanium dioxide single component and bilayer coatings on stainless steel substrates”, *Journal of the Electroanalytical Chemistry*, 585, 35–43 (2005). ISSN: 1945-7111 online. ISSN: 0013-4651 print.

1451. A. Šulčiūtė, E. Valatka, “Electrodeposition and Photoelectrocatalytic Activity of ZnO Films on AISI 304 Type Steel”, *Materials Science (Medžiagotyra)*, 18 (4) 318 (2012). ISSN 1392–1320.
1452. G. Zhang, H. Huang, W. Li, F. Yu, H. Wu, L. Zhou, “Enhanced Photocatalytic Activity of CoO/TiO₂ Nanotube Composite”, *Electrochimica Acta*, 81, 117 (2012). ISSN: 0013-4686.

S. Armyanov, E. Valova, A. Franquet, J. Dille, J.-L. Delplancke, A. Hubin, O. Steenhaut, D. Kovacheva, D. Tatchev, and Ts. Vassilev, “Crystalline and Amorphous Electroless Co-W-P Coatings”, *Journal of the Electrochemical Society*, 152 (9) C612-C619 (2005) ISSN: 1945-7111 online. ISSN: 0013-4651 print.

1453. A. Kumar, M. Kumar, D. Kumar, “Effect of composition on electroless deposited Ni-Co-P alloy thin films as a diffusion barrier for copper

metallization Original Research Article”, *Appl. Surf. Science*, 258, 7962 (2012). ISSN: 0169-4332

E. Valova, J. Dille, S. Artyanov, J. Georgieva, D. Tatchev, M. Marinov, J.-L. Delplancke, O. Steenhaut, A. Hubin, “Interface between electroless amorphous Ni-Cu-P coatings and Al substrate”, *Surface and Coatings Technology*, 190 (2-3) 336-344 (2005) ISSN: 0257-8972

1454. J. Li, X. Xue, A. Wang, A. Ma, Z. Fu, “Electroless Nickel Plating of Magnesium Alloy with Microarc Oxidation Pretreatment”, *J. Chinese Soc. Corr. & Protect.*, 32 (1) 23 (2012). ISSN: 1005-4537
1455. S. Ranganatha, T.V. Venkatesha, K. Vathsala, “Process and properties of electroless Ni-Cu-P-ZrO₂ nanocomposite coatings”, *Materials Research Bulletin*, 47, 635 (2012). ISSN: 0025-5408
1456. M. Hosseini Najafabadi, „Optimization of Nanostructured Black Electroless Ni-P Coating for Solar Absorber“ *Intern. J. Modern Physics: Conf. Series*, 5, 670 (2012), 2nd Intern. Conf. on Ultrafine Grained & Nanostruct. Mater. (UFGNSM), World Scientific Publishing Company. Print ISSN: 2010-1945 Online ISSN: 2010-1945.
1457. X. J. Tian, Y. Zou, H. Y. Cui, “A Study of the Anti-Fouling Property of the Electroless Ni-P-Sn Coating”, *Advanced Materials Research*, 538-541, 218 (2012). ISSN: 1022-6680.
1458. J. Yu, Q. Qiao, D. Niu, Q. Jia, D. Wang, R. Liu, “Determination of activation energy for crystallizations in Ni–Cu–P amorphous alloys”, *Phase Transitions: A Multinat. J.*, 85, 761, (2012). ISSN: 0141-1594

E. Valova, S. Artyanov, A. Franquet, A. Hubin, O. Steenhaut, J.-L. Delplancke, and J. Vereecken, “Electroless Deposited Ni-Re-P, Ni-W-P and Ni-Re-W-P Alloys”, *Journal of Applied Electrochemistry*, 31 (12) 1367-1372 (2001) ISSN: 0021-891X (Print) 1572-8838 (Online)

1459. S. Ranganatha, T. V. Venkatesha, “Studies on the preparation and properties of electroless Ni–W–P alloy coatings and its nano-MoS₂ composite”, *Phys. Scr.*, 85, 035601 (2012). ISSN 0031-8949.
1460. S. Ranganatha, T.V. Venkatesha, K. Vathsala, “Process and properties of electroless Ni-Cu-P-ZrO₂ nanocomposite coatings”, *Materials Research Bulletin*, 47, 635 (2012). ISSN: 0025-5408.
1461. S. Ranganatha, T.V. Venkatesha, K. Vathsala, “Electroless Ni-W-P coatings and its nano-WS₂ composite: Preparation and properties”, *Ind. Eng. Chem. Res.*, 51, 7932 (2012). ISSN (printed): 0888-5885. ISSN (electronic): 1520-5045.

E. Valova, S. Armyanov, A. Franquet, O. Steenhaut, A. Hubin, J. Vereecken, and J.-L. Delplancke, “Incorporation of Zinc in Electroless Deposited Nickel-Phosphorus Alloys. II. Compositional Variations through Alloy Coating Thickness”, *Journal of the Electrochemical Society*, 148 (4) C274-C279 (2001) ISSN: 1945-7111 online. ISSN: 0013-4651 print.

- 1462.** P. L. Cavallotti, L. Magagnin, “Influence of Added Elements on Electroless Ni-P”, ECS Meeting Abstract #3312, Honolulu PRIME 2012. Print ISSN: 2151-2041, Online ISSN: 2151-2043.

E. Valova, I. Georgiev, S. Armyanov, J.-L. Delplancke D. Tachev, Ts. Tsacheva, J. Dille, “Incorporation of Zinc in Electroless Deposited Nickel-Phosphorus Alloys. I. A Comparative Study of Ni-P and Ni-Zn-P Coatings Deposition, Structure and Composition”, *Journal of the Electrochemical Society*, 148 (4) C266-C273 (2001) ISSN: 1945-7111 online. ISSN: 0013-4651 print.

- 1463.** H. Liu, R. X. Guo, Y. Liu, G. E. Thompson, Z. Liu, “The effect of processing gas on corrosion performance of electroless Ni-W-P coatings treated by laser”, *Surf. Coat. Technol.*, 206, 3350 (2012). ISSN: 0257-8972.

- 1464.** P. L. Cavallotti, L. Magagnin, “Influence of Added Elements on Electroless Ni-P”, ECS Meeting Abstract #3312, Honolulu PRIME 2012. Print ISSN: 2151-2041, Online ISSN: 2151-2043.

S. Armyanov, Crystallographic structure and magnetic properties of electrodeposited cobalt and cobalt alloys, *Electricchimica Acta* 45 (2000) ISSN: 0013-4686

- 1465.** W. Szmaja, W. Kozłowski, K. Polański, J. Balcerki, M. Cichomski, J. Grobelny, M. Zieliński, E. Miękoś, “Study of the morphological and magnetic structures of nanocrystalline cobalt films obtained by electrodeposition”, *Mater. Chem. Phys.*, 132, 1060 (2012). ISSN: 0254-0584.

- 1466.** A. Franczak, A. Levesque, F. Bohr, J. Douglade, J.-P. Chopart, “Structural and morphological modifications of the Co-thin films caused by magnetic field and pH variation”, *Appl. Surf. Sci.*, 258, 8683 (2012). ISSN: 0169-4332.

- 1467.** W. Szmaja, W. Kozłowski, K. Polański, J. Balcerki, M. Cichomski, J. Grobelny, M. Zieliński, E. Miękoś, “Investigation of thick cobalt films electrodeposited on gold substrates”, *Chemical Physics Letters*, 542, 117 (2012). ISSN: 0009-2614.

- 1468.** I. Kosta, A. Vicenzo, C. Müller, M. Sarret, “Mixed Amorphous-Nanocrystalline Cobalt Phosphorous by Pulse Plating”, *Surf. Coat. Technol.*, 207, 443 (2012). ISSN: 0257-8972.

- 1469.** K. Mech, P. Żabiński, R. Kowalik, K. Fitzner, “Mixed Amorphous-Nanocrystalline Cobalt Phosphorous by Pulse Plating”, *Electrochim. Acta*, 81, 254 (2012). ISSN: 0013-4686.
- 1470.** K. M. Hyie, N. A. Resali, W. N. R. Abdullah, W.T. Chong, “Synthesis and Characterization of Nanocrystalline Pure Cobalt Coating: Effect of pH Original Research Article”, *Procedia Engineering*, 41, 1627 (2012). ISSN: 1877-7058.

D. Tachev, D. Iorgov, S. Armyanov, “Magnetothermal Investigation of Crystallization of Ni-P Amorphous Alloys”, *Journal of Non-Crystalline Solids*, 270 (1-3) 66-76 (2000) ISSN: 0022-3093.

- 1471.** H. R. Molla, H. Modarress, M. Abdouss, “Electroless nickel–phosphorus deposition on carbon steel CK-75 and study of the effects of some parameters on properties of the deposits”, *J. Coatings Technology & Research*, 9, 183 (2012). ISSN: 1547-0091.

S. Armyanov, J. Georgieva, D. Tachev, E. Valova, N. Nyagolova, S. Mehta, D. Leibman, A. Ruffini, “Electroless Deposition of Ni-Cu-P Alloys in Acidic Solutions”, *Electrochemical and Solid State Letters*, 2 (7) 323-325 (1999) ISSN: 1099-0062

- 1472.** S. Ranganatha, T.V. Venkatesha, K. Vathsala, “Process and properties of electroless Ni-Cu-P-ZrO₂ nanocomposite coatings”, *Materials Research Bulletin*, 47, 635 (2012). ISSN: 0025-5408.

S. Armyanov, S. Vitkova, and O. Blajiev, "Internal Stress and Magnetic Properties of Electrodeposited Amorphous Fe-P Alloys", *Journal of Applied Electrochemistry*, 27 (2) 185-191 (1997) ISSN: 0021-891X (Print) 1572-8838 (Online)

- 1473.** H. Thomas, R. Heide, A. Terfort, “Thin Film Reference Electrodes for Aqueous and Organic Media”, *Sensors and Actuators B: Chemical*, 171–172, 155 (2012). ISSN 0925-4005.

S. Armyanov, O. Steenhaut, N. Krasteva, J. Georgieva, J.-L. Delplancke, R. Winand, J. Vereecken, “AES Elements Profiles and Interface with the Substrate of Electroless Deposited Ternary Alloys”, *Journal of the Electrochemical Society*, 143, 3692-3698 (1996) ISSN: 1945-7111 online. ISSN: 0013-4651 print.

- 1474.** T. Anik, M. Ebn Touhami, K. Himm, S. Schireen, R. A. Belkhmima, M. Abouchane, M. Cissé, “Influence of pH Solution on Electroless Copper Plating Using Sodium Hypophosphate as Reducing Agent” *Int. J. Electrochem. Sci.*, 7, 2009 (2012). ISSN 1452-3981.

- 1475.** H. Liu, R.X. Guo, Y. Liu, G. E. Thompson, Z. Liu, “The effect of processing gas on corrosion performance of electroless Ni-W-P coatings treated by laser

Original Research Article”, *Surf. Coat. Technol.*, 206, 3350 (2012). ISSN: 0257-8972.

- 1476.** A. S. Hamdy, M. A. Shoeib, H. Hady, “The effect of grain refining and phosphides formation on the performance of advanced nanocomposite and ternary alloy coatings on steel”, *Materials Letters*, 80, 191 (2012). ISSN: 0167-577X.
- 1477.** X. L.Yuan, J. Gao; Z. F. Z. F. Yang, Z. X. Wang, Z. L. Wang, “New electroless copper plating bath using sodium hypophosphite as reductant”, *Surface Engineering*, 28 (5) 377-381 (2012). Print ISSN 0267-0844, Online ISSN: 1743-2944.

E. Valova, S. Armyanov, J.-L. Delplancke, O. Steenhaut, R. Winand, J. Vereecken, “Interface with the Substrate of High Phosphorus Electroless NiP and NiCuP Deposited from Non-ammonia Alkaline Solutions”, *Journal of the Electrochemical Society*, 143, 2804-2815 (1996) ISSN: 1945-7111 online. ISSN: 0013-4651 print.

- 1478.** T. Anik, M. Ebn Touhami, K. Himm, S. Schireen, R. A. Belkhmima, M. Abouchane, M. Cissé, “Influence of pH Solution on Electroless Copper Plating Using Sodium Hypophosphite as Reducing Agent” *Int. J. Electrochem. Sci.*, 7, 2009 (2012). ISSN 1452-3981.
- 1479.** X. L.Yuan, J. Gao; Z. F. Z. F. Yang, Z. X. Wang, Z. L. Wang, “New electroless copper plating bath using sodium hypophosphite as reductant”, *Surface Engineering*, 28 (5) 377-381 (2012). Print ISSN 0267-0844, Online ISSN: 1743-2944.

N. Krasteva, S. Armyanov, J. Georgieva, N. Avramova, and V. Fotti, “Thermal Stability of Electroless NiMeP Amorphous Alloys”, *Journal of Electronic Materials*, 24, (8) 941-946 (1995) ISSN: 0361-5235

- 1480.** J. N. Balaraju, Kalavati, N. T. Manikandanath, V. K. William Grips, “Phase transformation behavior of nanocrystalline Ni–W–P alloys containing various W and P contents”, *Surf. Coat. Technol.*, 206, 2682 (2012). ISSN: 0257-8972.

N. Krasteva, V. Fotty, and S. Armyanov, “Thermal Stability of Ni-P and Ni-Cu-P Amorphous Alloys”, *Journal of the Electrochemical Society*, 141, 2864-2867 (1994) ISSN: 1945-7111 online. ISSN: 0013-4651 print.

- 1481.** C.-K. Lee, “Electroless Ni-Cu-P/ nano-graphite composite coatings for bipolar plates of Proton exchange membrane fuel cells”, *J. Power Sources*, 220, 130 (2012). ISSN: 0378-7753.

S. Armyanov and G. Sotirova-Chakarova, “Hydrogen Desorption and Internal Stress in Nickel Coatings, Obtained by Periodic Electrodeposition”, *Journal of the Electrochemical Society*, 139, 3454-3457 (1992) ISSN: 1945-7111 online. ISSN: 0013-4651 print.

1482. V. C. Nguyen, C. Y. Lee, F. J. Chen, C. S. Lin, T. Y. Liu, “Study on the internal stress of nickel coating electrodeposited in an electrolyte mixed with supercritical carbon dioxide”, *Surf. Coat. Technol.*, 206, 3201 (2012). ISSN: 0257-8972.
1483. T. D. Ziebell, C. A. Schuh, “Residual stress in electrodeposited nanocrystalline nickel-tungsten coatings”, *J. Materials Research*, 27, 1271 (2012). ISSN 0884-2914.
1484. V. C. Nguyen, C. Y. Lee, L. Chang, F. J. Chen, C. S. Lin, “The Relationship between Nano Crystallite Structure and Internal Stress in Ni Coatings Electrodeposited by Watts Bath Electrolyte Mixed with Supercritical CO₂”, *J. Electrochem. Soc.*, 159, D393 (2012). ISSN: 1945-7111 online. ISSN: 0013-4651 print.
1485. Yun-Feng Chang, “Process Development and Tribological Research of Ni-W Based Coatings Produced by Electrodeposition”, National Defense University Institute of Technology, PhD Dissertation, 2012, Taipei, Taiwan.
1486. Van Cuong Nguyen, “Study on the mechanical properties of nickel coating electrodeposited in electrolyte mixed with supercritical carbon dioxide”, PhD Dissertation, 2012-07-10, Institute of Electrical Technology, National Taipei University of Technology, Taiwan.

G. Sotirova-Chakarova and S. Armyanov, “The Internal Stress in Ni, NiFe, CoFe, and CoNi Layers Measured by Bent Strip Method”, *Journal of the Electrochemical Society*, 137, 3551-3558 (1990). ISSN: 1945-7111 online. ISSN: 0013-4651 print.

1487. T. D. Ziebell, C. A. Schuh, “Residual stress in electrodeposited nanocrystalline nickel-tungsten coatings”, *J. Materials Research*, 27, 1271 (2012). ISSN 0884-2914.

G. Sotirova, S. Sarnev, S. Armyanov, “Evolution of the Included Hydrogen, Internal Stress, Microhardness and Microstructure of Electrodeposited Cobalt”, *Electrochimica Acta*, 34, 1237-1242 (1989). ISSN: 0013-4686.

1488. D. Kumar Singh, V. B. Singh, “Electrodeposition and characterization of Ni-TiC composite using N-methylformamide bath”, *Materials Science and Engineering: A*, 532, 493 (2012). ISSN: 0921-5093.
1489. I. Krastev, T. Dobrovolska, U. Lačnjevac, S. Nineva, “Pattern formation during electrodeposition of indium–cobalt alloys”, *J. Solid State Electrochem.*, 16, 3449 (2012). ISSN: 1432-8488 (Print) 1433-0768 (Online).

- 1490.** J. W. Shin, C. Hangarter, U. Bertocci, Y. Liu, T. P. Moffat, G. R. Stafford, “In Situ Stress Measurement during Electrodeposition Ni_xPt_{1-x} Alloys”, *J. Electrochem. Soc.*, 159, D479 (2012). ISSN: 1945-7111 online. ISSN: 0013-4651 print.

S. Armyanov, G. Sotirova, “Diffusion-Elastic Phenomena in Nickel and Cobalt Electrodeposits Plated onto Strip Cathode”, *Surface and Coatings Technology*, 34, 441-454 (1988). ISSN: 0257-8972.

- 1491.** J. W. Shin, C. Hangarter, U. Bertocci, Y. Liu, T. P. Moffat, G. R. Stafford, “In Situ Stress Measurement during Electrodeposition Ni_xPt_{1-x} Alloys”, *J. Electrochem. Soc.*, 159, D479 (2012). ISSN: 1945-7111 online. ISSN: 0013-4651 print.

S. Armyanov, T. Vangelova, and R. Stoyanchev, “Pretreatment of Al-Mg Alloys for Electrodeposition by Immersion Zinc and Electroless Nickel”, *Surface Technology*, 17, 89-100 (1982) ISSN: 0257-8972.

- 1492.** X. B. Chen, H. Y. Yang, T. B. Abbott, M. A. Easton, N. Birbilis, “Corrosion-Resistant Electrochemical Platings on Magnesium Alloys: A State-of-the-Art Review”, *Corrosion*, 68, 518 (2012). ISSN: 0010-9312.

S. A. Armyanov, S. D. Vitkova, “Structure and Magnetic Properties of Electrodeposited Cobalt”, *Surface Technology*, 7, 319-329 (1978), ISSN: 0257-8972.

- 1493.** A. Franczak, A. Levesque, F. Bohr, J. Douglade, J.-P. Chopart, “Structural and morphological modifications of the Co-thin films caused by magnetic field and pH variation”, *Appl. Surf. Sci.*, 258, 8683 (2012). ISSN: 0169-4332.

S. Armyanov, “Relations between the Magnetic Properties and Structure of the Electrodeposited Cobalt”, 28 International Society of Electrochemistry Meeting, *ElectrocrySTALLization, Varna, Druzhba, September 19-23 1977, Extended Abstracts*, v. I, pp. 396-405

- 1494.** И. Г. Жихарева, В. Шмидт, Ю. Пахаруков, А. Ракашов, „Поверхностная структура магнитных сплавов кобальт-марганец”, *Вестник Тюменского государственного университета, Химия*, 5, 39 (2012). ISSN 1562-2983.

M. Uzunova, M. Kostadinov, J. Georgieva, C. Dushkin, D. Todorovski, N. Philippidis, I. Poulios, S. Sotiropoulos, Photoelectrochemical characterisation and photocatalytic activity of composite La₂O₃-TiO₂ coatings on stainless steel, *Applied Catalysis B: Environmental*, 73 (1-2), (2007), pp. 23-33, ISSN: 0926-3373.

- 1495.** Tang, W., Wang, Q., Zeng, X., Chen, X., Photocatalytic degradation on Disperse Blue with modified nano-TiO₂ film electrode, *Journal of Solid State Electrochemistry*, 16 (4), (2012), pp. 1429-1445, ISSN: 1432-8488.

- 1496.** Wang, W.-F., Hu, C.-L., Chang, M.-Y., Hsieh, Y.-H., Preparation and photocatalytic activity of sol-gel method derived La doped TiO₂ / ITO photocatalytic electrodes, Advanced Materials Research, 452-453, (2012), pp. 486-490, ISSN: 1022-6680.
- 1497.** Zheng, H., Dai, Q., Wang, J., Chen, J., Preparation and electro-catalytic characterization of rare earth La-PTFE co-doped lead dioxide electrodes, Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae, 32 (2), (2012), pp. 282-291, ISSN: 0253-2468.

Harizanova R., Gugov I., Russel C., Tatchev D., Raghuwanshi V.S., Hoell A. Crystallization of (Fe, Mn)-based nanoparticles in sodium-silicate glasses (2011) Journal of Materials Science, 46 (22) , pp. 7169-7176 ISSN: 0361-5235.

- 1498.** Edelman, I., Ivanova, O., Ivantsov, R., Velikanov, D., Zabluda, V., Zubavichus, Y., Veligzhanin, A., Zaikovskiy, V., Stepanov, S., Artemenko, A., Curély, J., Kliava, "Magnetic nanoparticles formed in glasses co-doped with iron and larger radius elements" Journal of Applied Physics 112, (2012), Article number 084331. ISSN 1089-7550
- 1499.** Edelman, I., Ivanova, O., Ivantsov, R., Petrakovskaja, E., Velikanov, D., Zabluda, V., Hennet, L., Thiaudière, D., Saboungi, M.-L., Zubavichus, Y., Stepanov, S., Zaikovskii, V., Artemenko, A., Kliava, J. "Nanoparticle-containing glasses co-doped with transition and rare earth elements: Comparative studies of transparent magnets" , Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B, 53 (2012) 37-44 . ISSN 0031-9090

Tatchev D., Hoell A., Eichelbaum M., Rademann K. X-ray-assisted formation of gold nanoparticles in soda lime silicate glass: Suppressed Ostwald ripening (2011) Physical Review Letters, 106 (8) , art. no. 085702 ISSN (printed): 0031-9007.

- 1500.** Marmiroli, B., Amenitsch, H. X-ray lithography and small-angle X-ray scattering: A combination of techniques merging biology and materials science, European Biophysics Journal, 41 (2012) 851-861. ISSN: 1432-1017
- 1501.** Goerigk, G. , Huber, K., Mattern, N., Williamson, D.L. „Quantitative anomalous small-angle X-ray scattering - The determination of chemical concentrations in nano-scaled phases" European Physical Journal: Special Topics, 208(2012) 259-274. ISSN: 1951-6355

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 (2010) Journal of the American Chemical Society, 132 (10) , pp. 3621-3627 ISSN 0002-7863

- 1502.** Rakshit, T., Mukhopadhyay, R. „Solid-state electron transport in Mn-, Co-, holo-, and Cu-ferritins: Force-induced modulation is inversely linked to the protein conductivity”, Journal of Colloid and Interface Science, 388, (2012) 282-292 ISSN: 0021-9797
- 1503.** Van Rijn, P., Mougin, N.C., Böker, A., „Hierarchical structures via self-assembling protein-polymer hybrid building blocks”, Polymer (United Kingdom) 53, (2012), 6045-6052. ISSN: 0032-3861
- 1504.** Li, T., Chattopadhyay, S., Shibata, T., Cook, R.E., Miller, J.T., Suthiwangcharoen, N., Lee, S., Winans, R.E., Lee, B. „Synthesis and characterization of Au-core Ag-shell nanoparticles from unmodified apoferritin”, (2012) Journal of Materials Chemistry, 22, 14458-14464. ISSN: 0959-9428.
- 1505.** Suzumoto, Y., Okuda, M., Yamashita, I. „Fabrication of zinc oxide semiconductor nanoparticles in the apoferritin cavity” (2012), Crystal Growth and Design 12 (8) , pp. 4130-4134. ISSN 1528-7483
- 1506.** Hall, D., Huang, L. „On the use of size exclusion chromatography for the resolution of mixed amyloid aggregate distributions: I. Equilibrium partition models”, (2012) Analytical Biochemistry 426 (1) , pp. 69-85 ISSN: 0003-2697

Kasyutich O., Tatchev D., Hoell A., Ogrin F., Dewhurst C., Schwarzacher W. Small angle x-ray and neutron scattering study of disordered and three dimensional-ordered magnetic protein arrays (2009) Journal of Applied Physics, 105 (7) , art. no. 07B528 ISSN 1089-7550

- 1507.** Okuda, M., Eloi, J.-C., Ward Jones, S.E., Sarua, A., Richardson, R.M., Schwarzacher, W. Fe₃O₄ nanoparticles: Protein-mediated crystalline magnetic superstructures (2012) Nanotechnology, 23 (41), art. no. 415601
- 1508.** Mamica, S., Krawczyk, M., Sokolovskyy, M.L., Romero-Vivas, J. Large magnonic band gaps and spectra evolution in three-dimensional magnonic crystals based on magnetoferititn nanoparticles (2012) Physical Review B - Condensed Matter and Materials Physics, 86 (14), art. no. 144402, ISSN 1098-0121.
- 1509.** Montoncello, F., Giovannini, L., Krawczyk, M. Spin wave localization and softening in rod-shaped magnonic crystals with different terminations (2012) Journal of Applied Physics, 112 (3), art. no. 033911, ISSN 1089-7550.
- 1510.** Mitróová, Z., Melníková, L., Kováč, J., Timko, M., Kopčanský, P. Synthesis and characterization of magnetoferititn (2012) Acta Physica Polonica A, 121 (5-6), pp. 1318-1320. ISSN: 0587-4246

Tatchev D. Structure analysis of multiphase systems by anomalous small-angle X-ray scattering (2008) Philosophical Magazine, 88 (12) , pp. 1751-1772 ISSN: 0031-8086.

- 1511.** Vainio, U., Lauten, R.A., Haas, S., Svedström, K., Veiga, L.S.I., Hoell, A., Serimaa, R. Distribution of counterions around lignosulfonate macromolecules in different polar solvent mixtures (2012) Langmuir, 28 (5), pp. 2465-2475 ISSN 0743-7463

Eichelbaum M., Rademann K., Hoell A., Tatchev D.M., Weigel W., Stosser R., Pacchioni G. Photoluminescence of atomic gold and silver particles in soda-lime silicate glasses, (2008) Nanotechnology, 19 (13) , art. no. 135701

- 1512.** Wei, R., Li, J., Gao, J., Guo, H. Enhancement of Eu 3+ luminescence by Ag species (Ag NPs, ML- Ag, Ag +) in oxyfluoride glasses (2012) Journal of the American Ceramic Society, 95 (11), pp. 3380-3382. ISSN: 1551-2916
- 1513.** Marmiroli, B., Amenitsch, H. X-ray lithography and small-angle X-ray scattering: A combination of techniques merging biology and materials science (2012) European Biophysics Journal, 41 (10), pp. 851-861. ISSN: 0175-7571
- 1514.** Zheng, J., Zhou, C., Yu, M., Liu, J. Different sized luminescent gold nanoparticles (2012) Nanoscale, 4 (14), pp. 4073-4083. ISSN 2040-3364
- 1515.** Li, J.J., Wei, R.F., Liu, X.Y., Guo, H. Enhanced luminescence via energy transfer from Ag + to RE ions (Dy 3+, Sm 3+, Tb 3+) in glasses (2012) Optics Express, 20 (9), pp. 10122-10127. ISSN: 1094-4087
- 1516.** Li, J.J., Chen, J.D., Wei, R.F., Guo, H. Combined white luminescence from Eu 3+, ML - Ag particles and Ag + in Ag-Eu 3+ Co-doped H 3BO 3-BaF 2 glasses (2012) Journal of the American Ceramic Society, 95 (4), pp. 1208-1211. ISSN: 1551-2916
- 1517.** Kuznetsov, A.S., Cuong, N.T., Tikhomirov, V.K., Jivanescu, M., Stesmans, A., Chibotaru, L.F., Velázquez, J.J., Rodríguez, V.D., Kirilenko, D., Van Tendeloo, G., Moshchalkov, V.V. Effect of heat-treatment on luminescence and structure of Ag nanoclusters doped oxyfluoride glasses and implication for fiber drawing (2012) Optical Materials, 34 (4), pp. 616-621. ISSN: 0925-3467

Tatchev D., Kranold R. Maximum-entropy method as a routine tool for determination of particle size distributions by small-angle scattering (2004) Journal of Applied Crystallography, 37 (1) , pp. 32-39. ISSN (printed): 0021-8898

- 1518.** Botet, R., Cabane, B. Simple inversion formula for the small-angle X-ray scattering intensity from polydisperse systems of spheres (2012) Journal of Applied Crystallography, 45 (3), pp. 406-416. ISSN: 1600-5767

- 1519.** De Geuser, F., Deschamps, A. Precipitate characterisation in metallic systems by small-angle X-ray or neutron scattering (2012) Comptes Rendus Physique, 13 (3), pp. 246-256. ISSN: 1631-0705

J. Haug, H. Kruth, M. Dubiel, H. Hofmeister, S. Haas, D. Tatchev and A. Hoell, ASAXS study on the formation of core-shell Ag/Au nanoparticles in glasses (2009), Nanotechnology 20, 505705 ISSN: 1361-6528

- 1520.** P. Andreazza, H. Khelfane, O. Lyon, C. Andreazza-Vignolle, A.Y. Ramos, M. Samah, „Trends in anomalous small-angle X-ray scattering in grazing incidence for supported nanoalloyed and core-shell metallic nanoparticles” Eur. Phys. J. Special Topics 208, 231–244 (2012) ISSN: 1951-6355
- 1521.** Raghuwanshi V.S „Anomalous small angle X-ray scattering (ASAXS) analysis of nanocrystals in glass ceramics: structure and composition” PhD Thesis, Technical University Berlin, 2012

A. Hoell, D. Tatchev, S. Haas, J. Haug and P. Boesecke, On the determination of partial structure functions in small-angle scattering exemplified by Al89Ni6La5 alloy (2009), J. App. Cryst. 42, 323-325 ISSN (printed): 0021-8898

- 1522.** Raghuwanshi V.S „Anomalous small angle X-ray scattering (ASAXS) analysis of nanocrystals in glass ceramics: structure and composition” PhD Thesis, Technical University Berlin, 2012

D. Tatchev, A. Hoell, R Kranold and S. Artyanov, Size distribution and composition of magnetic precipitate in amorphous Ni-P alloy (2005), Physica B 369, 8-19 ISSN: 0921-4526

- 1523.** Raghuwanshi V.S „Anomalous small angle X-ray scattering (ASAXS) analysis of nanocrystals in glass ceramics: structure and composition” PhD Thesis, Technical University Berlin, 2012

D. Tatchev, Multiphase approximation for small-angle scattering (2010), J. Appl. Cryst. 43, 8-11 ISSN (printed): 0021-8898

- 1524.** Raghuwanshi V.S „Anomalous small angle X-ray scattering (ASAXS) analysis of nanocrystals in glass ceramics: structure and composition” PhD Thesis, Technical University Berlin, 2012

Ts. Radeva, Ed., Physical Chemistry of Polyelectrolytes, Surf. Series, Vol. 99, Marcel Dekker, New York, 2001, p. 882, ISBN: 0-8247-0463-0.

- 1525.** Z. Yang, B. Yuan, X. Huang, J. Zhou, J. Cai, H. Yang, A. Li, R. Cheng, Evaluation of the flocculation performance of carboxymethyl chitosan-graft-

polyacrylamide, a novel amphoteric chemically bounded composite flocculant, Water Research 46 (1), (2012), pp. 107-114. ISSN: 0043-1354

1526. Y. Xiao, K.Y. Mya, B.H. Tan, C.B. He, Star-branched cationic light-emitting dot with silsesquioxane core, synthesis, and light scattering studies, Polymer Bulletin 68 (8), (2012), pp. 2131-2144. ISSN: 0170-0839
1527. E.M. Tuite, D.B. Rose, P.M. Ennis, J.M. Kelly, Influence of polystyrenesulfonate on electron transfer quenching of ruthenium trisbipyridine luminescence by viologens: Non-covalent assembly and covalent tethering of the ruthenium complex, Phys. Chem. Chem. Phys. 14 (10), (2012), pp. 3681-3692. ISSN: 1463-9076
1528. A.S. Malinin, I.V. Kalashnikova, A.A. Rakhnyanskaya, A.A. Yaroslavov, Adsorption of cationic polymers on the surfaces of anionic glass microspheres, Polymer Science-Series A 54 (2), (2012), pp. 81-86. ISSN: 0965-545X
1529. H. Yang, Q. Zheng, R. Cheng, New insight into olyelectrolyte effect, Colloids Surfaces A 407, (2012), pp. 1-8. ISSN: 0927-7757.
1530. Z. Yang, Y. Shang, X. Huang, Y. Chen, Y. Lu, A. Chen, Y. Jiang, R. Cheng, Cationic content effects of biodegradable amphoteric chitosan-based flocculants on the flocculation properties, J. Environm. Sci. 24 (8), (2012), pp. 1378-1385. ISSN: 1001-0742
1531. D.K. Beaman, E.J. Robertson, G.L. Richmond, Metal ions: Driving the orderly assembly of polyelectrolytes at a hydrophobic surface, Langmuir 28 (40), (2012), pp. 14245-14253. ISSN: 0743-7463
1532. A. Popov, J. Zakharova, A. Wasserman, M. Motyakin, V. Kasaikin, Macromolecular and morphological evolution of poly(styrene sulfonate) complexes with tetradecyltrimethylammonium bromide, J. Phys. Chem. B., 116 (40), (2012), pp. 12332-12340. ISSN: 1520-6106

Ts. Radeva, V. Milkova, I. Petkanchin, Structure and electrical properties of polyelectrolyte multilayers formed on anisometric colloidal particles, J. Colloid Interface Sci. 244, (2001), pp. 24-30. ISSN: 0021-9797

1533. E. Eleftheriou, K. Karatasos, Modeling the formation of ordered nano-assemblies comprised by dendrimers and linear polyelectrolytes: The role of Coulombic interactions, J. Chem. Phys. 137 (14), (2012), art. no.144905. ISSN: 0021-9606

Ts. Radeva, V. Milkova, I. Petkanchin, Structure of polyelectrolyte layers on colloidal particles at different ionic strength, Colloids Surf. A 209, (2002), pp. 227-233. ISSN: 0927-7757.

- 1534.** A.S. Malinin, A.A. Rakhnyanskaya, A.A. Yaroslavov, 2D diffusion of macromolecules on glass microspheres, *Macromolecular Symposia* 316 (1), (2012), pp. 79-82. ISSN: 1022-1360.
- 1535.** B. Yin, T. Lui, Y. Yin, Prolonging the duration of preventing bacterial adhesion of nanosilver-containig polymer films through hyrdophobicity, *Langmuir* 28 (49), (2012), pp. 17019-17025. ISSN: 0743-7463

Ts. Radeva, M. Grozeva, In situ determination of thickness and electrical properties of multilayers from weak polyelectrolytes, J. Colloid Interface Sci., 287, (2005), pp. 415-421. ISSN: 0021-9797

- 1536.** F.C. Vasconcellos, R.A. Batagliolo, E.B. Flores, M.M. Beppu, Thermal treatment effects on biopolymer multilayered thin films, *Adv. Mater. Res.* 409, (2012), pp. 181-186. ISSN: 1022-6680

Ts. Radeva, K. Kamburova, I. Petkanchin, Formation of polyelectrolyte multilayers from polysaccharides at low ionic strength, J. Colloid Interface Sci., 298, (2006), 59-65. ISSN: 0021-9797

- 1537.** S. Sortino, Photoactivated nanomaterials for biomedical release applications, *J. Mater. Chem.* 22 (2), (2012), pp. 301-318. ISSN: 0959-9428
- 1538.** M.R. Kulterer, V.E. Reichel, R. Kargl, S. Köstler, V. Sarbova, T. Heinze, K. Stana-Kleinschek, V. Ribitsch, Functional polysaccharide composite nanoparticles from cellulose acetate and potential applications, *Adv. Funct. Mater.* 22 (8), (2012), pp. 1749-1758. ISSN: 1616-301X
- 1539.** D.S. Cocenza, M.A. De Moraes, M.M. Beppu, L.F. Fraceto, Use of biopolymeric membranes for adsorption of paraquat herbicide from water, *Water, Air, and Soil Pollution* 223 (6), (2012), pp. 3093-3104. ISSN: 0049-6979
- 1540.** C. Moreau, N. Beury, N. Delorme, B. Cathala, Tuning the architecture of cellulose nanocrystal-poly(allylamine hydrochloride) multilayerd thin films: Influence of dipping parameters, *Langmuir* 28 (28), (2012), pp. 10425-10436. ISSN: 0743-7463

V. Milkova, Ts. Radeva, Counterion release from adsorbed highly charged polyelectrolyte – an electro-optical study. J. Colloid Interface Sci. 298, (2006), pp. 550-555. ISSN: 0021-9797

- 1541.** A. Hajdu, M. Szekeres, I.Y. Toth, R.A. Bauer, J. Mihaly, I. Zupko, E. Tombacz, Enhanced stability of polyacrylate-coated magnetite nanoparticles in biorelevant media, *Colloids Surfaces B: Biointerfaces* 94 (1), (2012), pp. 242-249. ISSN: 0927-7765.

V. Milkova, K. Kamburova, I. Petkanchin, Ts. Radeva, Complexation of ferric oxide particles with pectins of different charge density, Langmuir, 24, (2008), pp. 9495-9499.
ISSN: 0743-7463.

- 1542.** T. Endres, M. Zheng, M. Beck-Broichsitter, O. Samsonova, H. Debus, T. Kissel, Optimising the self-assembly of siRNA loaded PEG-PCL-IPEI nano-carriers employing different preparation techniques, *J. Control. Release* 160 (3), (2012), pp. 583-591. ISSN: 0168-3659
- 1543.** S. Sennato, D. Truzzolillo, F. Bordi, Aggregation and stability of polyelectrolyte-decorated liposome complexes in water-salt media, *Soft Matter* 8 (36), (2012), pp. 9384-9395. ISSN: 1744-683X

H. Hoffmann, K. Kamburova, H. Maeda, Ts. Radeva, Investigation of pH dependence of poly (acrylic acid) conformation by means of electric birefringence, Colloids Surface A 354, (2010), pp. 61-64. ISSN: 0927-7757

- 1544.** A. Hajdu, M. Szekeres, I.Y. Toth, R.A. Bauer, J. Mihaly, I. Zupko, E. Tombacz, Enhanced stability of polyacrylate-coated magnetite nanoparticles in biorelevant media, *Colloids Surf. B: Biointerfaces* 94, (2012), pp. 242-249. ISSN: 0927-7765

V. Milkova, Ts. Radeva, The effect of ionic strength on electrical properties of polyelectrolyte multilayers on colloidal particles, J. Phys.: Condens. Matt. 22, (2010), 494107 (6pp.). ISSN: 0953-8984

- 1545.** Z.A. Khan, R. Kumar, J. Dutta, Multilayer thin films of colloidal gold and silica nanoparticles:Effect of polyelectrolyte coating, *Canadian Journal of Chemical Engineering* 90 (4), (2012), pp. 919-924. ISSN: 0008-4034

V. Milkova, K. Kamburova, Ts. Radeva, M. Stoimenova, Electrical properties of polyelectrolyte layers adsorbed on colloidal particles at different ionic strength, Langmuir 26 (18), (2010), pp. 14488-14493. ISSN: 07437463

- 1546.** Y. Furukawa, J.L. Watkins, Effect of organic matter on the flocculation of colloidal montmorillonite: A modelling approach, *J. Coastal research* 28 (3), (2012), pp. 726-737. ISSN: 0749-0208

D. Goveia, J. Paulo Pinheiro, V. Milkova, A. H. Rosa, H. P. van Leeuwen, Dynamics and heterogeneity of Pb(II) binding by SiO₂ nanoparticles in aqueous dispersion, Langmuir, 27, (2011), pp. 7877-7883. ISSN: 07437463

- 1547.** H. Pera, J.M., Kleijn, F.A.M., Leermakers, Interaction of silica nanoparticles with phospholipids membranes, *Chemistry Letters*, 41(10), (2012), pp. 1322-1324. ISSN: 0366-7022.

- 1548.** E. Rotureau, Dynamic speciation analysis of metal binding by heterogeneous particles: case of clay minerals, PD12, Book of abstracts, *Interfaces against*

pollution, 11-14 June 2012, Nancy, France, Session D: Environmental colloids and interfaces: properties, structure, reactivity.

A.M. Zhivkov, B.M.I. van der Zande, S.P. Stoylov, Electrooptics of metal particles: Electric birefringence of gold rods, Colloids and Surfaces A, 209, (2002), pp.299-303, 2002. ISSN: 0927-7757

1549. P. Zijlstra, M. van Stee, N. Verhart, Z. Gu, M. Orrit, Rotational diffusion and alignment of short gold nanorods in an external electric field, *Physical Chemistry Chemical Physics*, 14 (13), (2012), pp. 4584-4588, ISSN: 1463-9076 (print version), E-ISSN: 1463-9084 (electronic version).
1550. K.A. Stancheva, Noble metal nanoparticles, *Oxidation Communications*, 35 (3), (2012), pp. 662-673, ISSN: 0209-4541.

A.M. Zhivkov, S.P. Stoylov, Electro-optical characterization of aqueous laponite suspensions, Colloids and Surfaces A, 209, (2002), pp. 315-318, 2002. ISSN: 0927-7757

1551. M.L. Jiménez, L. Fornasari, F. Mantegazza, M.C.D. Mourad, T. Bellini, Electric birefringence of dispersions of platelets, *Langmuir* 28 (1), (2012), pp. 251-258, ISSN: 0743-7463 (print version), E-ISSN: 1520-5827 (print version).
1552. S.A. Klemeshev, M.P. Petrov, A.A. Trusov, V.V. Vojtylov, Electric field light scattering in aqueous suspensions of diamond and graphite, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 414, (2012), pp. 339-344, ISSN: 0927-7757.

A.M. Zhivkov, pH-dependence of electric light scattering by water suspension of purple membranes, Colloids and Surfaces A, 209, (2002), pp. 319-325. ISSN: 0927-7757

1553. S.A. Klemeshev, M.P. Petrov, A.A. Trusov, V.V. Vojtylov, Electric field light scattering in aqueous suspensions of diamond and graphite, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 414, (2012), pp. 339-344, ISSN: 0927-7757.

A.M. Zhivkov, Orientation-deformation electro-optical effect in water suspension of purple membranes, Colloids and Surfaces A, 209, (2002), pp. 327-332. ISSN: 0927-7757

1554. S.A. Klemeshev, M.P. Petrov, A.A. Trusov, V.V. Vojtylov, Electric field light scattering in aqueous suspensions of diamond and graphite, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 414, (2012), pp. 339-344, ISSN: 0927-7757.

A.M. Zhivkov, Geometry of purple membranes in aqueous medium, in: S.P. Stoylov, M.V. Stoimenova (Eds.), Molecular and Colloidal Electro-Optics, Taylor & Francis, New York, 2007, Chapter 14 (p. 327-365). ISBN: 0-8493-9811-8.

- 1555.** S.A. Klemeshev, M.P. Petrov, A.A. Trusov, V.V. Vojtylov, Electric field light scattering in aqueous suspensions of diamond and graphite, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 414, (2012), pp. 339-344, ISSN: 0927-7757.

A.M. Zhivkov, Dependence of depletion layer thickness on polymer concentration determined by Vincent's pragmatic and Donath's electrophoretic theories, J. Colloid and Interface Sci. 113, (2007), pp. 122-127, ISSN: 0021-9797

- 1556.** H.S. Eom, I.H. Park, Measurement of polymer chain depletion layer in the polyvinyl alcohol/dimethyl sulfoxide/polystyrene latex system by dynamic light scattering, *Polymer (Korea)*, 36 (5), (2012), pp. 628-636, ISSN: 0379-153X.

A.M. Zhivkov, R.P. Hristov, Polymer concentration dependence of kilohertz electric polarizability of alumina colloid particles with adsorbed carboxymethyl cellulose, J. Physics: Condensed Matter 22, (2010), 494112 (7 pp), ISSN: 0953-8984

- 1557.** S.A. Klemeshev, M.P. Petrov, A.A. Trusov, V.V. Vojtylov, Electric field light scattering in aqueous suspensions of diamond and graphite, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 414, (2012), pp. 339-344, ISSN: 0927-7757.

Z.I. Lalchev, R.K. Todorov, Y.Tz. Christova, P.J. Wilde, A.R. Mackie, D.C. Clark, Molecular mobility in the monolayers of foam films stabilized by porcine lung surfactant, Biophysical Journal, 71 (5), (1996), pp. 2591-2601, ISSN: 0006-3495.

- 1558.** A. Maestro, C. Kotsmar, A. Javadi, R. Miller, F. Ortega, R.G. Rubio, Adsorption of β -casein-surfactant mixed layers at the air-water interface evaluated by interfacial rheology, *Journal of Physical Chemistry B* 116 (16), (2012), pp. 4898-4907, ISSN: 1520-6106.

A. Jordanova, G.As. Georgiev, Sv. Alexandrov, R.K. Todorov, Z. Lalchev, Influence of surfactant protein C on the surface behavior of phosphatidylethanolamine monolayers, European Biophysics Journal 38 (4), (2009), pp. 369-379, ISSN: 0175-7571.

- 1559.** S.D. Petrova, V.N. Atanasov, K. Balashev, Vipoxin and its components: Structure-function relationship, *Advances in Protein Chemistry and Structural Biology* 87, (2012), pp. 117-153, ISSN: 1876-1623.

J. Zawala, R. Todorov, A. Olszewska, D. Exerowa, K. Malysa, Influence of pH of the BSA solutions on velocity of the rising bubbles and stability of the thin liquid films and foams, Adsorption 16 (4-5), (2010), pp. 423-435, ISSN: 0929-5607.

- 1560.** Zhang, Z., Li, G., Yan, F., Zheng, X., Li, X. Towards understanding of protein adsorption behavior on plasma polymerized pyrrole film, *Central European Journal of Chemistry* 10 (4), (2012), pp. 1157-1164, ISSN: 1895-1066.

L. Alexandrova, K. Hanumantha Rao, K. S. E. Forsberg, L. Grigorov, and R. J. Pugh, The Influence of Mixed Cationic-Anionic Surfactants on the Three-Phase Contact Parameters in Silica-Solution Systems, Colloid and Surfaces A, 373, (2011), pp. 145-151, ISSN: 0927-7775.

- 1561.** M. Rojewska, K. Proshaska, Adsorption properties of binary mixtures containig quaternary derivatives of lysosomotropic substances, *Colloid and Surfaces A*, 413, (2012), pp. 154-161, ISSN: 0927-7775.

M. Nedyalkov, L. Alexandrova, D. Platikanov, B. Levecke and Th. Tadros, Wetting properties of aqueous solutions of hydrophobically modified inulin polymeric surfactant, Colloid and Polymer Sci. 286 (6-7), (2008), pp. 713-719, ISSN: 0303-402X

- 1562.** M.A. El-Nabarawi, M.F. El-Miligi, I.A. Khalil, Optimization of class BCS drug using solid dispersion technique, *International Journal of Pharmacy and Pharmaceutical Sciences*, 4 (SUPPL.5), (2012), pp.554-571, ISSN: 0975-1491

M. Nedyalkov, L. Alexandrova, D. Platikanov, B. Levecke and Th. Tadros, Wetting films on a hydrophilic silica surface obtained from aqueous solutions of hydrophobically modified inulin polymeric surfactant, Colloid and Polymer Sci., 285, (15), (2007), pp. 1713-1717, ISSN: 0303-402X

- 1563.** J.L. Xu, D. Joguet, J. Cizek, K.A. Khor, H.L. Liao, C. Coddet, W.N. Chen, Syntesis and characterization on atomphospheric plasma sprayed amorphous silica doped hydrexoyapatite coatings, *Surface and Coating Technology*, 206 (22), (2012) pp. 4659-4665, ISSN: 0257-8972

B. Johansson, R. Pugh, L. Alexandrova, Flotation de-inking studies using model hydrophobic particles and non-ionic dispersants, Colloid and Surfaces A, 170, (2-3), (2000), pp. 217-229, ISSN: 0927-7775.

- 1564.** J. Behin, Deinking in bubble column and airlift reactors: Influence of wastewater of Merox unit as pulping liquor, *Chemical Engineering Research and Design*, 90 (8), (2012), pp. 1045-1051. ISSN: 0263-8762

L. Alexandrova, T. Nedialkova and I. Nishkov, Electroflotation of metal ions in waste water, Internation J. of Miner. Process., 41, (1994), pp. 285-294, ISSN: 0301-7516

- 1565.** T. Harif, M. Khai, A. Adin, Electrocoagulation versus chemical coagulation: Coagulation/flocculation mechanisms and resulting floc characteristics, *Water Research*, 46, (10), (2012), pp. 3177-3188. ISSN: 0043-1354

- 1566.** T. Kinoshita, S. Nii, Foam separation of metal ions and the potential “green” alternative to solvent extraction, *Solvent Extraction Research and Development, Japan*, 19, (2012), pp.1-15. ISSN: 13417215

B. Radoev, L. Alexandrova and S. Tschaljovska, On the kinetics of froth flotation, International J. Miner. Process., 28, (1990), pp. 127-138., ISSN:

- 1567.** M. Brozek, A. Mlynarczykowska, The distribution of air bubble size in the pneumo-mechanical flotation machine, Archives of mining sciences, 57 (3), (2012) pp. 729-740, ISSN: 0860-7001

L. Alexandrova, L. Grigorov, Precipitate and adsorbing colloid flotation of dissolved copper, lead and zinc ions, International J. Miner. Process., 48, (1996), pp.111-125, ISSN: 0301-7516

- 1568.** T. Kinoshita, S. Nii, Foam separation of metal ions and the potential “green” alternative to solvent extraction, Solvent Extraction Research and Development, Japan, 19, (2012), pp.1-15, ISSN: 13417215

N. Panchev, Khr. Khristov, J. Czarnecki, D. Exerowa, S. Bhattacharjee, J. Masliyah, A new method for water-in-oil emulsion film studies, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 315 (1-3), (2008), pp.74-78, ISSN: 0927-7757.

- 1569.** R. Gabrieli, G. Loglio, P. Pandolfini, A. Fabbri, M. Simoncini, V.I. Kovalchuk, B.A. Noskov, L. Liggieri, Spherical cap-shaped emulsion films: Thickness evaluation at the nanoscale level by the optical evanescent wave effect Colloids and Surfaces A: Physicochemical and Engineering Aspects 413, (2012), pp. 101-107, ISSN: 0927-7757

D. Exerowa, N.V. Churaev, T. Kolarov, N.E. Esipova, N. Panchev, Z.M. Zorin, Foam and wetting films: Electrostatic and steric stabilization, Advances in Colloid and Interface Science, 104 (1-3), (2003), pp. 1-24, ISSN: 0001-8686.

- 1570.** M. Corti, M. Bonomo, A. Raudino, New interferometric technique to evaluate the electric charge of gas bubbles in liquids, Langmuir 28 (14), (2012), pp. 6060-6066, ISSN: 0743-7463

- 1571.** X. Hu, Y. Li, X. He, C. Li, Z. Li, X. Cao, X. Xin, P. Somasundaran, Structure-behavior-property relationship study of surfactants as foam stabilizers explored by experimental and molecular simulation approaches, Journal of Physical Chemistry B 116 (1), (2012), pp. 160-167, ISSN: 1520-6106.

D. Arabadzhieva, P. Tchoukov, E. Mileva, R. Miller, B. Soklev, Impact of amphiphilic nanostructures on formation and rheology of adsorption layers and on foam film drainage, Ukr. J. Physics 58, pp. 801-810, (2011), ISSN 2071-0186.

- 1572.** M. Velinova, Y. Tsoneva, A. Ivanova, A. Tadjer, Estimation of the mutual orientation and intermolecular interaction of C 12E x from molecular dynamics simulations, Journal of Physical Chemistry B,116 (16), pp. 4879-4888, (2012), ISSN: 15206106.

1573. М. Велинова, Дисертация, катедра Физикохимия, Софийски университет, (2012).

1574. T Zahariev, A Ivanova, M Velinova, A Tadjer, Structure and Aggregation Proclivity of C12E3 in Aqueous Solution, Chemical Physics, in press – online available (2012), <http://dx.doi.org/10.1016/j.chemphys.2012.10.005>, ISSN: 0301-0104

Cs. Kotsmar, D. Arabadzhieva, Khr. Khristov, E. Mileva, D. O. Grigoriev, R. Miller, D. Exerowa, Adsorption layer and foam film properties of mixed solutions containing β -casein and C12DMPO, Elsevier, Food Hydrocolloids, 23, (2009), pp. 1169-1176, ISSN: 0268005X

1575. M., Dimitrijev-Dwyer, L. He, M. James, A. Nelson, L.Wang, A.P.J. Middelberg, The effects of acid hydrolysis on protein biosurfactant molecular, interfacial, and foam properties: PH responsive protein hydrolysates, Soft Matter 8 (19), (2012), pp. 5131-5139, ISSN: 1744683X

D. Arabadzhieva, E. Mileva, P. Tchoukov, R. Miller, F. Ravera, L. Liggieri, Adsorption layer properties and foam film drainage of aqueous solutions of tetraethyleneglycol monododecyl ether, Colloids Surf. A, 392, (2011), pp. 233-241, ISSN 0927-7757

1576. М. Велинова, Дисертация, катедра Физикохимия, Софийски университет, (2012).

T. Okubo, A. Tsuchida, M. Stoimenova, Electro-optic effects of colloidal crystals, Advances in Colloid and Interface Science, 162 (1-2), (2011), pp. 80-86, ISSN: 0001-8686

1577. C. Sun, Y. Yao, Z. Gu, Fabrication of elastic colloidal crystal films from pure soft spheres, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 402, (2012), pp.102-107, ISSN: ISSN 0927-7757.

M. Stoimenova, The universal electro-optic response of charged colloids in low electrolyte suspensions, Journal of Colloid and Interface Science, 323 (2), (2008), pp. 274-281, ISSN: 0021-9797

1578. V. Mikova, K. Kamburova, R. Cameron, Ts. Radeva, Complexation of ferric oxide particles with pectins of ordered and random distribution of charged units, Biomacromolecules, 13, (2012), pp. 138-145, ISSN: 1525-7797.

A.G. Dobrikova, M.I. Dimitrov, S.G. Taneva, I.B. Petkanchin, Protein-coated β -ferric hydrous oxide particles An electrokinetic and electrooptic study, Colloids and Surfaces B: Biointerfaces, 56, (2007), pp. 114-120, ISSN: 0927-7765.

1579. A. Qureshi, I. Roci, Y. Gurbuz, J.H. Niazi, An aptamer based competition assay for protein detection using CNT activated gold-interdigitated capacitor arrays, Biosensors and Bioelectronics, 34(1), (2012), pp. 165-170, ISSN: 0956-5663.

- 1580.** G. Shalev, Y. Rosenwaks, I. Levy, The interplay between pH sensitivity and label-free protein detection in immunologically modified nano-scaled field-effect transistor, *Biosensors and Bioelectronics*, 31(1), (2012), 510-515, ISSN: 0956-5663.

E.L. Apostolova, A.G. Dobrikova, P.I. Ivanova, I.B. Petkanchin, S.G. Taneva, Relationship between the organization of the PSII supercomplex and the functions of the photosynthetic apparatus, J. Photobiol. B, Biology, 83(2), (2006), pp. 114-122, ISSN: 1011-1344.

- 1581.** H. Hu, J. Zhang, X. Sun, K. Zheng, W. Hua, H. Liu, Vertical distribution of leaf chlorophyll fluorescence of salt sensitive and tolerant barley under NaCl stress, *Advanced Science Letters*, 11(1), (2012), pp. 734-737, ISSN: 1936-6612

E. Apostolova, S. Krumova, N. Tuparev, M.T. Molina, Ts. Filipova, I. Petkanchin, S.G. Taneva, Interaction of biological membranes with substituted 1,4-anthraquinones, Colloids and Surfaces B; Biointerfaces, 29, (2003), pp. 1-12, ISSN: 927-7765

- 1582.** H. Dave, L. Lewdani, A review on anthraquinones isolated from Cassia species and their applications, *Indian Journal of natural products and resources*, 3(3), (2012), pp. 291-319. ISSN: 09760504.

G. Gotchev, T. Kolarov, K. Khristov, D. Exerowa, Electrostatic and steric interactions in oil in-water emulsion films from Pluronic surfactants. Advances in Colloid and Interface Science, 168 (1-2), (2011), pp. 79-84, ISSN: 0001-8686

- 1583.** A. Seth, D.S. Katti, A one-step electrospray-based technique for modulating morphology and surface properties of poly(lactide-co-glycolide) microparticles using Pluronics®, *International Journal of Nanomedicine*, 7, (2012), pp. 5129-5136, ISSN: 07437463

- 1584.** P. Ramírez, A. Stocco, J. Muñoz, R. Miller, Interfacial rheology and conformations of triblock copolymers adsorbed onto the water-oil interface, *Journal of Colloid and Interface Science* 378 (1), (2012), pp. 135-143, ISSN: 07437463

- 1585.** O. Manor, T.T. Chau, G.W. Stevens, D.Y.C. Chan, F. Grieser, R.R. Dagastine, Polymeric stabilized emulsions: Steric effects and deformation in soft systems, *Langmuir* 28 (10), (2012), pp. 4599-4604, ISSN: 07437463

G. Gotchev, T. Kolarov, Khr. Khristov, D. Exerowa, 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 (1-3), (2010), pp. 56-60, ISSN: 0927-7757

- 1586.** P. Ramírez, A. Stocco, J. Muñoz, R. Miller, Interfacial rheology and conformations of triblock copolymers adsorbed onto the water-oil interface,

Journal of Colloid and Interface Science 378 (1), (2012), pp. 135-143, ISSN: 07437463

G. Gotchev, D. Exerowa, Kh. Khristov, B. Levecke, Th. Tadros, Stability of O/W emulsion films from mixed aqueous solutions of inulin-based polymeric and polyethylene glycol surfactants. Journal of Dispersion Science and Technology, 31 (1), (2010) pp. 31-37, ISSN: 0193-2691

- 1587.** M.A. El-Nabarawi, M.F. El-Miligi, I.A. Khalil, Optimization of class II BCS drug using solid dispersion technique, International Journal of Pharmacy and Pharmaceutical Sciences 4 (SUPPL. 5), (2012), pp. 554-571, ISSN: 09751491

D. Exerowa G. Gotchev, T. Kolarov, Khr. Kristov, B. Levecke, Th. Tadros, Comparison of oil-in-water emulsion films produced using ABA or ABn copolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 335 (1-3), (2009), pp. 50-54, ISSN: 0927-7757

- 1588.** P. Ramírez, A. Stocco, J. Muñoz, R. Miller, Interfacial rheology and conformations of triblock copolymers adsorbed onto the water-oil interface, Journal of Colloid and Interface Science 378 (1), (2012), pp. 135-143, ISSN: 07437463

D. Exerowa, G. Gotchev, T. Kolarov, Khr. Kristov, B. Levecke, Th. Tadros, Oil-in-water emulsion films stabilized by polymeric surfactants based on inulin with different degree of hydrophobic modification. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 334 (1-3), (2009), pp. 87-91, ISSN: 0927-7757

- 1589.** A.M. Elsharkawy, T.A. Al-Sahhaf, M.A. Fahim, Further Investigation into the Stability of Water-in-Crude Oil Emulsions Formed in Burgan Oilfield: Effect of Toluene, Resins to Asphaltenes Ratio, and Surfactant, Journal of Dispersion Science and Technology 33 (6), (2012), pp. 805-811, ISSN: 01932691

D. Exerowa, G. Gotchev, T. Kolarov, Khr. Kristov, Levecke B., Tadros Th., Interaction forces in thin liquid films stabilized by hydrophobically modified inulin polymeric surfactant. 2. Emulsion films. Langmuir, 23 (4), (2007), pp. 1711-1715, ISSN: 0743-7463

- 1590.** M. Reger, T. Sekine, H. Hoffmann, Boosting the stability of protein emulsions by the synergistic use of proteins and clays, Colloid and Polymer Science 290 (7), (2012), pp. 631-640, ISSN: 0303402X.

S.P. Stoylov, Colloid electro-optics: theory, techniques, application, Academic Press INC., San Diego, 1991, ISBN-13: 978-0126729658

- 1591.** S.A. Klemeshev, M.P. Petrov, A.A. Trusov, V.V. Vojtylov, Electric field light scattering in aqueous suspensions of diamond and graphiteColloids and Surfaces A: Physicochemical and Engineering Aspects, 414, (2012), pp. 339-344, ISSN: 0927-7757.

- 1592.** S.A. Klemeshev, M.P. Petrov, A.A. Trusov, V.V. Vojtylov, Light scattering in colloids of diamond and graphite, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 400, (2012), pp. 52-57, ISSN: 0927-7757.
- 1593.** V. Mikova, K. Kamburova, R. Cameron, Ts. Radeva, Complexation of ferric oxide particles with pectins of ordered and random distribution of charged units, *Biomacromolecules*, 13, (2012), pp. 138-145, ISSN: 1525-7797.
- 1594.** M.L. Jiménez, L. Fornasari, F. Mantegazza, M.C.D. Mourad, T. Bellini, Electric birefringence of dispersions of platelets, *Langmuir* 28 (1), (2012), pp. 251-258, ISSN: 0743-7463 (print version), E-ISSN: 1520-5827 (print version).

S. Bernacchi, S. Stoylov, E. Piémont, D. Ficheux, B.P. Roques, J.L. Darlix, Y. Mély, HIV-1 nucleocapsid protein activates transient melting of least stable parts of the secondary structure of TAR and its complementary sequence. *J. of Molecular Biology*, 317 (3), (2002), pp. 385-399, ISSN: 00222836

- 1595.** N.M. Bell, J.C. Kenyon, S. Balasubramanian, A.M.L. Lever, Comparative structural effects of HIV-1 gag and nucleocapsid proteins in binding to and unwinding of the viral RNA packaging signal. *Biochemistry* 51 (15), (2012), pp. 3162-3169, ISSN: 00062960.
- 1596.** M.S. Melzer, Amino acid-Anticodon binding specificity: Rationale for a new class of therapeutic agent. *Drug Discovery Today*, 17 (7-8), (2012), pp. 291-295, ISSN: 13596446

S. Jovtchev, I. Djenev, S. Stoylov, Role of electrical and mechanical properties of red blood cells for their aggregation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 164(2-3), (2000), pp. 95-104, ISSN: 09277757.

- 1597.** D.C.N. Silva, C.N. Jovino, C.A.L. Silva, H.P. Fernandes, M.M. Filho, S.C. Lucena, A.M.D.N. Costa, C.L. Cesar, M.L. Barjas-Castro, B.S. Santos, A. Fontes, Optical tweezers as a new biomedical tool to measure zeta potential of stored red blood cells, *PLoS ONE*, 7 (2), (2012), DOI: 10.1371/journal.pone.0031778, ISSN: 19326203

K. Yamaoka, V. Peikov, R. Sasai, S.P. Stoylov, Theory and experiment of reversing-pulse electric birefringence: The case of bentonite suspensions in the absence and presence of cetylpyridinium chloride. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 148(1-2), (1999), pp.43-59, ISSN: 09277757

- 1598.** M.L. Jiménez, L. Fornasari, F. Mantegazza, M.C.D. Mourad, T. Bellini, Electric birefringence of dispersions of platelets, *Langmuir* 28 (1), (2012), pp. 251-258, ISSN: 07437463

E.L. Cam, D. Coulaud, E. Delain, P. Petitjean, B.P. Roques, D. Gérard, E. Stoylova, C. Vuilleumier, S.P. Stoylov, Y. Mély, Properties and growth mechanism of the ordered aggregation of a model RNA by the HIV-1 nucleocapsid protein: An electron microscopy investigation. Biopolymers, 45(3), (1998), pp.217-229, ISSN: 00063525.

- 1599.** A. de Marco, A.-M. Heuse, B. Glass, H.-G. Kräusslich, B. Müller, J.A.G. Briggs, Role of the SP2 domain and its proteolytic cleavage in HIV-1 structural maturation and infectivity. *Journal of Virology*, 86 (24), (2012), pp. 13708-13716, ISSN: 0022538X

S.P. Stoylov, C. Vuilleumier, E. Stoylova, H. De Rocquigny, B.P. Roques, D. Gerard, Y. Mely, Ordered aggregation of ribonucleic acids by the human immunodeficiency virus type 1 nucleocapsid protein. Biopolymers, 41(3), (1997), pp. 301-312, ISSN: 00063525

- 1600.** A. de Marco, A.-M. Heuse, B. Glass, H.-G. Kräusslich, B. Müller, J.A.G. Briggs, Role of the SP2 domain and its proteolytic cleavage in HIV-1 structural maturation and infectivity. *Journal of Virology*, 86 (24), (2012), pp. 13708-13716, ISSN: 0022538X

S. Kakorin, S.P. Stoylov, E. Neumann, Electro-optics of membrane electroporation in diphenylhexatriene-doped lipid bilayer vesicles, Biophysical Chemistry, 58(1-2), (1996), pp. 109-116, ISSN: 03014622

- 1601.** T. Kotnik, P. Kramar, G. Pucihař, D. Miklavčič, M. Tarek, Cell membrane electroporation - Part 1: The phenomenon, *IEEE Electrical Insulation Magazine*, 28 (5), (2012), art. no. 6268438, pp. 14-23, ISSN: 08837554

S.P. Stoylov, E. Stoylova, J. Sturm, G. Weill, Electric birefringence of polytetrafluoroethylene particles in agarose gels, Biophysical Chemistry, 58(1-2), (1996), pp.157-164, ISSN: 03014622

- 1602.** M.L. Jiménez, L. Fornasari, F. Mantegazza, M.C.D. Mourad, T. Bellini, Electric birefringence of dispersions of platelets, *Langmuir* 28 (1), (2012), pp. 251-258, ISSN: 07437463.

D. Exerowa, P.M. Kruglyakov, *Foam and Foam Films: Theory, Experiment, Application*, (1998). Elsevier, Amsterdam. ISBN: 0-444-8192Z-3

- 1603.** G.A. Georgiev, C. Vassilieff, A. Jordanova, A. Tsanova, Z. Lalchev, Foam film study of albumin inhibited lung surfactant preparations: Effect of added hydrophilic polymers, *Soft Matter*, 8(48), (2012), pp. 12072-12079, ISSN: 1744-683X.

- 1604.** A.R. Patel, E. Drost, T.B.J. Blijdenstein, K.P. Velikov, Stable and temperature-responsive surfactant-free foamulsions with high oil-volume fraction, *ChemPhysChem*, 13 (17), (2012), pp. 3777-3781, ISSN: 1439-4235.

- 1605.** H. Zhang, P. Marinescu, W. Foxenberg, Unique flow-back chemistry for enhancing productivity of low-permeability reservoir (Conference Paper), Society of Petroleum Engineers - IADC/SPE Asia Pacific Drilling Technology Conference 2012 - Catching the Unconventional Tide: Winning the Future Through Innovation, IADC/SPE Asia Pacific Drilling Technology Conference 2012 - Catching the Unconventional Tide: Winning the Future Through Innovation; Tianjin; 9 July 2012 through 11 July 2012; Code 94128, 1, (2012), pp. 148-155.
- 1606.** A.V. Bazilevsky, A.N. Rozhkov, Motion of a foam lamella in a circular channel under a relaxing small pressure jump, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 414, (2012), pp. 457-465, ISSN: 0927-7757
- 1607.** R. Farajzadeh, A. Andrianov, R. Krastev, G.J. Hirasaki, W.R. Rossen, Foam-oil interaction in porous media: Implications for foam assisted enhanced oil recovery, *Advances in Colloid and Interface Science*, 183-184, (2012), pp. 1-13, ISSN: 0001-8686
- 1608.** R. Gabrieli, G. Loglio, P. Pandolfini, A. Fabbri, M. Simoncini, V.I. Kovalchuk, B.A. Noskov, A.V. Makievski, J. Krägel, R. Miller, F. Ravera, L. Liggieri, Spherical cap-shaped emulsion films: Thickness evaluation at the nanoscale level by the optical evanescent wave effect, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 413, (2012), pp. 101-107, ISSN: 0927-7757
- 1609.** S. Farrokhpay, The importance of rheology in mineral flotation: A review, *Minerals Engineering*, 36-38, (2012), pp. 272-278, ISSN: 0892-6875
- 1610.** R. Farajzadeh, A. Andrianov, R. Krastev, G.J. Hirasaki, W.R. Rossen, W.R., Foam-oil interaction in porous media: Implications for foam assisted enhanced oil recovery (Conference Paper), Society of Petroleum Engineers - SPE EOR Conference at Oil and Gas West Asia 2012, OGWA - EOR: Building Towards Sustainable Growth, SPE EOR Conference at Oil and Gas West Asia 2012 - EOR: Building Towards Sustainable Growth, OGWA; Muscat; 16 April 2012 through 18 April 2012; Code 92528, 1, (2012), pp. 251-270.
- 1611.** Q. Zhang, X. Wei, J. Liu, D. Sun, X. Zhang, C. Zhang, J. Liu, Effects of inorganic salts and polymers on the foam performance of 1-tetradecyl-3-methylimidazolium bromide aqueous solution, *Journal of Surfactants and Detergents*, 15 (5), (2012), pp. 613-621, ISSN: 1097-3958
- 1612.** F. Pigeonneau, H. Kočárová, F. Rouyer, Stability of vertical films of molten glass due to evaporation, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 408, (2012), pp. 8-16. ISSN: 0927-7757.

- 1613.** S.I. Karakashev, M.V. Grozdanova, Foams and antifoams (Review), Advances in Colloid and Interface Science, 176-177, (2012), pp. 1-17. ISSN: 0001-8686
- 1614.** S.I. Karakashev, P. Georgiev, K. Balashev, Foam production - Ratio between foaminess and rate of foam decay, Journal of Colloid and Interface Science, 379 (1), (2012), 144-147, ISSN: 0021-9797
- 1615.** J. Emile, F. Casanova, G. Loas, O. Emile, Swelling of a foam lamella in a confined channel, Soft Matter, 8 (27), (2012), pp. 7223-7227, ISSN: 1744-683X
- 1616.** N.G. Vilkova, S.I. Elaneva, S.I. Karakashev, Effect of hexylamine concentration on the properties of foams and foam films stabilized by ludox, Mendeleev Communications, 22 (4), (2012), pp. 227-228, ISSN: 0959-9436
- 1617.** J. Boos, W. Drenckhan, C. Stubenrauch, On how surfactant depletion during foam generation influences foam properties, Langmuir, 28 (25), (2012), pp. 9303-9310, ISSN: 0743-7463
- 1618.** F. Tamm, G. Sauer, M. Scampicchio, S. Drusch, Pendant drop tensiometry for the evaluation of the foaming properties of milk-derived proteins, Food Hydrocolloids, 27 (2), (2012), pp. 371-377, ISSN: 0268-005X
- 1619.** L. Wang, Inter-bubble attractions in aqueous solutions of flotation frothers (Conference Paper), International Symposium on Separation Technologies for Minerals, Coal, and Earth Resources, Part of the 2011 SME Annual Meeting; Denver, CO; 27 February 2011 through 2 March 2011; Code89586. Separation Technologies for Minerals, Coal, and Earth Resources, (2012), pp. 35-45.
- 1620.** M. Simjoo, Y. Dong, A. Andrianov, M. Talanana, P.L.J. Zitha, Novel insight into foam mobility control (Conference Paper), International Petroleum Technology Conference 2012, IPTC 2012;Bangkok;7 February 2012 through 9 February 2012; Code89836. Society of Petroleum Engineers - International Petroleum Technology Conference 2012, IPTC 2012. 4, (2012), pp. 3341-3255.
- 1621.** R. Petkova, S. Tcholakova, N.D. Denkov, Foaming and foam stability for mixed polymer-surfactant solutions: Effects of surfactant type and polymer charge, Langmuir, 28 (11), (2012), pp. 4996-5009, ISSN: 0743-7463
- 1622.** X. Li, S.I. Karakashev, G.M. Evans, P. Stevenson, , Effect of environmental humidity on static foam stability, Langmuir, 28 (9), (2012), pp. 4060-4068, ISSN: 0743-7463

- 1623.** A.J. Babchin, L.L. Schramm, Osmotic repulsion force due to adsorbed surfactants, *Colloids and Surfaces B: Biointerfaces*, 91 (1), (2012), pp. 137-143, ISSN: 0927-7765
- 1624.** D. Du, D. Geng, S. Sun, Y. Li, Surface tension measurement by the drop volume method (Conference Paper), Asian Workshop on Polymer Processing 2011, AWPP2011;Qingdao; 4 November 2011 through 7 November 2011; Code 88599. *Key Engineering Materials*, 501, (2012), pp. 407-412, ISSN: 1013-9826.
- 1625.** X. Yu, F. Liang, J. Liu, Y. Lu, Z. Yang, Mesoporous hollow spheres from soap bubbling, *Journal of Colloid and Interface Science*, 367 (1), (2012), pp. 531-536, ISSN: 0021-9797
- 1626.** L. Wang, Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants, *International Journal of Mineral Processing*, 102-103, (2012), pp. 58-68, ISSN: 0301-7516

C. Stubenrauch, Khr. Khristov, Foams and foam films stabilized by CnTAB: Influence of the chain length and of impurities, *Journal of Colloid and Interface Science*, 286(2), (2005), pp. 710-718, ISSN: 00219797

- 1627.** X. Hu, Y. Li, X. He, C. Li, Z. Li, X. Cao, X. Xin, P. Somasundaran, Structure-behavior-property relationship study of surfactants as foam stabilizers explored by experimental and molecular simulation approaches, *Journal of Physical Chemistry B*, 116 (1), (2012), pp. 160-167, ISSN: 15206106

Khr. Khristov, J. Czarnecki, Emulsion films stabilized by natural and polymeric surfactants, *Current Opinion in Colloid and Interface Science*, 15 (5), (2010), pp. 324-329, ISSN: 13590294

- 1628.** M. Wiśniewska, S. Chibowski, T. Urban, Effect of the type of polymer functional groups on the structure of its film formed on the alumina surface - Suspension stability *Reactive and Functional Polymers*, 72 (11), (2012), pp. 791-798, ISSN13815148

F. Mostowfi, Khr. Khristov, J. Czarnecki, J. Masliyah, S. Bhattacharjee, Electric field mediated breakdown of thin liquid films separating microscopic emulsion droplets, *Appl. Phys. Lett.*, 90, art. number 184102, (2007), ISSN 00036951

- 1629.** N. Bremond, J. Bibette, Exploring emulsion science with microfluidics (Review), *Soft Matter*, 8 (41), (2012), pp.10549-10559, ISSN 1744683X

Khr. Khristov, S. D. Taylor, J. Czarnecki, J. Masliyah, Thin liquid film technique - Application to water-oil-water bitumen emulsion films, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 174 (1-2), (2000), pp. 183-196. ISSN 09277757

- 1630.** L. Boulangé, F. Sterczynska, Study of interfacial interactions between bitumen and various aggregates used in road construction, Journal of Adhesion Science and Technology, 26 (1-3), (2012), pp. 163-173, ISSN 01694243

V. S. Alahverdjieva, Khr. Khristov, D. Exerowa, R. Miller, Correlation between adsorption isotherms, thin liquid films and foam properties of protein/surfactant mixtures: Lysozyme/C(10)DMPO and lysozyme/SDS, Colloids and Surfaces A-Physicochemical and Engineering Aspects, 323 (1-3), (2008), pp. 132-138, ISSN: 0927-7757

- 1631.** M. Dimitrijev-Dwyer, L. He, M. James, A. Nelson, L. Wang, A. Middleberg, The effects of acid hydrolysis on protein biosurfactant molecular, interfacial, and foam properties: pH responsive protein hydrolysates, Soft Matter, 8 (19), (2012), pp. 5131-5139, ISSN: 1744-683X.

R. Cohen, D. Exerowa, Surface forces and properties of foam films from rhamnolipid biosurfactants, Advances in Colloid and Interface Science, 134-35, (2007), pp. 24-34, ISSN: 0001-8686

- 1632.** N. Samadi, N. Abadian, R. Ahmadkhaniha, F. Amini, D. Dalili, N. Rastkari, E. Safaripour, F. Mohseni, Structural characterization and surface activities of biogenic rhamnolipid surfactants from Pseudomonas aeruginosa isolate MN1 and synergistic effects against methicillin-resistant Staphylococcus aureus, Folia Microbiologica, 57 (6), (2012), pp: 501-508, ISSN: 0015-5632

- 1633.** H. Khoshdast, H. Abbasi, A. Sam, K. Noghabi, Frothability and surface behavior of a rhamnolipid biosurfactant produced by Pseudomonas aeruginosa MA01, Biochemical Engineering Journal, 60, (2012), pp. 127-134, ISSN: 1369-703X

D. Exerowa, D. Kashchiev, D. Platikanov, Stability and permeability of amphiphile bilayers, Advances in Colloid and Interface Science, 40, (1992), pp. 201-256, ISSN: 0001-8686.

- 1634.** E. Ohtomi, N. Ikeda, Y. Tokiwa, I. Watanabe, H. Takine, M. Aratono, H. Matsubara, Thin-thick transition of foam film driven by phase transition of surfactant-alkane mixed adsorbed film, Chemistry Letters, 41 (10), Special Issue: SI (2012), pp.1300-1302 ISSN: 1348-0715

- 1635.** A.R. Thiam, N. Bremond, J. Bibette, From stability to permeability of adhesive emulsion bilayers, Langmuir, 28 (15), (2012), pp. 6291-6298, ISSN: 0743-7463.

1636. R. F. Tabor, F. Grieser, R.R. Dagastine, D. Chan, Measurement and analysis of forces in bubble and droplet systems using AFM, *J. Colloids and Interface Sci.*, 371, (2012), pp. 1-14, ISSN: 0021-9797

1637. N. Bremond, J. Bibette, Exploring emulsion science with microfluidics, *Soft Matter*, 8 (41), (2012), pp.10549-10559, ISSN: 1744-683X.

D. Exerowa, T. Kolarov, Khr. Khristov, Direct measurement of disjoining pressure in black foam films .1. Films from an ionic surfactant, Colloids and Surfaces, 22 (2-4), (1987), pp. 171-185, ISSN: 0927-7757

1638. P. Tarazona, H. Martinez, E. Chacon, F. Bremse,. Newton black films as wetting systems, *Physical review B*, 85 (8), 2012, Article Number: 085402, ISSN: 0163-1829

1639. L. Wang, Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants, *International Journal of Mineral Proc.*, 102, (2012), pp. 58-68, ISSN: 0301-7516

R. Ivanova, B. Balinov, R. Sedev, D. Exerowa, Formation of a stable, highly concentrated O/W emulsion modeled by means of foam films, Colloids and Surfaces A-Physicochemical and Engineering Aspects, 149 (1-3), (1999), pp. 23-28, ISSN: 0927-7757

1640. F. Wang, Y. Liu, Y. Zhang, S. Hu, Experimental study on the stability of asphalt emulsion for CA mortar by laser diffraction technique, *Construction And Building Materials*, 28, (1), (2012), pp. 117-121, ISSN: 0950-0618

1641. J. Li, J. Zhang, Y. Zhao, B. Han, G. Yang, High-internal-ionic liquid-phase emulsions, *Chemical Communications*, 48 (7), 2012, pp. 994-996, ISSN: 1364548X

D. Kashchiev, D. Exerowa, Bilayer lipid-membrane permeation and rupture due to hole formation, Biochimica et Biophysica Acta, 732(1), (1983), pp.133-145, ISSN: 0006-3002

1642. C. Gasbarri, G. Angelini, A. Fontana, P. Maria, G. Siani, I. Giannicchi, A.d. Cort, Kinetics of demetallation of a zinc-salophen complex into liposomes, *Biochimica et biophysica acta*, 1818 (3), (2012), pp. 747-752, ISSN: 0006-3002

D. Kashchiev, D. Exerowa, Structure and surface energy of the surfactant layer on the alveolar surface, European Biophysics Journal with Biophysics Letters, 30 (1), (2001), pp. 34-41, ISSN: 0175-7571

1643. L.X. Jiang, J. Bin Huang, A. Bahramian, P. Li, R. Thomas, J. Penfold, Surface behavior, aggregation and phase separation of aqueous Mixtures of dodecyl trimethylammonium bromide and sodium oligoarene sulfonates: the transition to polyelectrolyte/surfactant behavior, *Langmuir*, 28(1), (2012), pp. 327-338, ISSN: 0743-7463

Khr. Khristov, B. Jachimska, Malysa. K., D. Exerowa, D., 'Static' and steady-state foams from ABA triblock copolymers: influence of the type of foam films, Colloids & Surfaces A- Physicochemical and Engineering Aspects, 186 (1-2), (2001), pp. 93-101, ISSN: 0927-7757

- 1644.** X. Hu, Y. Li, X. He, Ch. Li, Zh. Li, X. Cao, X. Xin, P. Somasundaran, Structure-behavior-property relationship study of surfactants as foam stabilizers explored by experimental and molecular simulation approaches, *J. Phys. Chem.B*, 116 (1), (2012), pp. 160-167, ISSN: 1089-5647

Z. Lalchev, L. Dimitrova, P. Tzvetkova, D. Exerowa, Foam separation of DNA and proteins from solutions, Biotechnology and Bioengineering, 24 (10), (1982), pp. 2253-2262, ISSN: 0006-3592

- 1645.** B. Burghoff, Foam fractionation applications, *Journal of Biotechnology*, 161 (2), (2012), pp.126-137, ISSN: 0168-1656

E. Manev, A. Scheludko, D. Exerowa, Effect of surfactant concentration on critical thicknesses of liquid-films, Colloid and Polymer Science, 252 (7-8), (1974), pp. 586-593, ISSN: 0303-402X

- 1646.** M. Alex, S. Kareth, M. Petermann, Stability of emulsions in presence of compressed propane, *Journal of Supercritical Fluids*, 66, (2012), pp. 282-290, ISSN: 0896-8446

R. Sedev, D. Exerowa, G.H. Findenegg, Poly(ethylene oxide)-poly(propylene oxide) - poly(ethylene)oxide triblock copolymers at the water/air interface and in foam films, Colloid and Polymer Science, 278 (2), (2000), pp.119-123, ISSN: 0303-402X

- 1647.** H. Gong, G. Xu, T. Liu, L. Xu, X. Zhai, J. Zhang, X. Li, Aggregation Behaviors of PEO-PPO-ph-PPO-PEO and PPO-PEO-ph-PEO-PPO at an Air/Water Interface: Experimental Study and Molecular Dynamics Simulation, *Langmuir*, 28 (38), (2012), pp.13590-13600, ISSN: 0743-7463s

- 1648.** S. Samanta, S. Hezaveh, G. Milano, D. Roccatano, Diffusion of 1,2-Dimethoxyethane and 1,2-Dimethoxypropane through Phosphatidylcholine Bilayers: A Molecular Dynamics Study, *J. Phys. Chem. B*, 116 (17), (2012), pp. 5141-5151, ISSN: 1089-5647

- 1649.** R. Kaur, S. Kumar, V.K. Aswal, R. Mahajan, Interactional and aggregation behavior of twin tail cationic surfactants with pluronic L64 in aqueous solution, *Colloid Polymer Science*, 290 (2), (2012), pp. 127-139, ISSN: 0303-402X

R. Sedev, Z. Nemeth, R. Ivanova, D. Exerowa, Surface force measurement in foam films from mixtures of protein and polymeric surfactants, Colloids and Surfaces A- Physicochemical and Engineering Aspects, 149 (1-3), (1999), pp. 141-144, ISSN: 0927-7757

1650. J. Huo, Y. Yuan, Ch. Wang et al., Preparation of foaming agent by modification protein from Pea meal, Book Editor(s): Wen, YX; Lei, FH, Adv. Chem. Engineering, PTS 1-3, Book Series: Advanced Materials Research, 396-398, (2012), pp. 811-816, ISSN: 1662-8985

C. Stubenrauch, D. Langevin, D. Exerowa, E. Manev, P. Claesson, L. Boinovich, R. Von Klitzing, Comment on "Hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: Effect of electrolyte" and subsequent criticism, Langmuir 23 (24), (2007), pp. 12457-12460, ISSN: 0743-7463

1651. L. Wang, Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants, International Journal of Mineral Processing, 102, (2012), pp. 58-68, ISSN: 0301-7516

P. Tchoukov, E. Mileva, D. Exerowa, Experimental evidences of self-assembly in foam films from amphiphilic solutions, Langmuir, 19 (4), (2003), pp. 215-1220, ISSN: 0743-7463

1652. M. Velinova, Y. Tsoneva, Ph. Shushkov, A. Ivanova, A. Tadjer., Systematic Derivation and Testing of AMBER Force Field Parameters for Fatty Ethers from Quantum Mechanical Calculations, Book Editor(s): P.E.E. Hoggan, E.J.J. Brandas, J. Maruani et al., Advances in the theory of quantum systems in chemistry and physics, Book Series: Progress in Theoretical Chemistry and Physics, 22, (2012), pp. 461-480, ISSN: 1567-7354

E. Mileva, Static Structure of Polydisperse Micellar Solutions. J. Colloid Interface Sci. 232, (2000) pp. 211-218, ISSN: 0021-9797

1653. M. H. Rahman, Molecular Dynamics Study of Sodium Octanoate Self-assembly in Parallel-Wall Confinements, PhD Thesis, Dalhousie University, Halifax, Nova Scotia (2012).

1654. VS Kuznetsov, NV Usol'tseva, VV Bykova, Electrostatic interactions in micellar solutions of sodium n-alkyl sulfates and applicability of the poisson-boltzmann equation for their calculation Journal of Structural Chemistry, 53 (1), (2012) pp 82-92, ISSN: 0022-4766

E. Mileva, Impact of adsorption layers on thin liquid films, Current Opinion in Colloid and Interface Science, 15 (2010) pp. 315-323, ISSN: 1359-0294

1655. I Varga, R Meszaros, C Stubenrauch, Adsorption of Sugar Surfactants at the Air/Water Interface, J. Colloid Interface Sci., 379 (1), (2012) pp. 78–83, ISSN: 0021-9797

1656. N. A. Rideg, M. Darvas, I. Varga, P. Jedlovszky, Lateral Dynamics of Surfactants at the Free Water Surface: A Computer Simulation Study, Langmuir, 28 (42), (2012) pp 14944–14953, ISSN: 0743-7463

E. Mileva, P. Tchoukov, D. Exerowa, Amphiphilic nanostructures in thin liquid films, Adv. Coll&Interf. Sci., 114-115, (2005), pp. 47, ISSN: 0001-8686

- 1657.** M. Velinova, Y. Tsoneva Y, P. Shushkov, A. Ivanova, A. Tadjer, in: Advances in the Theory of Quantum Systems in Chemistry and Physics, Eds. Hoggan et al., Progress in Theoretical Chemistry and Physics 22, Springer Netherlands; pp.461-480, (2012), ISBN: 978-94-007-2076-3
- 1658.** T Zahariev, A Ivanova, M Velinova, A Tadjer, Structure and Aggregation Proclivity of C12E3 in Aqueous Solution, Chemical Physics, in press – online available (2012), <http://dx.doi.org/10.1016/j.chemphys.2012.10.005>, ISSN: 0301-0104

E. Mileva, Solid particle in the boundary layer of a rising bubble, Colloid and Polymer Science, 268 (4) (1990) pp. 375-383. ISSN: 0303-402X

- 1659.** L. Nikolov, A new methodology for theoretical investigation of dynamic interactions in colloid systems, *Compt. rend. Acad. bulg. Sci.* 65, (2012), pp. 613-620, ISSN: 1310-1331

E. Mileva, I. Nishkov. Entrainment of fine hydrophilic particles by granulometric separation, International Journal of Mineral. Processing, 36 (1-2) (1992) pp. 125-136. ISSN: 0301-7516

- 1660.** L. Nikolov, A new methodology for theoretical investigation of dynamic interactions in colloid systems, *Compt. rend. Acad. bulg. Sci.* 65, (2012), pp. 613-620. ISSN: 1310-1331

E. Mileva, Fine particles inside the boundary layers at different interfaces, Current Topics in Colloid and Interface Science, 3 (1999) pp. 1-18. ISSN: 0972-4494

- 1661.** L. Nikolov, A new methodology for theoretical investigation of dynamic interactions in colloid systems, *Compt. rend. Acad. bulg. Sci.* 65, (2012), pp. 613-620. ISSN: 1310-1331

Czarnecki J., Tchoukov P., Dabros T., Possible role of asphaltenes in stabilization of water in crude oil emulsions, in The 11th Annual International Conference on Petroleum Phase Behavior and Fouling. 2010: Newark, NJ, USA. p. O24.

- 1662.** Neuville M., Rondelez F, Cagna A, Sanchez M, Energy & Fuels, 26, (2012) pp. 7236-7242, ISSN: 0887-0624

P. Tchoukov, J. Czarnecki, T. Dabros, Study of water-in-oil thin liquid films: Implications for the stability of petroleum emulsions, Colloids Surface A, 372, (2010), pp. 15-21, ISSN: 0927-7757.

- 1663.** Gabrieli R., Loglio G., Pandolfini P., Fabbri A., Simoncini M., Kovalchuk V.I., Noskov B.A., Makievski A.V., Krägel J., Miller R., Ravera F., Liggieri L., Colloids and Surfaces A, 413, (2012), pp. 101-107, ISSN: 0927-7757.
- 1664.** Li, R.-F., Chen, J.-Q., Li, F.-C., Liu, W., Huang, S.-T., Liu, P., Guocheng Gongcheng Xuebao/The Chinese Journal of Process Engineering 12 (4), (2012), pp. 596-601, ISSN: 1009606X
- 1665.** Liu, G.; Chen, B.; Zhang, X.; Huang, L. Shiyou Huagong/Petrochemical Technology, 41, (2012) pp. 1333-1336, ISSN: 1000-8144