

ЦИТАТИ
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- A. Milchev, 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, Nucleation and growth of zinc on aluminum from acidic sulfate solution with [BMIM]HSO₄ as additive, *J. Appl. Electrochem.* 41 (2011) 705-712. ISSN: 0021891X.
- K. Bade, V. Tsakova, J.W. Schultze, Nucleation, growth and branching of polyaniline from microelectrode experiments, *Electrochim. Acta*, 37 (1992) 2255-2261. ISSN: 00134686.
2. M. A. Raso, M.J. González-Tejera, I. Carrillo, E. Sanchez De La Blanca, M.V. García, M.I. Redondo, Electrochemical nucleation and growth of poly-N-Methylpyrrole on copper, *Thin Solid Films*, 519 (2011) 2387-2392. ISSN: 00406090.
 3. C. Liu, K. Hayashi, K. Toko, Template-free deposition of polyaniline nanostructures on solid substrates with horizontal orientation, *Macromolecules*, 44 (2011) 2212-2219. ISSN: 00249297.
 4. E. Kalyoncu, M. Alanyaliolu, Chronoamperometric and morphological investigation of nucleation and growth mechanism of poly(azure A) thin films, *J. Electroanal. Chem.*, 660 (2011) 133-139. ISSN: 15726657.
- J.W. Schultze, V. Tsakova, Electrochemical microsystem technologies: from fundamental research to technical systems, *Electrochim. Acta*, 44 (1999) 3605-3627. ISSN: 00134686.
5. P. Marcus, I. Fracteur, V. Maurice, Evolution of research methods and techniques in corrosion | Evolution des méthodes et outils de recherche sur la corrosion, *Materiaux et Techniques*, 99 (2011) 13-33, ISSN: 00326895.
- V. Tsakova, D. Borissov, Electrochemical deposition of copper in polyaniline films – number density and spatial distribution of deposited metal crystals, *Electrochem. Commun.*, 2 (2000) 511-515. ISSN: 1388-2481
6. T. Amaya, T. Hirao, Synthesis and application of redox-active hybrid catalytic systems consisting of polyanilines and transition metals, *Synth. Lett.* 4 (2011) 435-448. ISSN: 09365214.
 7. S. Devillers, Q. Lemineur, J. Delhalle, Z. Mekhalif, Exploratory study of copper particles electrodeposition on nickel by induction heating, *Electrochim. Acta* 56 (2011) 4953-4959. ISSN: 00134686.
 8. S. Devillers, Q. Lemineur, J. Delhalle, Z. Mekhalif, Induction vs. conventional heating: Impact on the morphology and crystallinity of copper electrodeposits on nickel, *J. Electrochem. Soc.* 158 (2011) E111-E118. ISSN: 00134651.
- V. Tsakova, S. Winkels, J. W. Schultze, Anodic polymerization of 3,4-ethylenedioxythiophene from aqueous microemulsions, *Electrochim. Acta*, 46 (2000) 759-768. ISSN: 00134686.
9. A. Ricardo Gonçalves, M. Emilia Ghica, Christopher M.A. Brett, Preparation and characterisation of poly(3,4-ethylenedioxythiophene) and poly(3,4-ethylenedioxythiophene)/poly(neutral red) modified carbon film electrodes, and application as sensors for hydrogen peroxide, *Electrochim. Acta*, 56 (2011) 3685. ISSN: 00134686.
 10. R.R. Parajuli, Developing conducting polymer nanocomposites with carbon nanomaterials for molecular detection and fuel cell applications, PhD thesis, Graduate-School, Newark Rutgers, The State University of New Jersey, October 2011, Newark, New Jersey.
- 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
11. E. Andreoli, D.A. Rooney, W. Redington, R. Gunning, C.B. Breslin, Electrochemical deposition of hierarchical micro/nanostructures of copper hydroxysulfates on polypyrrole-polystyrene sulfonate films, *J. Phys. Chem. C* 115 (2011) 8725-8734. ISSN: 19327447.
 12. S.K. Kim, S.R. Bae, M.S. Ahmed, J.-M. You, S. Jeon, Selective determination of serotonin on poly(3,4-ethylenedioxy pyrrole)-single-walled carbon nanotube-modified glassy carbon electrodes, *Bull. Korean Chem. Soc.* 32 (2011) 1215-1220. ISSN: 02532964.

13. S. Devillers, Q. Lemineur, J. Delhalle, Z. Mekhalif, Exploratory study of copper particles electrodeposition on nickel by induction heating, *Electrochim. Acta* 56 (2011) 4953-4959. ISSN: 00134686.
 14. S. Prakash, S. Rajesh, S.K. Singh, K. Bhargava, G. Ilavazhagan, V. Vasu, C. Karunakaran, Copper nanoparticles entrapped in SWCNT-PPy nanocomposite on Pt electrode as NO_x electrochemical sensor, *Talanta* 85(2011) 964-969. ISSN: 00399140.
 15. S.K. Kim, M.S. Ahmed, Mohammad, H. Jeong, J.M. You, S. Jeon, Determination of serotonin on a glassy carbon electrode modified by electropolymerization of meso-tetrakis(2-aminophenyl)porphyrin and single walled carbon nanotubes. *J. Nanosci. Manotechnol.* 11(2011) 2407-2412. ISSN: 15334880.
- V. Tsakova, D. Borissov, B. Rangelov, Ch. Stromberg, J. W. Schultze, Electrochemical incorporation of copper in polyaniline layers, *Electrochim. Acta*, 46 (2001) 4213-4222. ISSN: 00134686
16. S. Devillers, Q. Lemineur, J. Delhalle, Z. Mekhalif, Exploratory study of copper particles electrodeposition on nickel by induction heating, *Electrochim. Acta* 56 (2011) 4953-4959. ISSN: 00134686.
 17. Membranes for Membrane Reactors. Preparation, Optimization and selection, ed. by A. Basile, F. Gallucci, J.Wiley, 2011, ch.16, p.71. ISBN 978-0-470-74652-3
 18. S. Devillers, Q. Lemineur, J. Delhalle, Z. Mekhalif, Induction vs. conventional heating: Impact on the morphology and crystallinity of copper electrodeposits on nickel, *J. Electrochem. Soc.* 158 (2011) E111-E118. ISSN: 00134651.
- V. Tsakova, D. Borissov, S. Ivanov, Role of the polymer synthesis conditions for the copper electrodeposition in polyaniline, *Electrochem. Commun.* 3 (2001) 312-316. ISSN: 1388-2481
19. M. Xu, S. Xie, X.-H. Lu, Z.-Q. Liu, Y. Huang, Y. Zhao, J. Ye, Y.-X. Tong, Controllable electrochemical synthesis and photocatalytic activity of CeO₂ octahedra and nanotubes, *J. Electrochem. Soc.* 158 (2011) E41-E44. ISSN: 00134651.
 20. M.E. Leyva, F.G. Garcia, A.A.A. De Queiroz, D.A.W. Soares, Electrical properties of the DGEBA/PANI-Ag composites, *J. Mater. Sci. Mater. Electronics* 22 (2011) 376-383. ISSN: 09574522.
 21. Membranes for Membrane Reactors. Preparation, Optimization and selection, ed. by A. Basile, F. Gallucci, J.Wiley, 2011, ch.16, p.71. ISBN 978-0-470-74652-3
- 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.
22. T. Danieli, J. Colleran, D. Mandler, Deposition of Au and Ag nanoparticles on PEDOT, *Phys. Chem. Chem. Phys.* 13 (2011) 20345-20353. ISSN: 14639076.
- 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.
23. J.U. Navarrete, D.M. Borrok, M. Viveros, J.T. Ellzey, Copper isotope fractionation during surface adsorption and intracellular incorporation by bacteria, *Geochimica et Cosmochimica Acta*, 75 (2011) 784-799. ISSN: 00167037.
 24. W. Guo, H. Wu, Z. Zheng, Q. Chen, M. Zhang, Q. Chu, Study on nano polyaniline/silver composite particles preparation and electrical property, *Adv. Mater. Research*, 183-185 (2011) 1712-1716. ISSN: 10226680 ISBN: 978-303785022-0.
 25. J.F.K. Cooper, C.H.W. Barnes, Bitrex: A new levelling agent for copper, *Electrochim. Acta*, 56 (2011) 9448-9452. ISSN: 00134686.
- 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.
26. W. Guo, H. Wu, Z. Zheng, Q. Chen, M. Zhang, Q. Chu, Study on nano polyaniline/silver composite particles preparation and electrical property, *Adv. Mater. Research*, 183-185(2011)1712-1716. ISSN: 17924340.
- S. Ivanov, P. Mokreva, V. Tsakova, L. Terlemezyan, Electrochemical and surface structural characterization of chemically and electrochemically synthesized polymer layers – a comparison, *Thin Solid Films*, 441 (2003) 44-49. ISSN: 00406090.

27. P.R. Deshmukh, S.N. Pusawale, V.S. Jamadade, U.M. Patil, C.D. Lokhande, Microwave assisted chemical bath deposited polyaniline films for supercapacitor application, *J. Alloys and Compounds*, 509 (2011) 5064-5069. ISSN: 09258388.
 28. Z. Jin, X. Ren, C. Qin, B. Li, S. Quan, X. Bai, Hybrid supercapacitors based on polyaniline and activated carbon composite electrode materials, *Pigment and Resin Technology* 40 (2011) 235-239. ISSN: 03699420.
 29. G. Ayala, A.C. Agudelo, J.Paz, R. A. Vargas, Study of dc conductivity, transport mechanism, and dielectric relaxation in cassava starch membranes plasticized with glycerol, *Ionics* 17 (2011) 647-652. ISSN: 09477047.
- C. Stromberg, V. Tsakova, J. W. Schultze, Composition of the microemulsion and its influence on the polymerization and redox activation of PEDOT, *J. Electroanal. Chem.*, 547 (2003) 125-133. ISSN: 15726657.
30. PEDOT: Principles and Applications of an Intrinsically Conductive Polymer, ed. A. Elschner, St. Kirchmeyer, W. Loevenich, U. Merker, K. Reuter, CRC Press, 2011, p.246. ISBN: 978-1-4200-6911-2
- S. Ivanov, V. Tsakova, Silver electrocrystallization at polyaniline-coated electrodes *Electrochim. Acta*, 49 (2004) 913-921. ISSN: 00134686.
31. M.A. Vorotyntsev, M. Skompska, A. Rajchowska, J. Borysiuk, M. Donten, A new strategy towards electroactive polymer-inorganic nanostructure composites. Silver nanoparticles inside polypyrrole matrix with pendant titanocene dichloride complexes, *J. Electroanal. Chem.* 662 (2011)105-115. ISSN: 15726657.
- M. Ilieva, V. Tsakova, Copper modified poly(3,4-ethylenedioxythiophene): Part I. Galvanostatic experiments., *Synth. Met.*, 141 (2004) 281-285. ISSN: 0379-6779.
32. V.C. Ferreira, A.I. Melato, A.F. Silva L.M. Abrantes, Attachment of noble metal nanoparticles to conducting polymers containing sulphur-preparation conditions for enhanced electrocatalytic activity *Electrochim. Acta* 56 (2011) 3567-3574. ISSN: 00134686.
 33. S. Lupu, In situ electrochemical preparation and characterization of PEDOT-Prussian blue composite materials, *Synth. Met.*, 161 (2011) 384-390. ISSN: 03796779.
- M. Ilieva, V. Tsakova, Copper modified poly(3,4-ethylenedioxythiophene): Part II. Potentiostatic experiments., *Synth. Met.*, 141 (2004) 287-292. ISSN: 0379-6779.
34. S. Lupu, In situ electrochemical preparation and characterization of PEDOT-Prussian blue composite materials, *Synth. Met.*, 161 (2011) 384-390. 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.
35. P. Bober, M. Trchová, J. Prokeš, M. Varga, J. Stejskal, Polyaniline-silver composites prepared by the oxidation of aniline with silver nitrate in solutions of sulfonic acids, *Electrochim. Acta*, 56 (2011) 3580-3585. ISSN: 00134686.
 36. M.A. Vorotyntsev, M. Skompska, A. Rajchowska, J. Borysiuk, M. Donten, A new strategy towards electroactive polymer-inorganic nanostructure composites. Silver nanoparticles inside polypyrrole matrix with pendant titanocene dichloride complexes. *J. Electroanal. Chem.* 662 (2011)105-105. ISSN: 15726657.
- 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
37. Y.C. Weng, Y.L. Hsiao, Comparison of Pt and Ni foil electrodes for amperometric sensing of ascorbic acid, *J. Electroanal. Chem.*, 651 (2011) 160-165. ISSN: 15726657.
 38. G.A. Evtugyn, R.V. Shamagsumova, E.E. Stoikova, R.R. Sitdikov, I.I. Stoikov, H.C. Budnikov, A.N. Ivanov, I.S. Antipin, Potentiometric sensors based on polyaniline and thiacalixarenes for green tea discrimination, *Electroanalysis* 23 (2011) 1081-1088. ISSN: 10400397.
 39. Y.C. Weng, Y.G. Lee, Y.L. Hsiao, C. Y. Lin, A highly sensitive ascorbic acid sensor using a Ni-Pt electrode, *Electrochim. Acta* 56 (2011) 9937-9945. ISSN: 00134686.
- L. Komsijska, V. Tsakova, Ascorbic acid oxidation at non-modified and copper-modified polyaniline and poly-ortho-methoxyaniline coated electrodes., *Electroanalysis*, 18 (2006) 807-813. ISSN: 10400397.

40. J. Maciejewska, K. Pisarek, I. Bartosiewicz, P. Krysiński, K. Jackowska, A.T. Bieguński, Selective detection of dopamine on poly(indole-5-carboxylic acid)/tyrosinase electrode, *Electrochim. Acta* 56 (2011) 3700-3706. ISSN: 00134686.
41. M.J. Antony, M. Jayakannan, Polyaniline nanoscaffolds for colorimetric sensing of biomolecules via electron transfer process, *Langmuir* 27 (2011) 6268-6278. ISSN: 07437463.
- F. Kurniawan, V. Tsakova, V. M. Mirsky, Gold nanoparticles in nonenzymatic electrochemical detection of sugars, *Electroanalysis*, 18 (2006) 1937-1942. ISSN: 10400397.
42. M.R. Guascito, D. Chirizzi, R.A. Picca, E. Mazzotta, C. Malitesta, Ag nanoparticles capped by a nontoxic polymer: Electrochemical and spectroscopic characterization of a novel nanomaterial for glucose detection, *Materials Sci. Eng., C* 31 (2011) 606-611. ISSN: 09284931.
43. F. Terzi, B. Zanfognini, C. Zanardi, L. Pigani, R. Seeber http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TG0-514BPMM-3&_user=839858&_coverDate=09%2F29%2F2010&_rdoc=1&_fmt=high&_orig=gateway&_origin=gateway&_ort=d&_docanchor=&_view=c&_acct=C000045400&_version=1&_urlVersion=0&_userid=839858&_md5=dfcdb8db2d521650abb94eb0a97214cf&_searchtype=a - fn0005, Poly(3,4-ethylenedioxythiophene)/Au-nanoparticles composite as electrode coating suitable for electrocatalytic oxidation, *Electrochim. Acta* 56 (2011) 3575-3579. ISSN: 00134686.
44. H. Shi, Z. Zhang, Y. Wang, Q. Zhu, W. Song, Bimetallic nano-structured glucose sensing electrode composed of copper atoms deposited on gold nanoparticles, *Microchim. Acta* 173 (2011) 85-94. ISSN: 00263672.
45. T. Li, K. Zhu, S. He, X. Xia, S. Liu, Z. Wang, X. Jiang, Sensitive detection of glucose based on gold nanoparticles assisted silver mirror reaction, *Analyst* 136 (2011) 2893-2896. ISSN: 00032654.
46. A. Gutés, C. Carraro, R. Maboudian, Nonenzymatic glucose sensing based on deposited palladium nanoparticles on epoxy-silver electrodes, *Electrochim. Acta* 56 (2011) 5855-5859. ISSN: 00134686.
47. *Chemosensors, Principles, Strategies and Applications*, ed. by B. Wang, E. V. Anslyn, John Wiley&Sons, 2011, p. 189. ISBN: 978-0-470-59206-9.
48. Y. Ding, Y. Liu, J. Parisi, L. Zhang, Y. Lei, A novel NiO-Au hybrid nanobelts based sensor for sensitive and selective glucose detection, *Biosens. Bioelectronics* 28 (2011) 393-398. ISSN: 09565663.
49. J. Zhao, X. Kong, W. Shi, M. Shao, J. Han, M. Wei, D.G. Evans, X. Duan, Self-assembly of layered double hydroxide nanosheets/Au nanoparticles ultrathin films for enzyme-free electrocatalysis of glucose, *J. Mater. Chem.* 21 (2011) 13926-13933. ISSN: 09599428.
50. J. Wang, W.D. Zhang, Fabrication of CuO nanoplatelets for highly sensitive enzyme-free determination of glucose, *Electrochimica Acta* 56 (2011) 7510-7516. ISSN: 00134686.
51. J.H. Shim, A. Cha, Y. Lee, C. Lee, Nonenzymatic amperometric glucose sensor based on nanoporous gold/ruthenium electrode, *Electroanalysis* 23 (2011) 2057-2062. ISSN: 10400397.
52. X.H. Pham, M.P. NgocBui, C.A. Li, K.N. Han, G.H. Seong, Electrochemical patterning of palladium nanoparticles on a single-walled carbon nanotube platform and its application to glucose detection, *Electroanalysis* 23 (2011) 2087-2093. ISSN: 10400397.
53. H. Zhu, X. Liang, J. Chen, M. Li, Z. Zhu, The influence of ionic liquids on the fabrication of nonenzymatic glucose electrochemical sensor, *Talanta* 85, (2011) 1592-1597. ISSN: 00399140
- L. Komsijska, V. Tsakova, G. Staikov, Electrochemical formation and properties of thin polyaniline films on Au(111) and p-Si(111), *Appl. Phys. A*, 87 (2007) 405-409. ISSN: 0947-8396 (print version), ISSN: 1432-0630 (electronic version)
54. D. Salinas-Torres, F. Montilla, F. Huerta, E. Morallón, All electrochemical synthesis of polyaniline/silica sol-gel materials, *Electrochim. Acta*, 56 (2011) 3620-3625. ISSN: 00134686.
55. C. Liu, K. Hayashi, K. Toko, Template-free deposition of polyaniline nanostructures on solid substrates with horizontal orientation, *Macromolecules* 44 (2011) 2212-2219. ISSN: 00249297.
- M. Ilieva, S. Ivanov, V. Tsakova, Electrochemical synthesis and characterization of TiO₂-polyaniline composite layers *J. Appl. Electrochem.*, 38 (2008) 63-69. ISSN: 0021891X.
56. K. Siuzdak, A. Lisowska-Oleksiak, Hetero-junction composed of poly(3, 4-ethylenedioxythiophene) with poly(styrenesulphonate) and iodine doped titanium dioxide, *Function. Mat. Letters* 4 (2011) 199-203. ISSN: 17936047.
- 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 (print version), ISSN: 1433-0768 (electronic version)

57. Y. Lu, L. Xue, F. Li, *Appl. Surf. Sci.*, Adhesion enhancement between electroless nickel and polyester fabric by a palladium-free process, 257 (2011) 3135-3139. ISSN: 01694332.
58. V.C. Ferreira, A.I. Melato, A.F. Silva L.M. Abrantes, Attachment of noble metal nanoparticles to conducting polymers containing sulphur-preparation conditions for enhanced electrocatalytic activity, *Electrochim. Acta* 56 (2011) 3567-3574. ISSN: 00134686.
59. U. Lange, V. M. Mirsky, Hydrogen sensor based on a graphene-palladium nanocomposite, *Electrochim. Acta*, 56 (2011) 3679-3684. ISSN: 00134686.
60. P. Bober, M. Trchová, J. Prokeš, M. Varga, J. Stejskal, Polyaniline-silver composites prepared by the oxidation of aniline with silver nitrate in solutions of sulfonic acids, *Electrochim. Acta* 56 (2011) 3580-3585. ISSN: 00134686.
61. E. Andreoli, V. Annibaldi, D.A. Rooney, K.S. Liao, N.J. Alley, S.A. Curran, C.B. Breslin, Electrochemical conversion of copper-based hierarchical micro/nanostructures to copper metal nanoparticles and their testing in nitrate sensing, *Electroanalysis* 23 (2011) 2164-2173. ISSN: 10400397.
62. M.A. Vorotyntsev, M. Skompska, A. Rajchowska, J. Borysiuk, M. Donten, A new strategy towards electroactive polymer-inorganic nanostructure composites. Silver nanoparticles inside polypyrrole matrix with pendant titanocene dichloride complexes, *J. Electroanal. Chem.* 662 (2011)105-115. ISSN: 15726657.
- F. Kurniawan, V. Tsakova, V.M. Mirsky, Analytical applications of electrodes modified by gold nanoparticles: Dopamine detection, *J. Nanosci. Nanotechnol.*, 9 (2009) 2407-2412. ISSN: 1533-4880
63. J. Maciejewska, K. Pisarek, I. Bartosiewicz, P. Krysiński, K. Jackowska A.T. Bieguński, Selective detection of dopamine on poly(indole-5-carboxylic acid)/tyrosinase electrode, *Electrochim. Acta* 56 (2011) 3700-3706. ISSN: 00134686.
64. A. Celebanska, D. Tomaszewska, A. Lesniewski, M. Opallo, Film electrode prepared from oppositely charged silicate submicroparticles and carbon nanoparticles for selective dopamine sensing, *Biosens. Bioelectronics* 26 (2011) 4417-4422. ISSN: 09565663.
- 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.
65. O.L. Gribkova, V.F. Ivanov, A.A. Nekrasov, S.A. Vorobev, O.D. Omelchenko, A.V. Vannikov, Dominating influence of rigid-backbone polyacid matrix during electropolymerization of aniline in the presence of mixtures of poly(sulfonic acids), *Electrochim. Acta* 56 (2011) 3460-3467. ISSN: 00134686
- V. Tsakova, in *Metal-based composites of conducting polymers (глава от книга Nanostructured Conductive Polymers*, ed. by A. Eftekhari, John Wiley&Sons, 2010, ISBN 978-0-470-74585-4, p. 289-340.
66. G. Ciric-Marjanovic, B. Marjanović, P. Bober, Z. Rozlívková, J. Stejskal, M. Trchová, J. Prokeš, The oxidative polymerization of p-phenylenediamine with silver nitrate: Toward highly conducting micro/nanostructured silver/conjugated polymer composites, *J. Polym. Sci. A*, 49 (2011) 3387-3403. ISSN: 0887624X.
- A. Stoyanova, V. Tsakova, Copper-modified poly(3,4-ethylenedioxythiophene) layers for selective determination of dopamine in the presence of ascorbic acid, II. Role of the characteristics of the metal deposit, *J. Solid State Electrochem.*, 14 (2010) 1957-1965. ISSN: 1432-8488 (print version)
67. *Nanocoatings: Size Effect in Nanostructured Films*, by M. Aliofkhaezai, Springer Verlag, Berlin-Heidelberg, 2011, p.182. ISBN-10: 3642179657, ISBN-13: 978-3642179655
68. A. Naseri, M.R. Majidi, Cheap and easy modification of glassy carbon electrode for voltammetric determination of dopamine in the presence of ascorbic acid ,*DARU J. Pharm. Sci.*19 (2011) 270-276. ISSN: 15608115.
- Vessela Tsakova, Svetlozar Ivanov, Electroanalytical applications of nanocomposites from conducting polymers and metallic nanoparticles prepared by layer-by-layer deposition, Ulrich Lange, Aneliya Stoyanova, Vladimir Lyutov, Vladimir M. Mirsky, *Pure Appl. Chem.*, 83 (2011) 345–358. ISSN printed 0033-4545, ISSN electronic 1365-3075
69. P. Kannan, S.A. John, Fabrication of conducting polymer-gold nanoparticles film on electrodes using monolayer protected gold nanoparticles and its electrocatalytic application, *Electrochim. Acta* 56 (2011) 7029-7037. ISSN: 00134686.

70. B. Zanfognini, C. Zanardi, F. Terzi, T. Aaritalo, A. Viinikonoja, J. Lukkari, R. Seeber, Layer-by-layer deposition of polythiophene/Au nanoparticles multilayer with effective electrochemical properties, *J. Solid State Electrochem.*, 15 (2011) 2395-2400. ISSN: 1432-8488 (print version)
- Svetlozar Ivanov, Ulrich Lange; Vessela Tsakova, Vladimir M. Mirsky, Electrochemically active nanocomposite from palladium nanoparticles and polyaniline: oxidation of hydrazine, *Sensors and Actuators B*, 150 (2010) 271–278. ISSN: 0925-4005
71. J. Panchompoo, L. Aldous, C. Downing, A. Crossley, R.G. Compton, Irreversible uptake of palladium from aqueous systems using l-cysteine methyl ester physisorbed on carbon black, *Electroanalysis* 23 (2011) 1568-1578. ISSN: 10400397.
72. M. Hadi, A. Rouhollahi, M. Yousefi, Nanocrystalline graphite-like pyrolytic carbon film electrode for electrochemical sensing of hydrazine, *Sens. Actuators, B* 160 (2011) 121-128. ISSN: 09254005.
- 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.
73. Y.-Z. Xu, Y.-R. Zhang, J.-F. Zheng, C. Guo, Z.-J. Niu, Z.-L. Li, Assembly of aggregated colloidal gold nanoparticles on gold electrodes by in situ produced H⁺ ions for SERS substrates *Int. J. Electrochem. Sci.* 6 (2011) 664-672. ISSN: 14523981.
74. H. Beitollahi, I. Sheikhshoae, Electrochemical and simultaneous determination of isoproterenol, uric acid and folic acid at molybdenum (VI) complex-carbon nanotube paste electrode, *Electrochim. Acta* 56 (2011) 10259-10263. ISSN: 00134686.
- A. Milchev, *Electrocrystallization: Fundamentals of Nucleation and Growth*, Kluwer Academic Publishers, Boston/Dordrecht/London, 2002., ISBN 1-4020-7090-X
75. V. Saez, E. Marchante, M.I. Díez, M.D. Esclapez, P. Bonete, T. Lana-Villarreal, J. González García, A study of the lead dioxide electrocrystallization mechanism on glassy carbon electrodes. Part I: Experimental conditions for kinetic control, *Materials Chemistry and Physics*, 125(1-2)(2011)46. ISSN: 02540584
76. Hernandez-Espejel, A., Palomar-Pardavé, M., Cabrera-Sierra, R., Romero-Romo, M., Ramírez-Silva, M.T., Arce-Estrada, E.M., Kinetics and Mechanism of the Electrochemical Formation of Iron Oxidation Products on Steel Immersed in Sour Acid Media; *J. Phys. Chem. B*, 115(8)(2011)1833-1841. ISSN: 15206106
77. Sen, R., Das, S., Das, K., The effect of bath temperature on the crystallite size and microstructure of Ni-CeO₂ nanocomposite coating, *Materials Characterization*, 62(3)(2011)257; ISSN: 10445803
78. Cavallotti, P.L., Nobili, L., Franz, S., Vincenzo, A., Fundamental aspects and applications of electrodeposited nanostructured metals, *Pure and Applied Chemistry*, 83(2)(2011) 281-294; ISSN: 00334545.
79. Elias, J., Brodard, P., Vernooij, M.G.C., Michler, J., Philippe, L., Gold flails by electrochemical deposition: The role of gelatin, *Electrochim. Acta* 56(3)(2011)1485-1489; ISSN: 00134686
80. M. Palomar-Pardavé, E. Garfias-García, M. Romero-Romo, M. Ramírez-Silva, N. Batina, Influence of the substrate's surface structure on the mechanism and kinetics of the electrochemical UPD formation of a copper monolayer on gold, *Electrochimica Acta*, 56(27)(2011)10083-10092; ISSN: 00134686
81. Tanase, S.I., Pinzaru, D., Pascariu, P., Dobromir, M., Sandu, A.V., Georgescu, V., Effect of nitrogen addition on the morphology, magnetic and magnetoresistance properties of electrodeposited Co, Ni and Co-Ni granular thin films onto aluminum substrates, *Materials Chemistry and Physics* 130(1-2) (2011) 327-333; ISSN: 02540584
- S. Toshev, A. Milchev, S. Stoyanov, On some probabilistic aspects of the nucleation process, *J. Cryst. Growth*, 13/14(1972)123-127; ISSN: 00220248
82. Abay, H.K., Svartaas, T.M., Multicomponent gas hydrate nucleation: The effect of the cooling rate and composition, *Energy and Fuels*, 25(1)(2011)42-51; ISSN: 08870624
83. Kadam, S.S., Kramer, H.J.M., Ter Horst, J.H., Combination of a single primary nucleation event and secondary nucleation in crystallization processes, *Crystal Growth and Design*, 11(4)(2011)1271-1277; ISSN: 15287483;
- Chr. Nanev, A. Milchev, Silver-mercury whiskers, *Physica Status Solidi*, (a) 12(1972)291-297; ISSN: 00318965

84. Danhel, A., Mansfeldova, V., Janda, P., Vyskocil, V., Barek, J., Crystalline silver amalgam – a novel electrode material, *Analyst* 136(18)(2011) 3656-3662; ISSN: 00032654
- A. Milchev, S. Stoyanov, R. Kaishev, Atomistic theory of electrolytic nucleation-I, *Thin Solid Films*, 22(1974)255-265; ISSN: 00406090
85. Sen, R., Das, S., Das, K., The effect of bath temperature on the crystallite size and microstructure of Ni-CeO₂ nanocomposite coating, *Materials Characterization*, 62(3)(2011)257; ISSN: 10445803
86. Zhang, Q., Hua, Y., Nucleation and growth of zinc on aluminum from acidic sulfate solution with [BMIM]HSO₄ as additive, *Journal of Applied Electrochemistry*, 41(6)(2011)705-712; ISSN: 0021891X
- A. Milchev, S. Stoyanov, Classical and atomistic models of electrolytic nucleation - comparison with experimental data, *J. Electroanal. Chem.*, 72(1976)33-43; ISSN: 03681874
87. Zhang, Q., Hua, Y., Nucleation and growth of zinc on aluminum from acidic sulfate solution with [BMIM]HSO₄ as additive, *Journal of Applied Electrochemistry*, 41(6)(2011)705-712; ISSN: 0021891X
- A. Milchev, E. Vassileva, V. Kertov, Electrolytic nucleation of silver on a glassy carbon electrode Part.I. Mechanism of critical nucleus formation, *J. Electroanal. Chem.*, 107(1980)323-336; ISSN: 03681874
88. Hubenova, Y.V., Rashkov, R.S., Buchvarov, V.D., Arnaudova, M.H., Babanova, S.M., Mitov, M.Y., Improvement of yeast-biofuel cell output by electrode modifications *Industrial and Engineering Chemistry Research*, 50(2)(2011)557; ISSN: 08885885
89. Basile, A., Bhatt, A.I., O'Mullane, A.P., Bhargava, S.K., An investigation of silver electrodeposition from ionic liquids: Influence of atmospheric water uptake on the silver electrodeposition mechanism and film morphology, *Electrochim. Acta* 56(7)(2011) 2895-2905; ISSN: 00134686
90. Bian, J.-C., Li, Z., Chen, Z.-D., He, H.-Y., Zhang, X.-W., Li, X., Han, G.-R., Electrodeposition of silver nanoparticle arrays on ITO coated glass and their application as reproducible surface-enhanced Raman scattering substrate, *Applied Surface Science*, 258(5)(2011) 1831-1835; ISSN: 01694332
- E. Michailova, A. Milchev, Nucleation and growth kinetics of Ag₇NO₁₁ on a platinum single crystal electrode, *J. Appl. Electrochem.*, 18(1988)614-618; ISSN: 0021891X
91. Rodijk, E.J.B., Maijenburg, A.W., Maas, M.G., Blank, D.H.A., Ten Elshof, J.E., Templated electrodeposition of Ag₇NO₁₁ nanowires with very high oxidation states of silver, *Materials Letters* 65(23-24)(2011) 3374-3376; ISSN: 0167577X
- R. Salvarezza, A.J. Arvia, A. Milchev, Spatial distribution of pits on stainless steel, *Electrochim. Acta*, 35(1990)289-290; ISSN: 00134686
92. Chookah, M., Nuhi, M., Modarres, M., A probabilistic physics-of-failure model for prognostic health management of structures subject to pitting and corrosion-fatigue, *Reliability Engineering and System Safety*, 96(12)(2011)1601-1610; ISSN: 09518320
- E. Michailova, A. Milchev, Influence of potassium sodium tartrate on the initial stage of silver electrodeposition, *J. Appl. Electrochem.*, 21(1991)170-174. ISSN: 0021891X
93. Yue, J.-P., Yang, F.-Z., Tian, Z.-Q., Zhou, S.-M., Electrocrystallization of Pd-Ni alloys on glassy carbon electrode, *Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica*, 27(6)(2011) 1446-1450; ISSN: 10006818
- A galvanostatic study of electrochemical nucleation, A. Milchev, M.I. Montenegro, *J. Electroanal. Chem.*, 333(1992)93-102; ISSN: 00220728
94. Gómez, E., Cojocar, P., Magagnin, L., Valles, E., Electrodeposition of Co, Sm and SmCo from a Deep Eutectic Solvent, *J. Electroanal. Chem.*, 658(1-2)(2011)18-24; ISSN: 15726657
- E. Michailova, I. Vitanova, D. Stoychev, A. Milchev, Initial stage of copper electrodeposition in the presence of organic additives, *Electrochim. Acta*, 38(1993)2455-2458. ISSN: 00134686
95. Morn, L.E., Méndez, A., Ballesteros, J.C., Antao-Lpez, R., Orozco, G., Meas, Y., Ortega-Borges, R., Trejo, G., Zn electrodeposition from an acidic chloride bath containing polyethyleneglycol (Mw 200) and benzylideneacetone as additives, *J. Electrochem. Soc.*, 158(7)(2011)D435-D444; ISSN: 00134651
96. Zhang, Q., Hua, Y., Nucleation and growth of zinc on aluminum from acidic sulfate solution with [BMIM]HSO₄ as additive, *Journal of Applied Electrochemistry*, 41(6)(2011)705-712; ISSN: 0021891X

97. Phuong, N.V., Kwon, S.-C., Lee, J.-Y., Shin, J., Huy, B.T., Lee, Y.-I., Mechanistic study on the effect of PEG molecules in a trivalent chromium electrodeposition process *Microchemical, Journal*, 99(1)(2011)7-14; ISSN: 0026265X
- A.Milchev, On the spatial and temporal distribution of clusters, *J.Chem.Phys.*, 100(1994)5160-5164; ISSN: 00219606
98. Tournus, F., Random nanoparticle deposition: Inter-particle distances in 2D, 3D, and multilayer samples, *Journal of Nanoparticle Research*, 13(10)(2011)5211-5223. ISSN: 13880764
- 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
99. Karahan, I.H., Cetinkara, H.A., Study of effect of boric acid on Zn-Co alloy electrodeposition from acid baths and on composition, morphology and structure of deposit, *Transactions of the Institute of Metal Finishing*, 89(2)(2011) 99-103; ISSN: 00202967
100. Morn, L.E., Méndez, A., Ballesteros, J.C., Antao-Lpez, R., Orozco, G., Meas, Y., Ortega-Borges, R., Trejo, G. Zn electrodeposition from an acidic chloride bath containing polyethyleneglycol (Mw 200) and benzylideneacetone as additives, *J.Electrochem.Soc.*, 158(7)(2011)D435-D444; ISSN: 00134651
101. Zhang, Q., Hua, Y., Nucleation and growth of zinc on aluminum from acidic sulfate solution with [BMIM]HSO₄ as additive, *Journal of Applied Electrochemistry*, 41(6)(2011)705-712; ISSN: 0021891X
102. Méndez, A., Moron, L.E., Ortiz-Frade, L., Meas, Y., Ortega-Borges, R., Trejo, G., Thermodynamic studies of PEG (Mw 20,000) adsorption onto a polycrystalline gold electrode, *J.Electrochem. Soc.* 158(4)(2011) F45-F51; ISSN: 00134651
- A.Milchev, Electrochemical alloy formation-theory of progressive and instantaneous nucleation without overlap, *Electrochim. Acta*, 42(1997)1533-1536; ISSN: 00134686
103. Tanase, S.I., Pinzaru, D., Pascariu, P., Dobromir, M., Sandu, A.V., Georgescu, V., Effect of nitrogen addition on the morphology, magnetic and magnetoresistance properties of electrodeposited Co, Ni and Co-Ni granular thin films onto aluminum substrates, *Materials Chemistry and Physics* 130(1-2) (2011) 327-333; ISSN: 02540584
- A.Kelaidopoulou, G.Kokkinidis, A.Milchev, Nucleation and growth of metal catalysts. Part I. Electrodeposition of platinum on tungsten, *J.Electroanal.Chem.*, 444(1998)195-201, ISSN: 00220728
104. Wang, P., Olbricht, W.L., Study on electrodeposition of Pt, *Surface Engineering*, 27(9)(2011)662-670. ISSN: 02670844
105. Li, J., Sun, M.-X., Zhang, X.-Y., Cui, X.-L., Counter electrodes for dye-sensitized solar cells, *Wuli Huaxue Xuebao/Acta Physico – Chimica Sinica* , 27(10)(2011)2255-2268; ISSN: 10006818
106. Ouf, A.M.A., Ibrahim, A.A., El-Shafei, A.A., Reactivity of the Pt/WO₃/GC Electrode Towards Ethylene Glycol Oxidation in 0.1M H₂SO₄, *Electroanalysis*, 23(8)(2011)1998-2006. ISSN: 10400397
- 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
107. Zhumaev, U.E., Maksimov, Y.M., Podlovchenko, B.I., Galvanic replacement of copper adatoms from a Pt/Pt electrode surface in H₂PtCl₆ solutions, *Mendeleev Communications*, 21(1)(2011)29-30; ISSN: 09599436
108. Kuang, Y.J. , Wu, B.H., Cui, Y., Yu, Y.M., Zhang, X.H., Chen, J.H., Preparation of hollow platinum nanospheres/carbon nanotubes nanohybrids and their improved stability for electro-oxidation of methanol, *Electrochim.Acta*, 56(24)(2011)8645-8650; ISSN: 00134686
- M.Arbib, B.Zhang, V.Lazarov, D.Stoychev, A.Milchev, Cl.Buess- Herman, Electrochemical nucleation and growth of rhodium on gold substrates *J. Electroanal. Chem.*, 510(2001)67-77; ISSN: 00220728
109. Morn, L.E., Méndez, A., Ballesteros, J.C., Antao-Lpez, R., Orozco, G., Meas, Y., Ortega- Borges, R., Trejo, G., Zn electrodeposition from an acidic chloride bath containing polyethyleneglycol (Mw 200) and benzylideneacetone as additives, *J.Electrochem.Soc.*, 158(7)(2011)D435-D444; ISSN: 00134651
110. Losiewicz, B., Jurczakowski, R., Lasia, A., Kinetics of hydrogen underpotential deposition at polycrystalline rhodium in acidic solutions *Electrochimica Acta*, 56(16)(2011)5746-5753; ISSN: 00134686

- G.Kokkinidis, D.Stoychev, V.Lazarov, A.Papoutsis, A.Milchev, Electroless deposition of Pt on Ti Part II. Catalytic activity for oxygen reduction, *J.Electroanal.Chem.*, 511(2001)20-30; ISSN: 00220728
111. Podlovchenko, B.I., Zhumaev, U.E., Maksimov, Y.M., Galvanic displacement of copper adatoms on platinum in PtCl₄²⁻ solutions, *J. Electroanal. Chem.* 651(2011)30; ISSN: 15726657
112. Lewera, A., Timperman, L., Roguska, A., Alonso-Vante, N., Metal-support interactions between nanosized Pt and metal oxides (WO₃ and TiO₂) studied using X-ray photoelectron spectroscopy, *J.Phys.Chem. C*, 115(41)(2011) 20153-20159. ISSN: 19327447
- D.Stoychev, A.Papoutsis, A.Kelaidopoulou, G.Kokkinidis, A.Milchev, Electrodeposition of platinum on metallic and nonmetallic substrates – selection of experimental conditions, *Materials Chemistry and Physics*, 72(2001)360-365; ISSN: 02540584
113. Thotiyl, M.M.O., Sampath, S., Electrochemical oxidation of ethanol in acid media on titanium nitride supported fuel cell catalysts, *Electrochim.Acta* 56(10)(2011)3549-3554; ISSN: 00134686
114. Zhang, D., Chang, W.C., Okajima, T., Ohsaka, T., Electrodeposition of platinum nanoparticles in a room-temperature ionic liquid, *Langmuir*, 27(23)(2011)14662-14668. ISSN: 07437463
115. Wang, P., Olbricht, W.L., Study on electrodeposition of Pt, *Surface Engineering*, 27(9)(2011)662-670. ISSN: 02670844
- A.I.Milchev, A.A.Milchev, Wetting behavior of nanodroplets: The limits of Young's rule validity, *Europhysics Letters*, 56(5)(2001)695-701; ISSN: 02955075
116. Léonforte, F., Müller, M., Statics of polymer droplets on deformable surfaces, *Journal of Chemical Physics*, 135(21)(2011)Article number 214703. ISSN: 00219606
- Andrey Milchev, Alexander Milchev, Kurt Binder, Nanodroplets on a solid plane: wetting and spreading in a Monte Carlo simulation, *Computer Phys. Commun.*, 46(2002)38. ISSN: 00104655
117. Granasy, L., Tegze, G., Toth, G.I., Pusztai, T., Phase-field crystal modelling of crystal nucleation, heteroepitaxy and patterning, *Philosophical Magazine* 91(1)(2011)123 ISSN: 14786435
- Alexander Milchev, Luc Heerman, Electrochemical nucleation and growth of nano- and microparticles: some theoretical and experimental aspects, *Electrochimica Acta*, 48(2003)2903; ISSN: 00134686
118. Ballesteros, J.C., Chainet, E., Ozil, P., Meas, Y., Trejo, G., Electrodeposition of copper from non-cyanide alkaline solution containing tartrate, *International J.Electrochem. Sci.* 6(7)(2011) 2632-2651; ISSN: 14523981
119. Morn, L.E., Méndez, A., Ballesteros, J.C., Antao-Lpez, R., Orozco, G., Meas, Y., Ortega-Borges, R., Trejo, G. Zn electrodeposition from an acidic chloride bath containing polyethyleneglycol (Mw 200) and benzylideneacetone as additives, *J.Electrochem.Soc.*, 158(7)(2011)D435-D444; ISSN: 00134651
120. Mentar, L., Khelladi, M.R., Azizi, A., Schmerber, G., Dinia, A., Electrocrystallisation of cobalt, copper and cobalt-copper alloys on fluorine-doped tin oxide electrodes, *Transactions of the Institute of Metal Finishing*, 89(3)(2011) 143-150. ISSN: 00202967
121. Mentar, L., Early stages of cobalt-copper alloys electrodeposition onto fluorine-doped tin oxide electrodes in sulfate solution, *Oriental Journal of Chemistry*, 27(2011) 477-483. ISSN: 0970020X
- Alexander Milchev, Theodora Zapryanova, Nucleation and growth of copper under combined charge transfer and diffusion limitations. Part I, *Electrochimica Acta*, 51(2006)2926. ISSN:00134686
122. V. Saez, E. Marchante, M.I. Díez, M.D. Esclapez, P. Bonete, T. Lana-Villarreal, J.González García, J. Mostany, A study of the lead dioxide electrocrystallization mechanism on glassy carbon electrodes. Part I: Experimental conditions for kinetic control, *Materials Chemistry and Physics*, 125(1-2)(2011)46. ISSN: 02540584
123. Palomar-Pardavé, M., Garfias-García, E., Romero-Romo, M., Ramírez-Silva, M.T., Batina, N., Influence of the substrate's surface structure on the mechanism and kinetics of the electrochemical UPD formation of a copper monolayer on gold, *Electrochimica Acta*, 56(27)(2011)10083-10092; ISSN: 00134686
124. Devillers, S., Lemineur, Q., Delhalle, J., Mekhalif, Z., Induction vs. conventional heating: Impact on the morphology and crystallinity of copper electrodeposits on nickel, *J.Electrochem.Soc.*, 158(11)(2011) E111-E118; ISSN: 00134651
125. Ballesteros, J.C., Chainet, E., Ozil, P., Meas, Y., Trejo, G. Electrodeposition of copper from non-cyanide alkaline solution containing tartrate, *International J.Electrochem. Sci.* 6(7)(2011) 2632-2651; ISSN: 14523981

126. Devillers, S., Lemineur, Q., Delhalle, J., Mekhalif, Exploratory study of copper particles electrodeposition on nickel by induction heating, *Z., Electrochim.Acta*, 56(14)(2011)4953- 4959; ISSN: 00134686
127. Bian, J.-C., Li, Z., Chen, Z.-D., He, H.-Y., Zhang, X.-W., Li, X., Han, G.-R Electrodeposition of silver nanoparticle arrays on ITO coated glass and their application as reproducible surface-enhanced Raman scattering substrate., *Applied Surface Science*, 258(5)(2011) 1831-1835; ISSN: 01694332
- A.Milchev, T.Zapryanova, Nucleation and growth of copper under combined charge transfer and diffusion limitations. Part II, *Electrochimica Acta* 51(2006)4916; ISSN: 00134686
128. Palomar-Pardavé, M., Garfias-García, E., Romero-Romo, M., Ramírez-Silva, M.T., Batina, N., Influence of the substrate's surface structure on the mechanism and kinetics of the electrochemical UPD formation of a copper monolayer on gold, *Electrochimica Acta*, 56(27)(2011)10083-10092; ISSN: 00134686
129. Devillers, S., Lemineur, Q., Delhalle, J., Mekhalif, Z., Induction vs. conventional heating: Impact on the morphology and crystallinity of copper electrodeposits on nickel , *J.Electrochem.Soc.*, 158(11)(2011) E111-E118; ISSN: 00134651
130. Ballesteros, J.C., Chainet, E., Ozil, P., Meas, Y., Trejo, G. Electrodeposition of copper from non-cyanide alkaline solution containing tartrate, *International J.Electrochem. Sci.*, 6(7)(2011) 2632-2651; ISSN: 14523981
131. Devillers, S., Lemineur, Q., Delhalle, J., Mekhalif, Z., Exploratory study of copper particles electrodeposition on nickel by induction heating, *Electrochim.Acta*, 56(14)(2011)4953-4959, ISSN: 00134686
- T.Zapryanova, A.Hrussanova, A.Milchev, Nucleation and growth of copper on glassy carbon: Studies in extended overpotential interval, *J.Electroanal.Chem.*, 600(2007)311; ISSN: 00220728
132. Devillers, S., Lemineur, Q., Delhalle, J., Mekhalif, Z., Induction vs. conventional heating: Impact on the morphology and crystallinity of copper electrodeposits on nickel , *J.Electrochem.Soc.*, 158(11)(2011) E111-E118; ISSN: 00134651
133. Valdés-Ramírez, G., Ramírez-Silva, M.T., Palomar-Pardavé, M., Romero-Romo, M., Álvarez- Romero, G.A., Hernández-Rodríguez, P.R., Marty, J.L., Juárez-García, J.M., Design and construction of solid state Ag/AgCl reference electrodes through electrochemical deposition of Ag and AgCl onto a graphite/epoxy resin-based composite. Parte 1: Electrochemical deposition of Ag onto a graphite/epoxy resin-based composite, *International J.Electrochem. Sci.* 6(4)(2011)971-987; ISSN: 14523981
134. Ballesteros, J.C., Chainet, E., Ozil, P., Meas, Y., Trejo G., Electrodeposition of copper from non-cyanide alkaline solution containing tartrate, *International J.Electrochem. Sci.* 6(7)(2011) 2632-2651; ISSN: 14523981
- T.Zapryanova, N.Jordanov, A.Milchev, Electrochemical growth of single copper crystals on glassy carbon and tungsten Substrates, *J.Electroanal.Chem.*, 612(2008)47; ISSN: 00220728
135. Gros, F., Baup, S. , Aurousseau, M., Copper cementation on zinc and iron mixtures: Part 1: Results on rotating disc electrode, *Hydrometallurgy* 106(1-2)(2011)119-126; ISSN: 0304386X
- A.Milchev, Electrocrystallization: nucleation and growth of nano-clusters on solid surfaces, *Russian Journal of Electrochemistry*, 44(6)(2008)619-645; ISSN: 10231935
136. V.Gorshkov, O.Zavalov, P.B.Atanassov, V.Privman, Morphology of nanoclusters and nanopillars formed in nonequilibrium surface growth for catalysis applications, *Langmuir* 27(13)(2011) 8554-8561; ISSN: 07437463
137. V.Agmo Hernández, G.Karlsson, K.Edwards, Intrinsic heterogeneity in liposome suspensions caused by the dynamic spontaneous formation of hydrophobic active sites in lipid membranes, *Langmuir* 27 (8) (2011) 4873-4883; ISSN: 07437463
- V.A.Hernandez, M.Hermes, A.Milchev, F.Scholz, The overall adhesion-spreading process of liposomes on a mercury electrode is controlled by a mixed diffusion and reaction kinetics mechanism, *J.Solid State Electrochemistry*, 13(2009)639-649; ISSN: 14328488
138. Z.Coldrick, A. Penezić, B. Gašparović, P.Steenson, J.Merrifield, A.Nelson, High throughput systems for screening biomembrane interactions on fabricated mercury film electrodes, *J. Appl. Electrochem.*, 41(8)(2011)939-949; ISSN: 0021891X
- M. Ilieva, D. Dimova-Malinovska, B. Ranquelov, I. Markov, High temperature electrodeposition of CdS thin films on conductive glasses *J. Physics: Condens. Matter* 11, 49 (1999) 10025-10031, ISSN: 0953-8984

139. H.N. Chen, A.M. Qin, L. Liao, P. Tang, Q. Pang, Electrodeposited Crack-Free CdS Thin Films Using Organic Solvents, *Advanced Materials Research*, 194-196, (2011), 2404-2408, ISSN: 1022-6680
- Ranguelov, B., Altman, M.S., Markov, I., Critical terrace width for step flow growth: Effect of attachment-detachment asymmetry and step permeability, *Phys. Rev. B*, Volume 75, Issue 24, 18 June 2007, Article number 245419, ISSN: 10980121
140. Zauska-Kotur, M.A., Krzyewski, F., Krukowski, S., Double step structure and meandering due to the many body interaction at GaN(0001) surface in N-rich conditions *Journal of Applied Physics* 109 (2), (2011), art. no. 023515, ISSN: 0021-8979
- Ranguelov, B., Stoyanov, S., Instability of vicinal crystal surfaces with transparent steps: Transient kinetics and non-local electromigration, *Surface Science*, Volume 603, Issue 18, 15 September 2009, Pages 2907-2911, ISSN: 00396028
141. Usov, V., Coileain, C.O., Shvets, I.V., Experimental quantitative study into the effects of electromigration field moderation on step bunching instability development on Si(111) *Phys. Rev. B* (15), (2011) art. no. 155321, ISSN: 10980121
- Tonchev, V., Ranguelov, B., Omi, H., Pimpinelli, A., Scaling and universality in models of step bunching: The c+-c- model, *European Physical Journal B*, Volume 73, Issue 4, February 2010, Pages 539-546, ISSN: 1434-6028
142. Usov, V., Coileain, C.O., Shvets, I.V., Experimental quantitative study into the effects of electromigration field moderation on step bunching instability development on Si(111) *Phys. Rev. B* 83 (15), (2011) art. no. 155321, ISSN: 10980121,
143. Musumeci, C., Luzio, A., Pradeep, C.P., Miras, H.N., Rosnes, M.H., Song, Y.-F., Long, D.-L., Pignataro, B., Programmable surface architectures derived from hybrid polyoxometalate- based clusters, *Journal of Physical Chemistry C* 115 (11), (2011), 4446-4455, ISSN: 1932-7447,
- M. Ilieva, D. Dimova-Malinovska, B. Ranguelov, I. Markov, High temperature electrodeposition of CdS thin films on conductive glasses, *J. Physics: Condens. Matter* 11 No 49 (1999) 10025-10031, ISSN 0953-8984
144. F. Ouachtari, A. Rmili, Sidi El Bachir Elidrissi, A. Bouaoud, H. Erguig, Philippe Elies Influence of Bath Temperature, Deposition Time and [S]/[Cd] Ratio on the Structure, Surface Morphology, Chemical Composition and Optical Properties of CdS Thin Films Elaborated by Chemical Bath Deposition *Journal of Modern Physics*, 2 (2011) 1073-1082, ISSN: 21531196
- C.N. Nanev, Protein crystal nucleation: Recent notions, *Crystal Research and Technology*. 42 (2007) 4-12. ISSN: 0232-1300
145. Saridakis, E., Khurshid, S., Govada, L., Phan, Q., Hawkins, D., Crichlow, G.V., Lolis, E., Chayen, N.E., Protein crystallization facilitated by molecularly imprinted polymers, *PNAS*, 108 (2011), 11081-11086. ISSN-0027-8424
146. M. Okuda, Y. Suzumoto, I. Yamashita, Bioinspired Synthesis of Homogenous Cerium Oxide Nanoparticles and Two- or Three-Dimensional Nanoparticle Arrays Using Protein Supramolecules, *Cryst. Growth Des.*, 11 (2011) 2540-2545. ISSN: 1528-7483
147. H. Xiao, L. Dang, Z. Wang, Crystal morphology and molecular interaction of lysozyme affected by imidazolium-based ionic liquids in aqueous solutions, *5th International Conference on Bioinformatics and Biomedical Engineering*, (2011) art. no. 5780030. *iCBBE 2011*.
148. G. Tosi, S. Fermani, G. Falini, J.A. Gavira, J.-M. Garcia Ruiz, Hetero- vs homo-geneous nucleation of protein crystals discriminated by supersaturation, *Cryst. Growth Des.*, 11 (2011) 1542-1548. ISSN: 1528-7483
- Christo Nanev, On the slow kinetics of protein crystallization, *Crystal Growth and Design*, 7 (2007) 533-1540. ISSN: 1528-7483
149. E. Kougoulos, I. Smales, H.M. Verrier, Towards Integrated Drug Substance and Drug Product Design for an Active Pharmaceutical Ingredient Using Particle Engineering, *AAPS PHARMSCITECH*, 12 (2011) 287-294. ISSN: 1530-9932
150. C. Ferreira, R. Crespo, P.M. Martins, L. Gales, F. Rocha, A.M. Damas, Small temperature oscillations promote protein crystallization, *CrystEngComm*, 13 (2011) 3051-3056. ISSN · 1466-8033

151. E. Saridakis, S. Khurshid, L. Govada, Q. Phan, D. Hawkins, G.V. Crichlow, E. Lolis, S.M. Reddy, N.E. Chayen, Protein crystallization facilitated by molecularly imprinted polymers, *PNAS*, 108 (2011) no. 27, 11081-11086. ISSN-0027-8424
152. G. Tosi, S. Fermani, G. Falini, J.A. Gavira, J.-M. Garcia Ruiz, Hetero- vs homo-geneous nucleation of protein crystals discriminated by supersaturation, *Cryst. Growth Des.*, 11 (2011) 1542–1548. ISSN: 1528-7483
153. V. Privman, Fine particles in medicine and pharmacy, (Ed. Egon Matijevich), Chapter 1: Models of Size and Shape Control in Synthesis of Uniform Colloids and Nanocrystals, Springer, 2011. ISBN 978-1-4614-0378-4
- C.N. Naney, Polyhedral instability - Skeletal and dendritic growth, *Progress in crystal growth and characterization of materials*, 35 (1997) 1-26. ISSN: 0960-8974
154. P. Cubillas, M.A. Holden, M.W. Anderson, Crystal growth studies on microporous zincophosphate-faujasite using atomic force microscopy, *Crystal Growth and Design* 11 (2011) 3163-3171. ISSN: 1528-7483
- C.N. Naney, How do crystal lattice contacts reveal protein crystallization mechanism?, *Crystal Research and Technology*, 43 (2008) 914-920. ISSN: 0232-1300
155. M Gromov, Crystals, proteins, stability and isoperimetry, *Bulletin of the American Mathematical Society* 48 (2011) 229-257. ISSN: 0273-0979
156. R. Chen, J. Liu, Q. Lu, Y. Liu, D. Yin, Effects of physical environments on nucleation of protein crystals: a review, *Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology* 27 (2011) 9-17. ISSN: 10003061
- C.N. Naney, A. Penkova, Nucleation of lysozyme crystals under external electric and ultrasonic fields, *J. Cryst. Growth*, 232 (2001) 285–293. ISSN: 0022-0248
157. G. Gil-Alvaradejo, R.R. Ruiz-Arellano, C. Owen, A. Rodríguez-Romero, E. Rudiño-Piñera, M.K. Antwi, V. Stojanoff, A. Moreno, *Cryst. Growth & Design*, 11 (2011) 3917–3922. ISSN: 1528-7483
158. T. Wakamatsu, Y. Ohnishi, Transparent Cell for Protein Crystallization under Low Applied Voltage, *Japanese Journal of Applied Physics*, 50 (2011) art. no. 048003. ISSN: 0021-4922
159. H. Koizumi, S. Uda, K. Fujiwara, et al., Control of Effect on the Nucleation Rate for Hen Egg White Lysozyme Crystals under Application of an External ac Electric Field, *Langmuir*, 27 (2011) 8333-8338. ISSN 0743-7463
160. J. Tsui, J., Hulliger, Growth of intrinsically polar crystalline textures of phosphangulene by organic molecular beam deposition, *Crystal Growth and Design* 11 (2011) 3328-3331. ISSN: 1528-7483
161. R. Chen, J. Liu, Q. Lu, Y. Liu, D. Yin, Effects of physical environments on nucleation of protein crystals: a review, *Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology* 27 (2011) 9-17. ISSN: 10003061
162. T. Wakamatsu, S. Toyoshima, H. Shimizu, Observation of electric-field induced aggregation in crystallizing protein solutions by forward light scattering, *Appl. Phys. Lett.* 99 (2011) art. No. 153701. ISSN 0003-6951
- D. Tsekova, S. Dimitrova, C.N. Naney, Heterogeneous nucleation (and adhesion) of lysozyme crystals, *Journal of Crystal Growth*, 196 (1999) 226–233. ISSN: 0022-0248
163. T. Delmas, M.M. Roberts, J.Y.Y. Heng, Nucleation and crystallization of lysozyme: Role of substrate surface chemistry and topography, *Journal of Adhesion Science and Technology* 25 (2011) 357-366. ISSN 0169-4243
164. M. Idefonso, N. Candoni, S. Veessler, Using Microfluidics for Fast, Accurate Measurement of Lysozyme Nucleation Kinetics, *Cryst. Growth Des.* 11 (2011) 1527–1530. ISSN: 1528-7483
- C.N. Naney, D. Tsekova, Heterogeneous nucleation of hen-egg-white lysozyme - molecular approach, *Crystal Research and Technology*, 35(2000) 189-195. ISSN: 0232-1300
165. G. Tosi, S. Fermani, G. Falini, J.A. Gavira, J.-M. Garcia Ruiz, Hetero- vs homo-geneous nucleation of protein crystals discriminated by supersaturation, *Cryst. Growth Des.*, 11 (2011) 1542–1548. ISSN: 1528-7483
- D. Tsekova, S. Popova, C.N. Naney, Nucleation rate determination by a concentration pulse technique: application on ferritin crystals to show the effect of surface treatment of a substrate, *Acta Crystallographica Section D - Biological Crystallography*, 58 (2002) 1588-1592. ISSN:0907-4449

166. E. Saridakis, S. Khurshid, L. Govada, Q. Phan, D. Hawkins, G.V. Crichlow, E. Lolis, S.M. Reddy, N.E. Chayen, Protein crystallization facilitated by molecularly imprinted polymers, *PNAS* 108 (2011) no. 27 11081-11086. ISSN-0027-8424
- A. Penkova, N. Chayen, E. Saridakis, C.N. Nanev, Nucleation of protein crystals in a wide continuous supersaturation gradient, *Acta Crystallographica D*, D58 (2002) 1606-1610, ISSN:0907-4449
167. S. Stolyarova, <http://www.sciencedirect.com/science/article/pii/S0022024811010220> - Cor1#Cor1 E. Baskin, Y. Nemirovsky, Enhanced crystallization on porous silicon: facts and models, *Journal of Crystal Growth*, Manuscript in Press (2011), doi:10.1016/j.jcrysgro.2011.12.003. ISSN: 0022-0248
- F. Hodzhaoglu, F. Kurniawan, V. Mirsky, Chr. Nanev, *Cryst. Res. & Technol.*, 43 (2008) 588. ISSN: 0232-1300
168. S.K. Chong, B.T. Goh, Z. Aspanut, M.R. Muhamad, C.F. Dee, S.A. Rahman, *Applied Surface Science*, 257 (2011) 3320-3324. ISSN: 0169-4332
169. H. Wei, Z. Wang, J. Zhang, S. House, Y.-G. Gao, L. Yang, H. Robinson, L.H. Tan, H. Xing, C. Hou, I.M. Robertson, J.-M. Zuo & Y. Lu, Time-dependent, protein-directed growth of gold nanoparticles within a single crystal of lysozyme, *Nature Nanotechnology*, 6 (2011) 93–97 ISSN: 1748-3387
170. J.M. Kallio, J. Rouvinen, Amphiphilic nanotubes in the crystal structure of a biosurfactant protein hydrophobin HFBII, *Chem. Commun.*, 47 (2011) 9843-9845. ISSN: 1359-7345
- F. Hodjaoglu, Chr. Nanev, Heterogeneous versus Bulk Nucleation of Lysozyme Crystals, *Crystal Research and Technology*, 45 (2010) 281-291. ISSN: 0232-1300
171. I. Santamaria-Holek, A. Gadomski, J.M. Rubi, Controlling protein crystal growth rate by means of temperature, *Journal of Physics Condensed Matter* 23 (2011), art. no. 235101. ISSN 0953-8984
172. C. Ferreira, R. Crespo, P.M. Martins, L. Gales, F. Rocha, A.M. Damas, Small temperature oscillations promote protein crystallization, *CrystEngComm* 13 (2011) 3051-3056. ISSN: 1466-8033
173. G. Tosi, S. Fermani, G. Falini, J.A. Gavira, J.-M. Garcia Ruiz, Hetero- vs homo-geneous nucleation of protein crystals discriminated by supersaturation, *Cryst. Growth Des.*, 11 (2011) 1542–1548. ISSN: 1528-7483
- D.N. Petsev, B.R. Thomas, S.-T. Yau, D. Tsekova, Chr. Nanev, W.W. Wilson, P.G. Vekilov, Temperature-independent solubility and interactions between apoferritin monomers and dimers in solution, *J. Cryst. Growth*, 232 (2001) 21. ISSN: 0022-0248
174. M. Okuda, Y. Suzumoto, I. Yamashita, Bioinspired Synthesis of Homogenous Cerium Oxide Nanoparticles and Two- or Three-Dimensional Nanoparticle Arrays Using Protein Supramolecules, *Crystal Growth and Design* 11 (2011) 2540-2545. ISSN: 1528-7483
- A. Penkova, O. Gliko, I.L. Dimitrov, F.V. Hodjaoglu, C.N. Nanev, P.G. 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
175. H. Koizumi, S. Uda, K. Fujiwara, J. Nozawa, Control of effect on the nucleation rate for hen egg white lysozyme crystals under application of an external ac electric field, *Langmuir* 27 (2011) 8333-8338. ISSN 0743-7463
176. R. Chen, J. Liu, Q. Lu, Y. Liu, D. Yin, Effects of physical environments on nucleation of protein crystals: a review, *Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology* 27 (2011) 9-17. ISSN: 10003061
- Chr. Nanev, L. Mirkova, K. Dicheva, Interferometric investigations of the levelling behaviour of metal ions during the levelling, *Surface and Coatings Technology*, 34 (1988) 483. ISSN: 0257-8972
177. K. Nishikawa, E. Chassaing, M. Rosso, In-situ concentration measurements around the transition between two dendritic growth regimes, *Electrochimica Acta*, 56 (2011) 5464-5471. ISSN: 0013-4686
- C.N. Nanev, A. Penkova, Nucleation and growth of lysozyme crystals under external electric field, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 209 (2002) 139-145. ISSN: 0927-7757
178. J. Tsui, J. Hulliger, Growth of intrinsically polar crystalline textures of phosphangulene by organic molecular beam deposition, *Crystal Growth and Design* 11 (2011) 3328-3331. ISSN: 1528-7483

- C.N. Nanev, Is crystal growth under low supersaturations influenced by a tendency to a minimum of the surface-free energy?, *Annals of the New York Academy of Sciences* 1077 (2006) 194-207. ISSN: 0077-8923
179. G.V. Beketov, Enhanced 2D plotting method for scanning probe microscopy imaging, *Semiconductor Physics, Quantum Electronics & Optoelectronics*, 14 (2011) 80-87. ISSN: 1560-8034
- R. Rashkov, C.N. Nanev, Effect of surface active agents on the initial formation of electrodeposited copper layers, *J. Appl. Electrochem.* 25 (1995) 603-608. ISSN: 0021-891X
180. J.W. Dini, D.D. Snyder, *Modern Electroplating, Fifth Edition* (Eds M. Schlesinger, M. Paunovic), Chapter 2. Electrodeposition of Copper, John Wiley & Sons, Inc., Hoboken, NJ, USA, Published Online: 24 FEB 2011. ISBN: 9780470167786
- L. Mirkova, S. Rashkov, C.N. Nanev, The levelling mechanism during bright acid copper plating, *Surface Technology*, 15 (1985) 181 – 190. ISSN: 0376-4583
181. T. Osaka, M. Yoshino, *Modern Electroplating, Fifth Edition*, (Eds M. Schlesinger, M. Paunovic), 13. *Electrochemical Deposition Process for ULSI Interconnection Devices*, John Wiley & Sons, Inc., Hoboken, NJ, USA, Published Online: 24 FEB 2011. ISBN: 9780470167786
- C. Nanev, D. Iwanov, Alternation of the growth form of zinc single crystals as a result of the diffusion non-homogeneity of the supersaturation, *J. Cryst. Growth* 3 (1968) 530-534. ISSN: 0022-0248
182. W.S. Khan, C. Cao, Z. Usman, S. Hussain, G. Nabi, F.K. Butt, Z. Ali, T. Mahmood, N.A. Niaz, Thermal evaporation and condensation synthesis of metallic Zn layered polyhedral microparticles, *Materials Research Bulletin*, 46 (2011) 2261-2265. ISSN: 0025-5408
- C.N. Nanev, A. Penkova, N. Chayen, Effects of buoyancy-driven convection on nucleation and growth of protein crystals, *Annals of the New York Academy of Sciences* 1027 (2004) 1-9. ISSN: 0077-8923
183. J.V. Parambil, M. Schaeperstoens, D.R. Williams, J.Y.Y. Heng, Effects of Oscillatory Flow on the Nucleation and Crystallization of Insulin, *Cryst. Growth Des.*, 11, (2011) 4353–4359. ISSN: 1528-7483
- Chr. Nanev, A. Dyulgerov, Concentration non-homogeneity during electrocrystallization, *Crystal Research and Technology*. 17 (1982) 19-24. ISSN: 0232-1300
184. B. Rangelov, D. Goranova, V. Tonchev, R. Yakimova, Diffusion Limited Aggregation with modified local rules, submitted in Доклады БАН, arXiv:1105.5558v1, 2011. ISSN 0324-1130.
- Avdeev, G., Amarilla, J.M., Rojo, J.M., Petrov, K., Rojas, R.M., Composition and structure of acid leached $\text{LiMn}_{2-y}\text{Ti}_y\text{O}_4$ ($0.2 \leq y \leq 1.5$) spinels, *Journal of Solid State Chemistry*, 182 (12), (2009), pp. 3226-3231, ISSN: 0022-4596.
185. Álvarez-Serrano, I., Arillo, M.A., López, M.L., Veiga, M.L., Pico, C., Tunable ferrites as environmentally friendly materials for energy-efficient processes, *Advanced Materials*, 23 (44), (2011) pp. 5237-5242. , Print ISSN: 0935-9648, Online ISSN: 1521-4095.
186. Xiong, L., Xu, Y., Zhang, C., Zhang, Z., Li, J. Electrochemical properties of tetravalent Ti-doped spinel LiMn_2O_4 , *Journal of Solid State Electrochemistry*, 15 (6), (2011) pp. 1263-1269., ISSN: 1432-8488 (print version), ISSN: 1433-0768 (electronic version).
- Mancheva, M., Iordanova, R., Dimitriev, Y., Avdeev, G., Synthesis of cubic ZrW_2MoO_8 by a melt quenching method, *Journal of Non-Crystalline Solids*, 355 (37-42), (2009), pp. 1904-1907, ISSN: 0022-3093.
187. Liu, Q., Yang, J., Cheng, X., Sun, X., Zang, C, Abnormal positive thermal expansion in Mo substituted ZrW_2O_8 , *Physica B: Condensed Matter*, 406 (18), (2011), pp. 3458-3464, ISSN: 0921-4526.
188. Liu, Q.-Q., Cheng, X.-N., Yang, J., Sun, X.-J., Influence of fabrication method on the structure and thermal expansion property of ZrW_2MoO_8 and its composites, *Journal of Materials Science*, 46 (5), (2011), pp. 1253-1258, SSN: 0022-2461 (print version), ISSN: 1573-4803 (electronic version).
- Boiadjieva, Tz., Petrov, K., Kronberger, H., Tomandl, A., Avdeev, G., Artner, W., Lavric, T., Monev, M., Composition of electrodeposited Zn-Cr alloy coatings and phase transformations induced by thermal treatment, *Journal of Alloys and Compounds*, 480 (2), (2009), pp. 259-264, ISSN: 0925-8388.
189. Ma, S., Xing, J., Yi, D., Fu, H., Zhang, J., Li, Y., Zhang, Z., Liu, G., Zhu, B., Effects of chromium addition on corrosion resistance of Fe-3.5B alloy in liquid zinc, *Surface and Coatings Technology*, 205 (21-22), (2011), pp. 4902-4909, , ISSN: 0257-8972.

- Amarilla, J.M., Petrov, K., Picó, F., Avdeev, G., Rojo, J.M., Rojas, R.M., Sucrose-aided combustion synthesis of nanosized $\text{LiMn}_{1.99-y}\text{Li}_y\text{M}_0.01\text{O}_4$ ($\text{M} = \text{Al}^{3+}, \text{Ni}^{2+}, \text{Cr}^{3+}, \text{Co}^{3+}$, $y = 0.01$ 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.
190. Aklalouch, M., Amarilla, J.M., Saadoun, I., Rojo, J.M., $\text{LiCr}_0.2\text{Ni}_0.4\text{Mn}_{1.4}\text{O}_4$ spinels exhibiting huge rate capability at 25 and 55 °C: Analysis of the effect of the particle size, *Journal of Power Sources*, 196 (23), (2011) pp. 10222-10227. ISSN: 0378-7753.
191. Álvarez-Serrano, I., Arillo, M.A., López, M.L., Veiga, M.L., Pico, C., Tunable ferrites as environmentally friendly materials for energy-efficient processes, *Advanced Materials*, 23 (44), (2011) pp. 5237-5242, Print ISSN: 0935-9648, Online ISSN: 1521-4095
- 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.
192. Çalayan, B.S., Aksoylu, A.E., Water-gas shift activity of ceria supported Au-Re catalysts, *Catalysis Communications*, 12 (13), (2011) pp. 1206-1211. ISSN: 1566-7367.
193. Lenite, B.A., Galletti, C., Specchia, S., Studies on Au catalysts for water gas shift reaction, *International Journal of Hydrogen Energy*, 36 (13), (2011), pp. 7750-7758. ISSN: 0360-3199.
- 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.
194. Solmaz, R., Kardaş, G., Fabrication and characterization of NiCoZn-M (M: Ag, Pd and Pt) electrocatalysts as cathode materials for electrochemical hydrogen production, *International Journal of Hydrogen Energy*, 36 (19), (2011) pp. 12079-12087, ISSN: 0360-3199.
195. Herraiz-Cardona, I., Ortega, E., Antón, J.G., Pérez-Herranz, V., Assessment of the roughness factor effect and the intrinsic catalytic activity for hydrogen evolution reaction on Ni-based electrodeposits, *International Journal of Hydrogen Energy*, 36 (16), (2011), pp. 9428-9438. ISSN: 0360-3199.
196. Vduva, C.C., Vaszilcsin, N., Kellenberger, A., Medeleanu, M., Catalytic enhancement of hydrogen evolution reaction on copper in the presence of benzylamine, *International Journal of Hydrogen Energy*, 36 (12), (2011) pp. 6994-7001, ISSN: 0360-3199.
197. Zheng, H., Mathe, M., Hydrogen evolution reaction on single crystal WO₃/C nanoparticles supported on carbon in acid and alkaline solution, *International Journal of Hydrogen Energy*, 36 (3), (2011), pp. 1960-1964, 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.
198. Ma, S., Xing, J., Fu, H., Yi, D., Zhang, J., Li, Y., Zhang, Z., Zhu, B., Ma, S., Interfacial morphology and corrosion resistance of Fe-B cast steel containing chromium and nickel in liquid zinc, *Corrosion Science*, 53 (9), (2011), pp. 2826-2834. ISSN: 0010-938X.
- 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.
199. Sakwarathorn, T., Luengnaruemitchai, A., Pongstabodee, S., Preferential CO oxidation in H₂-rich stream over Au/CeO₂ catalysts prepared via modified deposition-precipitation, *Journal of Industrial and Engineering Chemistry*, 17 (4), (2011), pp. 747-754, ISSN: 1226-086X.
200. Lenite, B.A., Galletti, C., Specchia, S., Studies on Au catalysts for water gas shift reaction, *International Journal of Hydrogen Energy*, 36 (13), (2011), pp. 7750-7758, ISSN: 0360-3199.
201. Shen, G., Wang, Q., Wang, Z., Chen, Y., Hydrothermal synthesis of CeO₂ nano-octahedrons, *Materials Letters*, 65 (8), (2011), pp. 1211-1214, Труд 8, ISSN: 0167-577X.
- Mancheva, M.N., Iordanova, R.S., Dimitriev, 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).

202. Chu, X., Huang, R., Yang, H., Wu, Z., Lu, J., Zhou, Y., Li, L., The cryogenic thermal expansion and mechanical properties of plasma modified ZrW₂O₈ reinforced epoxy, *Materials Science and Engineering A*, 528 (9), (2011), pp. 3367-3374, ISSN: 0921-5093.
- Rojas, R.M., Petrov, K., Avdeev, G., Amarilla, J.M., Pascual, L., Rojo, J.M., High-temperature thermal behaviour of Cr-Doped LiMn₂O₄ spinels synthesized by the sucrose-aided combustion method, *Journal of Thermal Analysis and Calorimetry*, 90 (1), (2007), pp. 67-72, ISSN: 1388-6150 (print version), ISSN: 1572-8943 (electronic version).
203. Jayaprakash, N., Kalaiselvi, N., Gangulibabu, Bhuvaneshwari, D., Effect of mono-(Cr) and bication (Cr, V) substitution on LiMn₂O₄ spinel cathodes, *Journal of Solid State Electrochemistry*, 15 (6), (2011), pp. 1243-1251, ISSN: 1432-8488 (print version), ISSN: 1433-0768 (electronic version).
- 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.
204. Deligne, N., Lamme, J., Devillers, M., An easy route to pure and luminescent Eu-doped YVO₄ polycrystalline films based on molecular or hybrid precursors, *European Journal of Inorganic Chemistry*, (23), (2011), pp. 3461-3468, , Print ISSN: 1434-1948, Online ISSN: 1099-0682.
- 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.
205. Chen, Y.-C., Xie, K., Pan, Y., Zheng, C.-M., Wang, H.-L., High power nano-LiMn₂O₄ cathode materials with high-rate pulse discharge capability for lithium-ion batteries, *Chinese Physics B*, 20 (2), (2011), art. no. 028201,. ISSN 1674-1056 (Print).
- Nenow D., Trayanov A., Thermodynamics of crystal surfaces with quasi-liquid layer, *Journal of Crystal Growth* 1-3 (2) (1986) 801-805; ISSN: 00220248
206. Aman, Z.M., Brown, E.P., Sloan, E.D., Sum, A.K., Koh, C.A., Interfacial mechanisms governing cyclopentane clathrate hydrate adhesion/cohesion, *Physical Chemistry Chemical Physics* 13 (44) (2011) 19796-19806, ISSN: 14639076
- Nenow D., Trayanov A., Surface melting of small crystals *Journal of Crystal Growth* 1-4 (1990) 102-105, ISSN: 00220248
207. Pan, D., Liu, L.-M., Slater, B., Michaelides, A., Wang, E., Melting the ice: On the relation between melting temperature and size for nanoscale ice crystals 2011 *ACS Nano* 5 (6), pp. 4562-4569; ISSN: 19360851,
- Pavlovska A., Nenow D. , Experimental study of the surface melting of tetrabrommethane *Journal of Crystal Growth* 2 (1977) 346-352, , ISSN: 00220248
208. Liu, X., Wang, P., Xu, D., Wei, X., Observation of the kinetic roughening of l-arginine trifluoroacetate (LATF) crystals, *Crystal Growth and Design* 11(3) (2011) 791-795; , ISSN: 15287483
- Shoumkova A.S., 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, 2006, 175-180, ISSN 1311-7629.
209. Zyryanov V., Petrov S., Matvienko A., Characterization of spinel and magnetospheres of coal fly ashes collected in power plants in the former USSR, *Fuel*, Vol 90, 2011, 486-492, No 2, ISSN 0016-2361.
- Ilieva D., Jivov B., Kovacheva D., Tsacheva Ts., Dimitriev Y., Bogachev G., Petkov Ch. FT-IR and Raman spectra of Gd phosphate crystals and glasses 2001, *Journal of Non-Crystalline Solids*, (1) 562-568, ISSN: 00223093
210. Gandhi, Y., Rao, M.V.R., Rao, C.S., Kityk, I.V., Veeraiah, N., Role of Al₂O₃ in upconversion and NIR emission in Tm³⁺ and Er³⁺ codoped calcium fluoro phosphorous silicate glass system *Journal of Luminescence* 131 (7), (2011) pp. 1443-1452, ISSN:0022-2313

- Stambolova I., Konstantinov K., Vassilev S., Peshev P., Tsacheva T., Lanthanum doped SnO₂ and ZnO thin films sensitive to ethanol and humidity, 2000, *Materials Chemistry and Physics*, (2) 104-108
ISSN: 02540584
211. Van Hieu, N., Kim, H.-R., Lee, J.-H., The enhanced gas sensing characteristics of La₂O₃-Doped SnO₂ by the addition of multi wall carbon nanotubes *Sensor Letters* 9 (1), (2011) pp. 283-287, ISSN 1546-198X
212. Ang, G.T., Toh, G.H., Bakar, M.Z.A., Abdullah, A.Z., Othman, M.R., High sensitivity and fast response SnO₂ and La-SnO₂ catalytic pellet sensors in detecting volatile organic compounds, *Process Safety and Environmental Protection* 89 (3), (2011) pp. 186-192, ISSN 0957-5820
- I.Iliev, P.Atanasov, S.Gamburzev, A.Kaisheva, V.Tonchev, Transient Response of Electrochemical Biosensors with Assymetrical Sandwich Membranes, *Sensors and Actuators B8*, 1 (1992) 65 - 72.
ISSN: 0925-4005
213. Loghambal S., Rajendran L., Mathematical modeling in amperometric oxidase enzyme–membrane electrodes, *Journal of Membrane Science* 373, 1-2 (2011) 20–28. ISSN: 0376-7388
- 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) 1590. ISSN 1098-0121
214. Bruns D., Gevers S., Wollschläger J., Formation and morphology of step bunches during B-segregation on vicinal Si(111), *Surface Science* 605, (2011) 861–867. ISSN 0039-6028
215. S.S. Kosolobov, A.V. Latyshev, Step Bunching on Silicon Surface Under Electromigration, in: *Nanophenomena at Surfaces: Fundamentals of Exotic Condensed Matter Phenomena*, M.Michailov (ed.), Springer Series in Surface Sciences, 2011, Volume 47, 239-258. ISBN 978-3-642-16509-2
216. Usov V., Coileain C., Shvets I., Experimental quantitative study into the effects of electromigration field moderation on step bunching instability development on Si(111), *Physical Review B* 83, (2011) 155321. ISSN 1098-0121
217. Akutsu N., Non-universal equilibrium crystal shape results from sticky steps *J.Phys.: Condens. Matter* 23, (2011) 485004. ISSN 0953-8984
- S.Stoyanov, J.J. Métois, V.Tonchev, Current Induced Bunches of Steps at (111)Si Surface - a Key to Measuring the Temperature Dependence of the Step Interaction Coefficient, *Surface Science* 465, 3 (2000) 227. ISSN 0039-6028
218. Bruns D., Gevers S., Wollschläger J., Formation and morphology of step bunches during B-segregation on vicinal Si(111), *Surface Science* 605, (2011) 861–867. ISSN 0039-6028
219. Usov V., Coileain C., Shvets I., Experimental quantitative study into the effects of electromigration field moderation on step bunching instability development on Si(111), *Physical Review B* 83, (2011) 155321. ISSN 1098-0121
220. Akutsu N., Non-universal equilibrium crystal shape results from sticky steps, *J.Phys.: Condens. Matter* 23, (2011) 485004. 3 ISSN 0953-8984
- 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
221. S.Stoyanov, Step-Bunching Instabilities of Vicinal Surfaces During Growth and Sublimation of Crystals – the Role of Electromigration of Adatoms in: *Nanophenomena at Surfaces: Fundamentals of Exotic Condensed Matter Phenomena*, M.Michailov (ed.), Springer Series in Surface Sciences, 2011, Volume 47, 259-275. ISBN 978-3-642-16509-2
222. Usov V., Coileain C., Shvets I., Experimental quantitative study into the effects of electromigration field moderation on step bunching instability development on Si(111), *Physical Review B* 83, (2011) 155321. ISSN 1098-0121
223. Benlahsen M., Eldoussouki A., Guedda M., Jazare M., Similarity solutions to evolution equations in one-dimensional interfaces, *Electronic J. of Differential Equations* 2011, 68 (2011) 1–5. ISSN: 1072-6691
224. Akutsu N., Non-universal equilibrium crystal shape results from sticky steps, *J.Phys.: Condens. Matter* 23, (2011) 485004. ISSN 0953-8984
- 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

225. S.S. Kosolobov, A.V. Latyshev, Step Bunching on Silicon Surface Under Electromigration, in: Nanophenomena at Surfaces: Fundamentals of Exotic Condensed Matter Phenomena, M. Michailov (ed.), Springer Series in Surface Sciences, 2011, Volume 47, 239-258. ISBN 978-3-642-16509-2
226. Syvajärvi M., Yakimova R, Sublimation Epitaxial Growth of Hexagonal and Cubic SiC. In: Bhattacharya P, Fornari R, Kamimura H, (eds.), Comprehensive Semiconductor Science and Technology 3, (2011) 202–231. Amsterdam: Elsevier. ISBN: 978-0-444-53153-7
227. Usov V., Coileain C., Shvets I., Experimental quantitative study into the effects of electromigration field moderation on step bunching instability development on Si(111), *Physical Review B* 83, (2011) 155321. ISSN 1098-0121
228. Benlahsen M., Eldoussouki A., Guedda M., Jazare M., Similarity solutions to evolution equations in one-dimensional interfaces, *Electronic J. of Differential Equations* 2011, 68 (2011) 1–5. ISSN: 1072-6691
229. Smith, Michael Edward, Effects of crystal orientation on the dissolution kinetics of calcite by chemical and microscopic analyses, M.Sc. Thesis, Wright State University, 11 August 2011.
230. Akutsu N., Non-universal equilibrium crystal shape results from sticky steps, *J.Phys.: Condens. Matter* 23, (2011) 485004. ISSN 0953-898
- Leung, Y.P., Choy, W.C.H. , Markov, I., Pang, G.K.H., Ong, H.C., Yuk, T.I., Synthesis of wurtzite ZnSe nanorings by thermal evaporation, *Applied Physics Letters* 88(18) (2006) Article number 183110, ISSN: 00036951
231. M.P. Deshpande, S.H. Chaki, N.H. Patel, S.V. Bhatt, B.H. Soni, Study on Nanoparticles of ZnSe Synthesized by Chemical Method and Their Characterization, *J. Nano- Electron. Phys.* 3 (2011) 193-202, ISSN: 2077-6772
232. Li, S., Liu, L., Tian, D., Zhao, H., Synthesis and electrical properties of Na₂Ti₃O₇ nanoribbons, *Micro and Nano Letters* 6 (4) (2011) 233-235, ISSN: 17500443
233. Shanying Li, Yang Jiang, Binbin Wang, Di Wu, Junwei Li, Yugang Zhang, Ben Yang; Xianan Ding; Hongyang Zhou; Honghai Zhong, Synthesis of p-type ZnSe nanowires by atmosphere compensating technique., *IMicro & Nano Letters* 6 (2011) 459-, SSN: 1750-0443
234. R.P. Vijayalakshmi, G. Murali, D. Amaranatha Reddy, R. Venugopal, B.K. Reddy, Synthesis and Photoluminescence Studies on Catalytically Grown Zn_{1-x}MnxS Nanowires, *J. Nano- Electron. Phys.* 3 (2011) 5, ISSN: 2077-6772
235. Yang, B., Zhang, J. , Cui, Y., White light-emitting diode coated with ZnSe:Mn/ZnSe nanocrystal films enveloped by SiO₂, *Applied Optics* 50(31) (2011) G137-G141, ISSN: 00036935
236. Zhang, X., Jie, J., Wang, Z., Wu, C., Wang, L., Peng, Q., Yu, Y., (...), Xie, C., Surface induced negative photoconductivity in p-type ZnSe:Bi nanowires and their nano-optoelectronic applications, *Journal of Materials Chemistry* 21(18) (2011) 6736-6741, ISSN: 09599428
- Prieto, J.E., Markov, I., Quantum-dot nucleation in strained-layer epitaxy: Minimum-energy pathway in the stress-driven two-dimensional to three-dimensional transformation, *Physical Review B - Condensed Matter and Materials Physics* 72(20) (2005) 1-8, ISSN: 10980121
237. Li, H.D., Wang, Z.Y., Guo, X., Wong, T.L., Wang, N., Xie, M.H., Growth of multilayers of Bi₂Se₃/ZnSe: Heteroepitaxial interface formation and strain, *Applied Physics Letters* 98(4) (2011) art. no. 043104, ISSN: 00036951
238. L.H. Wang , X.D. Han , Y.F. Zhang , K. Zheng a P. Liu . Z. Zhang, Asymmetrical quantum dot growth on tensile and compressive-strained, *Acta Materialia* 59 (2011) 651-657, ISSN: 1359-6454
- Markov I., Saturation nucleus density in the electrodeposition of metals onto inert electrodes I. Theory, *Thin Solid Films* 1 (1976) 11-20, ISSN: 00406090
239. Carim, A.I., Gu, J., Maldonado, S., Overlayer surface-enhanced raman spectroscopy for studying the electrodeposition and interfacial chemistry of ultrathin Ge on a nanostructured support, *ACS Nano* 5(3) (2011) 1818-1830, ISSN: 19360851
- Markov I., Kaischew R., Influence of supersaturation on the mode of crystallization on crystalline substrates, *Thin Solid Films* 1 (1976) 163-167, ISSN: 00406090
240. Kakimoto, K., Gao, B., Shiramomo, T., Nakano, S., Nishizawa, S.-I., Thermodynamic analysis of SiC polytype growth by physical vapor transport method, *Journal of Crystal Growth* 324 (1) (2011) 78-81, ISSN: 00220248

- Markov, I.V. *Crystal Growth for Beginners: Fundamentals of Nucleation, Crystal Growth and Exptitaxy*. (1995) World Scientific Publishing Co. Pte. Ltd Singapore, ISBN: 981-238-245-3
241. Ackerman, D.M., Evans, J.W., Boundary conditions for burton-cabrera-frank type step-flow models: Coarse-graining of discrete 2D deposition-diffusion equations, *Multiscale Modeling and Simulation* 9 (1) (2011) 59-88, ISSN: 15403459
242. Algra, R.E., Verheijen, M.A., Feiner, L.-F., Immink, G.G.W., Enkevort, W.J.P.V., Vlieg, E., Bakkers, E.P.A.M., The role of surface energies and chemical potential during nanowire growth, *Nano Letters* 11 (3) (2011) 1259-1264, ISSN: 15306984
243. Anand, V., Ghosh, S., Ghosh, M., Rao, G.M., Railkar, R., Dighe, R.R., Surface modification of PDMS using atmospheric glow discharge polymerization of tetrafluoroethane for immobilization of biomolecules, *Applied Surface Science* 257 (20) (2011) 8378-8384, ISSN: 01694332
244. Bollmann, T.R.J., Van Gastel, R., Zandvliet, H.J.W., Poelsema, B., Anomalous decay of electronically stabilized lead mesas on Ni(111), *Physical Review Letters* 107 (13) (2011) art. no. 136103, ISSN: 00319007
245. Caroff, P., Bolinsson, J., Johansson, J., Crystal phases in III-V nanowires: From random toward engineered polytypism, *IEEE Journal on Selected Topics in Quantum Electronics* 17 (4) (2011) art. no. 5607278 , pp. 829-846, ISSN: 1077260X
246. Chiu, Y.-C., Chen, B.-H., Jan, D.-J., Tang, S.-J., Chiu, K.-C., Growth behavior of CuPc films by physical vapor deposition, *Crystal Research and Technology* 46 (3) (2011) 295-299, ISSN: 02321300
247. Crespillo, M.L., Caballero-Calero, O., Joco, V., Rivera, A., Herrero, P., Olivares, J., Agulló-López, F., Recrystallization of amorphous nanotracks and uniform layers generated by swift-ion-beam irradiation in lithium niobate, *Applied Physics A: Materials Science and Processing* 104 (4) (2011) 1143-1152, ISSN: 09478396
248. Favergeon, L., Pijolat, M., Influence of water vapor pressure on the induction period during Li₂SO₄-H₂O single crystals dehydration, *Thermochimica Acta* 521 (1-2) (2011) 155-160, ISSN: 00406031
249. S. N. Filimonov and Yu. Yu. Hervieu, How the Edge Permeability of a 2D Island Influences the Transition from 2D to 3D Growth *Russian Microelectronics*, 40 (2011) 602-609, , ISSN PRINT: 1063-7397
250. Figge, S., Tessarek, C., Aschenbrenner, T., Hommel, D., Ingan quantum dot growth in the limits of Stranski-Krastanov and spinodal decomposition, *Physica Status Solidi (B) Basic Research* 248 (8) (2011) 1765-1776, ISSN: 03701972
251. L. Fu, S. Mokkalapati, S. Barik, M. Buda, H.H. Tan , C. Jagadish, Disordering of Quantum Structures for Optoelectronic Device Integration, *Comprehensive Semiconductor Science and Technology* 5 (2011) 584-625, ISBN: 978-0-444-53153-7
252. Gamalski, A.D., Ducati, C., Hofmann, S., Cyclic supersaturation and triple phase boundary dynamics in germanium nanowire growth, *Journal of Physical Chemistry C* 115 (11) (2011) 4413-4417, ISSN: 19327447
253. G. Gbabode, Nicolas Dumont, Florence Quist, Guillaume Schweicher, Armin Moser, Pascal Viville, Roberto Lazzaroni, Yves H. Geerts, Substrate-Induced Crystal Plastic Phase of a Discotic Liquid Crystal, *Advanced Materials* DOI: 10.1002/adma.201103739 (2011) , Online ISSN: 1521-4095
254. Gao, J., Yip, J., Zhao, J., Yakobson, B.I., Ding, F., Graphene nucleation on transition metal surface: Structure transformation and role of the metal step edge, *Journal of the American Chemical Society* 133 (13) (2011) 5009-5015, ISSN: 00027863
255. Hu, M., Yamauchi, Y., Synthesis of a titanium-containing Prussian-blue analogue with a well-defined cube structure and its thermal conversion into a nanoporous titanium-iron-based oxide, *Chemistry - An Asian Journal* 6 (9) (2011) 2282-2286, ISSN: 18614728
256. Izdebski, M., Włodarska, M., Comparison of thermodynamic and kinetic models of single-layer crystal-mother-phase interface *Crystal Research and Technology* 46 (12) (2011) 1241-1249, , ISSN: 02321300
257. Jan, D.-J., Wang, S.-S., Tang, S.-J., Lin, K.-Y., Yang, J.-J., Shen, J.-L., Chiu, K.-C., Growth and characterization of tris(8-hydroxyquinoline)-aluminum molecular films, *Thin Solid Films* 520 (3) (2011) 1005-1009, ISSN: 00406090
258. Kazuaki Seki, Alexander, Shigeta Kozawa, Toru Ujihara, Patrick Chaudouët, Didier Chaussende, Yoshikazu Takeda, Formation process of 3C-SiC on 6H-SiC (0001) by low-temperature solution growth in Si-Sc-C system, *J. Crystal Growth*, 335 (2011) 94-99, ISSN: 0022-0248
259. Khokhar, F.S., Van Gastel, R., Schwarz, D., Zandvliet, H.J.W., Poelsema, B., A low energy electron microscopy study of the initial growth, structure, and thermal stability of 4,4'-biphenyldicarboxylic acid domains on Cu(001), *Journal of Chemical Physics* 135 (12)(2011) art. no. 124706, ISSN: 00219606

260. Kim, U., Kim, I., Park, Y., Lee, K.-Y., Yim, S.-Y., Park, J.-G., Ahn, H.-G., (...), Choi, H.-J., Synthesis of Si nanosheets by a chemical vapor deposition process and their blue emissions, *ACS Nano* 5 (3) (2011) 2176-2181, ISSN: 19360851
261. F. S. Khokhar, Raoul van Gastel, Daniel Schwarz, Harold J. W. Zandvliet, Bene Poelsema, A low energy electron microscopy study of the initial growth, structure, and thermal stability of 4,4'-biphenyldicarboxylic acid domains on Cu(001), *J. Chem. Phys.* 135 (2011) 124706, ISSN: 0021-9606
262. Kozłowski, G., Yamamoto, Y., Bauer, J., Schubert, M.A., Dietrich, B., Tillack, B., Schroeder, T., Selective Ge heteroepitaxy on free-standing Si (001) nanopatterns: A combined Raman, transmission electron microscopy, and finite element method study, *Journal of Applied Physics* 110 (5) (2011) art. no. 053509, ISSN: 00218979
263. Kutsukake, K., Abe, T., Usami, N., Fujiwara, K., Morishita, K., Nakajima, K., Formation mechanism of twin boundaries during crystal growth of silicon, *Scripta Materialia* 65 (6) (2011) 556-559, ISSN: 13596462
264. Kuvadia, Z.B., Doherty, M.F., Spiral growth model for faceted crystals of non-centrosymmetric organic molecules grown from solution, *Crystal Growth and Design* 11 (7) (2011) 2780-2802, ISSN: 15287483
265. Lermer, T., Pietzonka, I., Avramescu, A., Brüderl, G., Müller, J., Lutgen, S., Strauss, U., Interdependency of surface morphology and wavelength fluctuations of indium-rich InGaN/GaN quantum wells, *Physica Status Solidi (A) Applications and Materials* 208 (5) (2011) 1199-1202, ISSN: 18626300
266. Li, C.R., Lu, N.P., Xu, Q., Mei, J., Dong, W.J., Fu, J.L., Cao, Z.X., Decahedral and icosahedral twin crystals of silver: Formation and morphology evolution, *Journal of Crystal Growth* 319 (1) (2011) 88-95, ISSN: 00220248
267. Li, C.R., Lu, N.P., Mei, J., Dong, W.J., Zheng, Y.Y., Gao, L., Tsukamoto, K., Cao, Z.X., Polyhedral to nearly spherical morphology transformation of silver microcrystals grown from vapor phase, *Journal of Crystal Growth* 314 (1) (2011) 324-330, ISSN: 00220248
268. Liu, X., Ramu, A.T., Bowers, J.E., Palmstrøm, C.J., Burke, P.G., Lu, H., Gossard, A.C., Properties of molecular beam epitaxially grown ScAs:InGaAs and ErAs:InGaAs nanocomposites for thermoelectric applications, *Journal of Crystal Growth* 316 (1) (2011) 56-59, ISSN: 00220248
269. Lorbek, S., Hlawacek, G., Teichert, C., Determination of critical island size in para-sexiphenyl islands on SiO₂ using capture-zone scaling, *EPJ Applied Physics* 55 (2) , (2011) art. no. 23902-1-23902-6, ISSN: 12860042
270. Lovette, M.A., Doherty, M.F., Reinterpreting edge energies calculated from crystal growth experiments, *Journal of Crystal Growth* 327 (1) (2011) 117-126, ISSN: 00220248
271. Langli Luo, Yihong Kang, Zhenyu Liu, Judith C. Yang, Guangwen Zhou, Dependence of degree of orientation of copper oxide nuclei on oxygen pressure during initial stages of copper oxidation, *Phys. Rev. B* 83 (2011) 155418, ISSN: 00319007
272. Major, J.D., Durose, K., Early stage growth mechanisms of CdTe thin films deposited by close space sublimation for solar cells, *Solar Energy Materials and Solar Cells* 95 (12) (2011) 3165-3170, ISSN: 09270248
273. A. Mallik, B. C. Ray, Evolution of Principle and Practice of Electrodeposited Thin Film: A Review on Effect of Temperature and Sonication, *Int. J. Electrochem.* 2011 (2011) 568023, ISSN 1452-3981
274. S.G. McMurray, B.P. Gorman, D. Diercks, TEM and Atom Probe Investigation of Calcium Carbonate Precipitation in Sea Water, *Microsc. Microanal.* 17 (Suppl 2) (2011) 758-759, ISSN: 1431-9276
275. McPeak, K.M., Le, T.P., Britton, N.G., Nickolov, Z.S., Elabd, Y.A., Baxter, J.B., Chemical bath deposition of ZnO nanowires at near-neutral pH conditions without hexamethylenetetramine (HMTA): Understanding the role of HMTA in ZnO nanowire growth, *Langmuir* 27 (7) (2011) 3672-3677, ISSN: 07437463
276. Meng, F., Morin, S.A., Jin, S., Rational solution growth of α -FeOOH nanowires driven by screw dislocations and their conversion to α -Fe₂O₃ nanowires, *Journal of the American Chemical Society* 133 (22) (2011) 8408-8411, ISSN: 00027863
277. Morin, S.A., Forticaux, A., Bierman, M.J., Jin, S., Screw dislocation-driven growth of two-dimensional nanoplates, *Nano Letters* 11 (10) (2011) 4449-4455, ISSN: 15306984
278. Noguera, C., Fritz, B., Clément, A., *Geochimica et Cosmochimica Acta* 75 (12) (2011) 3402-3418, Simulation of the nucleation and growth of clay minerals coupled with cation exchange, ISSN: 00167037
279. Park, Y.-H., Kim, J., Kim, H., Kim, I., Lee, K.-Y., Seo, D., Choi, H.-J., Kim, W., Thermal conductivity of VLS-grown rough Si nanowires with various surface roughnesses and diameters, *Applied Physics A: Materials Science and Processing* 104 (1) (2011) 7-14, ISSN: 09478396

280. Placidi, E., Zallo, E., Arciprete, F., Fanfoni, M., Patella, F., Balzarotti, A., Comparative study of low temperature growth of InAs and InMnAs quantum dots, *Nanotechnology* 22 (19) (2011) art. no. 195602, ISSN: 09574484
281. Popova, E., Warot-Fonrose, B., Bonell, F., Andrieu, S., Dumont, Y., Berini, B., Fouchet, A., Keller, N., Mechanism of the lattice relaxation in thin epitaxial films of iron oxides: Generalization from the case of ilmenite-hematite solid solution, *Surface Science* 605 (11-12) (2011) 1043-1047, ISSN: 00396028
282. Saunders, R.B., McGlynn, E., Henry, M.O., Theoretical analysis of nucleation and growth of ZnO nanostructures in vapor phase transport growth, *Crystal Growth and Design* 11 (10) (2011) 4581-4587, ISSN: 15287483
283. R. Schulman, E. Winfree, Simple evolution of complex sample species, in *DNA Computing and Molecular Programming*, ed. by Yasubumi Sakakibara, Yongli Mi, Springer, 2011, 147-161, ISBN: 978-3-642-18304-1
284. Schulman, R., Winfree, E., Simple evolution of complex crystal species, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* 6518 LNCS (2011) 147-161, ISSN: 03029743
285. Shu, D.-J., Xiong, X., Wang, Z.-W., Zhang, Z., Wang, M., Ming, N.-B., Atomistic mechanisms and diameter selection during nanorod growth, *Journal of Physical Chemistry C* 115 (1) (2011) 31-36, ISSN: 19327447
286. Skrdla, P.J., Semi-empirical description of the constant β in the equation of state for interfacial tension, *Journal of Colloid and Interface Science* 360 (1) (2011) 313-316, ISSN: 00219797
287. Stankic, S., Cottura, M., Demaille, D., Noguera, C., Jupille, J., Nucleation and growth concepts applied to the formation of a stoichiometric compound in a gas phase: The case of MgO smoke, *Journal of Crystal Growth* 329 (1) (2011) 52-56, ISSN: 00220248
288. Strelcov, E., Davydov, A.V., Lanke, U., Watts, C., Kolmakov, A., In situ monitoring of the growth, intermediate phase transformations and templating of single crystal VO₂ nanowires and nanoplatelets, *ACS Nano* 5 (4) (2011) 3373-3384, ISSN: 19360851
289. Suzuki, Y., Mori, A., Fujiwara, T., Tamura, K., Precise characterization of grain structures, stacking disorders, and lattice disorders of a close-packed colloidal crystal, *Journal of Crystal Growth* 322 (1) (2011) 109-113, ISSN: 00220248
290. R. Vasiliauskas, Maya Marinova, Philip Hens, Peter Wellmann, Mikael Syväjärvi, Rositza Yakimova, Nucleation Control of Cubic Silicon Carbide on 6H- Substrates, *Cryst. Growth Des.*, 12 (1) (2012) 197-204, ISSN: 1528-7483
291. Van Dreumel, G.W.G., Tinnemans, P.T., Van Den Heuvel, A.A.J., Bohnen, T., Buijnsters, J.G., Ter Meulen, J.J., Van Enckevort, W.J.P., (...), Vlieg, E., Realising epitaxial growth of GaN on (001) diamond, *Journal of Applied Physics* 110 (1) (2011) art. no. 013503, ISSN: 00218979
292. Wang, G., Endicott, L., Uher, C., Recent Advances in the Growth of Bi-Sb-Te-Se Thin Films, *Science of Advanced Materials* 3 (4) (2011) 539-560, ISSN: 19472935
293. Wong, Y.-Y., Chang, E.Y., Wu, Y.-H., Hudait, M.K., Yang, T.-H., Chang, J.-R., Ku, J.-T., Chou, W.-C., Chen, C.-Y., Maa, J.-S., Lin, Y.-C., Dislocation reduction in GaN film using Ga-lean GaN buffer layer and migration enhanced epitaxy, *Thin Solid Films* 519 (2011) 6208-6213, ISSN: 00406090
294. Xie, R.-S., Liu, L.-Y., Li, Y.-L., Yang, L., Xiao, D.-Q., Zhu, J.-G., Fe:ZnSe/ZnS core-shell semiconductor nanocrystals: microemulsion synthesis and optical properties, *Gongneng Cailiao/Journal of Functional Materials* 42 (8) (2011) 1415-1417, ISSN: 10019731
295. Xie, R., Li, L., Li, Y., Liu, L., Xiao, D., Zhu, J., Fe:ZnSe semiconductor nanocrystals: Synthesis, surface capping, and optical properties, *Journal of Alloys and Compounds* 509(7) (2011) 3314-3318, ISSN: 09258388
296. Xu, H., Hou, Y., Gao, J., Zhu, H., Zhu, R., Sun, Y., Zhu, X., (...), Yu, D., Regrowth of template ZnO nanowires for the underlying catalyst-free growth mechanism, *Crystal Growth and Design* 11 (6) (2011) 2135-2141, ISSN: 15287483
297. Zacher, D., Schmid, R., Wöll, C., Fischer, R.A., Surface chemistry of metal-organic frameworks at the liquid-solid interface, *Angewandte Chemie - International Edition* 50 (1) (2011) 176-199, ISSN: 14337851
298. Zhang, J., Pearce, M.C., Ting, B.P., Ying, J.Y., Ultrasensitive electrochemical immunosensor employing glucose oxidase catalyzed deposition of gold nanoparticles for signal amplification, *Biosensors and Bioelectronics* 27 (1) (2011) 53-57, ISSN: 09565663
299. Zhu, X., Zhang, T., Marchant, D., Morris, V., The structure and properties of NiAl formed by SHS using induction heating, *Materials Science and Engineering A* 528 (3) (2011) 1251-1260, ISSN: 09215093

300. L. Persichetti, A. Capasso, A. Sgarlata, M. Fanfoni, N. Motta, A. Balzarotti, Towards a controlled growth of self-assembled nanostructures: shaping, ordering and localization in Ge/Si heteroepitaxy, in Stefano Bellucci ed., *Self-Assembly of Nanostructures: The INFN Lectures: Vol. 3*, Springer, (2011), pp. 201-265, ISBN 978-1-4614-0742-3
301. S. Ryu, Wei Cai, Molecular dynamics simulations of gold-catalyzed growth of silicon bulk crystals and nanowires, *J. Mater. Res.* DOI: 10.1557/jmr.2011.155, 2011, ISSN (printed): 0884-2914
- E. Korutcheva, A. M. Turiel, I. Markov, Coherent Stranski-Krastanov growth in 1+1 dimensions with anharmonic interactions: An equilibrium study, *Phys. Rev. B* 61 (2000)16890- , ISSN: 10980121
302. S. N. Filimonov, Yu. Yu. Hervieu, How the Edge Permeability of a 2D Island Influences the Transition from 2D to 3D Growth, *Russian Microelectronics* 40 (2011) 602-609, ISSN: 1063-7397
- I. Markov, A. Trayanov, Epitaxial Interfaces with Realistic Interatomic Forces, *J. Phys. C: Solid State Physics* 21 (1988) 2475-2493, ISSN 0953-8984
303. E. Janssens, Peter Lievens, Growth mechanisms for doped clusters, *Adv. Nat. Sci: Nanosci. Nanotechnol.* 2 (2011) 023001, ISSN 2043-6254
- I. Markov, S. Stoyanov, Mechanisms of Epitaxial Growth, *Contemporary Physics*, 28 (1987) 267-320. ISSN: 0010-7514
304. S. N. Filimonov, Yu. Yu. Hervieu, How the Edge Permeability of a 2D Island Influences the Transition from 2D to 3D Growth, *Russian Microelectronics* 40 (2011) 602-609, ISSN: 1063-7397
305. Gautam, A. R. S.; Howe, J. M., A method to predict the orientation relationship, interface planes and morphology between a crystalline precipitate and matrix. Part I. Approach, *Philosophical Magazine* 91 (2011) 3203-3227, ISSN 1478-6435
- E.P. Trifonova, I.Y. Yanchev, V.B. Stoyanova, S. Mandalidis, K. Kambas, A.N. Anagnostopoulos, Growth and characterization of SnS₂, *Mater. Res. Bulletin* 31 (1996) 919-924., ISSN: 0025-5408
306. Ma, L., Li, H., Chang, K., Li, H., Chen, W.-X, Synthesis of SnS₂ nanosheets and their electrochemical performances used as anode materials of Li-ion battery, *Journal of Zhejiang University (Engineering Science)* 45 (2), 2011, 354-357, ISSN: 1869-1951,
- C.N. Nanev, A. Penkova, Nucleation of lysozyme crystals under external electric and ultrasonic fields, *J. Cryst. Growth*, 232 (2001) 285–293. ISSN: 00220248
307. B.A Garetz, A.S Myerson, S.A Arnold, J.E. Aher, Method for using a static electric field to induce crystallization and to control crystal form, US Patent 7,879,115B2, p. 8, Feb. 1, 2011.
- A. Penkova, O. Gliko, I.L. Dimitrov, F.V. Hodjaoglu, C.N. Nanev, P.G. Vekilov, Enhancement and suppression of protein crystal nucleation due to electrically driven convection, *Journal of Crystal Growth*, 275/1-2 (2005) e1527–e1532. ISSN: 00220248
308. B.A Garetz, A.S Myerson, S.A Arnold, J.E. Aher, Method for using a static electric field to induce crystallization and to control crystal form, US Patent 7,879,115B2, p. 8, Feb. 1, 2011.
309. D.Kashchiev, "Solution of the non-steady state problem in nucleation, kinetics", *Surface Sci.* 14(1969)209. ISSN: 0039-6028
310. C.-C.Ma, Hsieh, F.-H., Wu, Y.-W., Chang, R.-D., Experimental and simulation studies of solid-phase crystallization of fluorine-implanted amorphous silicon on silicon dioxide, *Jap.J.Appl.Phys.* 50(2011)091403. ISSN: 00214922.
311. E.J.Mittemeijer, F.Sommer, Solid state phase transformation kinetics: Evaluation of the modular transformation model , *Int.J.Materials Res.* 102(2011)784-795. ISSN: 18625282.
312. Y.Farjoun, J.C.Neu, Aggregation according to classical kinetics: From nucleation to coarsening, *Phys.Rev. E* 83(2011)051607. ISSN: 15393755.
313. S.J.Song, Liu, F., Jiang, Y.H., Wang, H.F. , Kinetics of solid-state transformation subjected to anisotropic effect: Model and application , *Acta Materialia* 59(2011)3276-3286. ISSN: 13596454.
314. V.I.Tkatch, Rassolov, S.G., Popov, V.V., Maksimov, V.V., Maslov, V.V., Nosenko, V.K., Aronin, A.S., Rybchenko, O.G., Complex crystallization mode oamorphous/nanocrystalline composite Al 86Ni2Co5.8Gd5.7Si0.5 , *J.Non-Cryst.Sol.* 357(2011)1628-1631. ISSN: 00223093.
315. A.Engelbrecht, Meneses, R., Schöpe, H.J., Heterogeneous and homogeneous crystal nucleation in a colloidal model system of charged spheres at low metastabilities , *Soft Matter* 7(2011)5685-5690. ISSN: 1744683X.

316. M.L.F.Nascimento, Fokin, V.M., Zanotto, E.D., Abyzov, A.S., Dynamic processes in a silicate liquid from above melting to below the glass transition *J.Chem.Phys.* 135(2011)194703. ISSN: 00219606.
317. F.Falk, G.Andra, in: "Solar Cells – Thin Film Technologies", Ed. L.A.Kosyachenko, InTech, Rijeka, 2011, p. 137 ISBN 978-953-307-570-9.
- D.Kashchiev, "Nucleation at variable supersaturation", *Surface Sci.* 18(1969)293 ISSN: 0039-6028.
318. B.Peters, Supersaturation rates and schedules: Nucleation kinetics from isothermal metastable zone widths, *J.Cryst.Growth* 317(2011)79-83. ISSN: 00220248.
- S.Stoyanov, D.Kashchiev, M.Georgiev, "Nucleation in solid solutions stimulated by non-equilibrium electrons. I. General theory", *Phys.Stat.Sol.* 41(1970)387. Online ISSN: 1862-6319.
319. M.N.Kozicki, US Patent No. 7929331 B2 (2011).
- S.Stoyanov, D.Kashchiev, M.Georgiev, "Nucleation in solid solutions stimulated by non-equilibrium electrons. II. Electronic model", *Phys.Stat.Sol.* 1(1970)395 Online ISSN: 1862-6319.
320. M.N.Kozicki, US Patent No. 7929331 B2 (2011).
- D.Kashchiev, "Nucleation at time-dependent supersaturation", *Surface Sci.* 22(1970)319 ISSN: 0039-6028.
321. B.Peters, Supersaturation rates and schedules: Nucleation kinetics from isothermal metastable zone widths, *J.Cryst.Growth* 317(2011)79-83. ISSN: 00220248.
- D.Kashchiev, "On the influence of the electric field on nucleation kinetics", *Philos.Mag.* 25(1972)459 ISSN: 1478-6435.
322. C.A.Stan, Tang, S.K.Y., Bishop, K.J.M., Whitesides, G.M., Externally applied electric fields up to 1.6×10^5 V/m do not affect the homogeneous nucleation of ice in supercooled water, *J.Phys.Chem. B* 115(2011)1089-1097. ISSN: 15206106.
- D.Kashchiev, "Nucleation in external electric field", *J.Cryst.Growth* 13/14(1972)128 ISSN: 00220248.
323. M.N.Kozicki, US Patent No. 7929331 B2 (2011).
- D.Kashchiev, "Kinetics of thin film coalescence due to crystallite surface migration", *Surface Sci.* 55(1976)477 ISSN: 0039-6028.
324. J.H.Losl, Bichara, C., Pellenq, R.J.M., Tight binding within the fourth moment approximation: Efficient implementation and application to liquid Ni droplet diffusion on grapheme, *Phys.Rev. B* 84(2011)085455. ISSN: 10980121.
- D.Kashchiev, "Growth kinetics of dislocation-free interfaces and growth mode of thin films", *J.Cryst.Growth* 40(1977)29 ISSN: 00220248.
325. B.V.Petukhov, Mesoscopic variance of dislocation displacements in crystalline materials, *Procedia Eng.* 10(2011)1262-1267. ISSN: 18777058.
- 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-10: 044486928X.
326. A.K.Bhuiyan, Dew, S.K., Stepanova, M., Controlled self-assembly of nanocrystalline arrays studied by 3D kinetic monte carlo modeling *J.Phys.Chem. C* 115(2011)19557- 19568. ISSN: 19327447.
327. A.Belianinov, Ůnal, B., Ho, K.-M., Wang, C.-Z., Evans, J.W., Tringides, M.C., Thiel, P.A., Nucleation and growth of Ag islands on the $(\sqrt{3} \times \sqrt{3})R30^\circ$ phase of Ag on Si(111), *J.Phys.Cond.Matter* 23(2011)265002. ISSN: 09538984.
- D.Kashchiev, "On the relation between nucleation work, nucleus size and nucleation rate", *J.Chem.Phys.* 76(1982)5098 ISSN: 0021-9606.
328. D.Suh, K.Yasuoka, Nanoparticle growth analysis by molecular dynamics: Spherical Seed, *J.Phys.Chem. B* 115(2011)10631-10645. ISSN: 15206106.
329. Q.An, Garrett, G., Samwer, K., Liu, Y., Zybin, S.V., Luo, S.-N., Demetriou, M.D., Goddard III, W.A., Atomistic characterization of stochastic cavitation of a binary metallic liquid under negative pressure, *J.Phys.Chem.Lett.* 2(2011)1320-1323. ISSN: 19487185.

330. D.Brus, Neitola, K., Hyvärinen, A.-P., Petäjä, T., Vanhanen, J., Sipilä, M., Paasonen, P., Lihavainen, H., Homogenous nucleation of sulfuric acid and water at close to atmospherically relevant conditions, *Atmos.Chem.Phys.* 11(2011)5277-5287. ISSN: 16807316.
331. M.E.Erupe, Viggiano, A.A., Lee, S.-H., The effect of trimethylamine on atmospheric nucleation involving H₂SO₄, *Atmos.Chem.Phys.* 11(2011)4767-4775. ISSN: 16807316.
332. P.Vekilov, Nucleation of protein condensed phases, *Rev.Chem.Eng.* 37(2011)1-13. ISSN: 01678299.
333. J.Zhao, Smith, J.N., Eisele, F.L., Chen, M., Kuang, C., McMurry, P.H., Observation of neutral sulfuric acid-amine containing clusters in laboratory and ambient measurements, *Atmos.Chem.Phys.Discuss.* 11(2011)19729, ISSN: 16807367.
334. Q.An, Garrett, G., Samwer, K., Liu, Y., Zybin, S.V., Luo, S.-N., Demetriou, M.D., Atomistic characterization of stochastic cavitation of a binary metallic liquid under negative pressure, *J.Phys.Chem.Lett.* 2(2011)1320-1323. ISSN: 19487185.
335. R.Cabriolu, S.Auer, Amyloid fibrillation kinetics: Insight from atomistic nucleation theory, *J.Mol.Biol.* 411(2011)275-285. ISSN: 00222836.
336. C.N.Nanev, Hodzhaoglu, F.V., Dimitrov, I.L., Kinetics of insulin crystal nucleation, energy barrier, and nucleus size, *Cryst.Growth Des.* 11(2011)196. ISSN: 15287483.
- D.Kashchiev, D.Exerowa, "Bilayer lipid membrane permeation and rupture due to hole formation", *Biochim.Biophys.Acta* 732(1983)133 ISSN 0005-2736.
337. G.Angelini, Chiarini, M., De Maria, P., Fontana, A., Gasbarri, C., Siani, G., Velluto, D., Characterization of cationic liposomes. Influence of the bilayer composition on the kinetics of the liposome breakdown, *Chem.Phys.Lipids* 164(2011)680-687. ISSN: 00093084.
338. T.Shimanouchi, Sasaki, M., Hiroiwa, A., Yoshimoto, N., Miyagawa, K., Umakoshi, H., Kuboi, R., Relationship between the mobility of phosphocholine headgroups of liposomes and the hydrophobicity at the membrane interface: A characterization with spectrophotometric measurements, *Colloids Surfaces B* 88(2011)221-230. ISSN: 09277765.
339. P.De Maria, Fontana, A., Siani, G., D'Aurizio, E., Cerichelli, G., Chiarini, M., Angelini, G., Gasbarri, C., Synthesis and aggregation behaviour of a new sultaine surfactant, *Colloid Surfaces B* 87(2011)73-78. ISSN: 09277765.
- D.Kashchiev, "Nucleation at changing density of monomers", *Cryst.Res.Technol.* 20(1985)723 Online ISSN: 1521-4079.
340. P.P.Petrov, Miller, W., Rehse, U., Fornari, R, A new method for calculation of island-size distribution in submonolayer epitaxial growth, *Appl.Mathemat.Modelling* 35(2011)1331-1336. ISSN: 0307904X.
- I.Gutzow, D.Kashchiev, I.Avramov, "Nucleation and crystallization in glass-forming melts: old problems and new questions", *J.Non-Cryst.Solids* 73(1985)477. ISSN: 0022-3093.
341. F.Gaidies, Pattison, D.R.M., de Capitani, C., Toward a quantitative model of metamorphic nucleation and growth, *Contrib.Mineral.Petrol.* 162(2011)975-993. ISSN: 00107999.
- W.Obretenov, D.Kashchiev, V.Bostanov, "Unified description of the rate of nucleation-mediated crystal growth", *J.Cryst.Growth* 96(1989)843.ISSN: 00220248.
342. W.Miller, Some remarks on the undercooling of the Si(1 1 1) facet and the "monte Carlo modeling of silicon crystal growth" by Kirk M. Beatty & Kenneth A. Jackson, *J. Crystal Growth* 211 (2000) 13, *J.Cryst.Growth* 325(2011)101-103. ISSN: 00220248.
343. M.Beaudhuin, Zaidat, K., Duffar, T., Lemiti, M., One-dimensional model of the equiaxed grain formation in multi-crystalline silicon, *J.Cryst.Growth* 319(2011)106-113. ISSN: 00220248.
- D.Kashchiev, D.Verdoes, G.M. van Rosmalen, "Induction time and metastability limit in new phase formation", *J.Cryst.Growth* 110(1991)373. ISSN: 00220248.
344. M.Zhi, Y. Wang, J.Wang, Determining the primary nucleation and growth mechanism of cloxacillin sodium in methanolbutyl acetate system, *J.Cryst.Growth* 314(2011)213-219. ISSN: 00220248.
345. B.Peters, Supersaturation rates and schedules: Nucleation kinetics from isothermal metastable zone widths, *J.Cryst.Growth* 317(2011)79-83. ISSN: 00220248.
346. R.Persson, Nordholm, S., Perlovich, G., Lindfors, L., Monte carlo studies of drug nucleation 1: Formation of crystalline clusters of bicalutamide in water, *J.Phys.Chem. B* 115(2011)3062. ISSN: 15206106.

347. H.Harzali, Baillon, F., Louisnard, O., Espitalier, F., Mgaidi, A., Experimental study of sono-crystallisation of ZnSO₄•7H₂O, and interpretation by the segregation theory, *Ultrason.Sonochem.* 18(2011)1097-1106. ISSN: 13504177.
348. G.T.Beckham, B.Peters, Optimizing nucleus size metrics for liquid-solid nucleation from transition paths of near-nanosecond duration, *J.Phys.Chem.Lett.* 2(2011)1133-1138. ISSN:19487185.
349. V.Consonni, Trampert, A., Geelhaar, L., Riechert, H., Physical origin of the incubation time of self-induced GaN nanowires, *Appl.Phys.Lett.* 99(2011)033102. ISSN: 00036951.
350. H.Wu, M.A.Khan, Quality-by-design: An integrated process analytical technology approach to determine the nucleation and growth mechanisms during a dynamic pharmaceutical coprecipitation process, *J.Pharmac.Sci.* 100(2011)1969. ISSN: 00223549.
351. C.Lindenberg, M.Mazzotti, Continuous precipitation of L-asparagine monohydrate in a micromixer: Estimation of nucleation and growth kinetics, *AIChE J.* 57(2011)942-950. ISSN: 00011541
- M.C. van der Leeden, D.Verdoes, D.Kashchiev, G.M. van Rosmalen, "Induction time in seeded and unseeded precipitation", in: "Advances in Industrial Crystallization", Eds. J.Garside,R.J.Davey, A.G.Jones, Butterworth, London, 1991, p.31 ISBN-10: 0750611731.
352. M.Zhi, Wang, Y., Wang, J., Determining the primary nucleation and growth mechanism of cloxacillin sodium in methanolbutyl acetate system, *J.Cryst.Growth* 314(2011)213-219. ISSN: 00220248.
- 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: 00220248.
353. M.Zhi, Wang, Y., Wang, J., Determining the primary nucleation and growth mechanism of cloxacillin sodium in methanolbutyl acetate system, *J.Cryst.Growth* 314(2011)213-219. ISSN: 00220248.
354. V.T.H.Pham, Wang Sr., X., Nadeau, J., On the potential of CO₂-water-rock interactions for CO₂ storage using a modified kinetic model, *Int.J.Greenhouse Gas Control* 5(2011)1002-1015. ISSN: 17505836.
355. K.Shiro, H.Izumi, Growth and characterization of borax decahydrate by cooling crystallization, *J.Chem.Eng.Japan* 44(2011)628-635. ISSN: 0021-9592.
- M.C. van der Leeden, D.Kashchiev, G.M. van Rosmalen, "Precipitation of barium sulphate: induction time and the effect of an additive on nucleation and growth", *J.Colloid Interface Sci.* 152(1992)338. ISSN: 0021-9797.
356. H.Wu, M.A.Khan, Quality-by-design: An integrated process analytical technology approach to determine the nucleation and growth mechanisms during a dynamic pharmaceutical coprecipitation process, *J.Pharmac. Sci.* 100(2011)1969-1986. ISSN: 00223549.
- D.Exerowa, D.Kashchiev, D.Platikanov, "Stability and permeability of amphiphile bilayers", *Adv.Colloid Interface Sci.* 40(1992)201 ISSN: 0021-9797.
357. D. Langevin, Marquez-Beltran, C., Delacotte, J., Surface force measurements on freely suspended liquid films, *Adv.Coll.Interf.Sci.* 168(2011)124-134. ISSN: 00018686.
358. Y.Xiong, Yan, Z., Zhang, G.-C., Zheng, M.-X., Wang, K.-J., Effect of nucleation modes on the induced crystallization process for copper contained wastewater treatment, *Huanjing Kexue (Environm.Sci.)* 32(2011)2961-2965. ISSN: 02503301.
- D.Kashchiev, A.Firoozabadi, "Kinetics of the initial stage of isothermal gas phase formation", *J.Chem.Phys.* 98(1993)4690 ISSN 0021-9606.
359. W.Zhao, M.A.Ioannidis, Gas exsolution and flow during supersaturated water injection in porous media: I. Pore network modeling *Adv.Water Resources* 34(2011)2-14. ISSN: 03091708.
360. R.Enouy, Li, M., Ioannidis, M.A., Unger, A.J.A., Gas exsolution and flow during supersaturated water injection in porous media: II. Column experiments and continuum modeling, *Adv.Water Resources* 34(2011)15-25. ISSN: 03091708.
361. B.Peters, Supersaturation rates and schedules: Nucleation kinetics from isothermal metastable zone widths, *J.Cryst.Growth* 317(2011)79-83 ISSN: 00220248.
362. G.T.Beckham, B.Peters, Optimizing nucleus size metrics for liquid-solid nucleation from transition paths of near-nanosecond duration, *J.Phys.Chem.Lett.* 2(2011)1133-1138 ISSN: 19487185.
- 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.

363. A.Arventas, Davitt, K., Caupin, F., Fiber optic probe hydrophone for the study of acoustic cavitation in water, *Rev.Sci.Instrum.* 82(2011)034904. ISSN: 00346748.
364. R.Niy, Smallenburg, F., Fillion, L., Dijkstra, M., Crystal nucleation in binary hard-sphere mixtures: The effect of order parameter on the cluster composition, *Mol.Phys.* 109(2011)1213-1227. ISSN: 00268976.
365. D.S.Corti, Kerr, K.J., Torabi, K., On the interfacial thermodynamics of nanoscale droplets and bubbles, *J.Chem.Phys.* 135(2011)024701. ISSN: 00219606.
366. P.Vekilov, Nucleation of protein condensed phases, *Rev.Chem.Eng.* 37(2011)1-13. ISSN: 01678299.
367. H.K.Abay, T.M.Svartaas, Multicomponent gas hydrate nucleation: The effect of the cooling rate and composition, *Energy Fuels* 25(2011)42-51. ISSN: 08870624.
368. S.Polarz, Shape matters: Anisotropy of the morphology of inorganic colloidal particles – Synthesis and function, *Adv.Funct.Materials* 21(2011)3214-3220. ISSN: 1616301X.
369. H.Korhonen, Sihto, S.-L., Kerminen, V.-M., Lehtinen, K.E.J., Evaluation of the accuracy of analysis tools for atmospheric new particle formation, *Atmos.Chem.Phys.* 11(2011)3051-3066. ISSN: 16807316.
370. C.N.Nanev, Hodzhaoglu, F.V., Dimitrov, I.L., Kinetics of insulin crystal nucleation, energy barrier, and nucleus size, *Cryst.Growth Des.* 11(2011)196. ISSN: 15287483.
- 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 ISSN: 0021-8502.
371. B.J.Murray, Broadley, S.L., Wilson, T.W., Atkinson, J.D., Wills, R.H., Heterogeneous freezing of water droplets containing kaolinite particles, *Atmos.Chem.Phys.* 11(2011)4191-4207. ISSN: 16807316.
372. S.L.Broadley, Murray, B.J., Herbert, R.J., Atkinson, J.D., Dobbie, S., Condliffe, E., Neve, L., Immersion mode heterogeneous ice nucleation by an illite rich powder representative of atmospheric mineral dust, *Atmos.Chem.Phys.Discuss.* 11(2011)22801-22856. ISSN: 16807367.
- 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 ISBN 978-0-7923-3526-9.
373. P.Vekilov, Nucleation of protein condensed phases, *Rev.Chem.Eng.* 37(2011)1-13. ISSN: 01678299.
- 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.
374. W.Zhao, M.A.Ioannidis, Gas exsolution and flow during supersaturated water injection in porous media: I. Pore network modeling, *Adv.Water Resources* 34(2011)2-14. ISSN:03091708.
375. N.Legrand, De Kok, J., Neff, P., Clemens, T., Recovery mechanisms and oil recovery from a tight, fractured basement reservoir, Yemen, *SPE Reserv.Eval.Eng.* 14(2011)493- 504. ISSN: 10946470.
- D.Kashchiev, N.Kaneko, K.Sato, "Kinetics of crystallization in polydisperse emulsions", *J.Colloid Interface Sci.* 208(1998)167 ISSN: 0021-9797.
376. G.C.J.Swamavalli, G.C.J., Joseph, V., Roopsingh, D., Kannappan, V., Studies on nano suspensions of silver sol and redispersed nanocrystallite silver in aqueous and alcoholic media, *J.Molec.Liquids* 164(2011)243-249. ISSN: 01677322.
377. T.El Rhafiki, Kousksou, T., Jamil, A., Jegadheeswaran, S., Pohekar, S.D., Zeraouli, Y., Crystallization of PCMs inside an emulsion: Supercooling phenomenon *Solar Energy Mater. Solar Cells* 95(2011)2588-2597. ISSN: 09270248.
378. J.-T.Wang, Wang, J., Han, J.-J., Fabrication of advanced particles and particle-based materials assisted by droplet-based microfluidics, *Small* 7(2011)1728-1754. ISSN: 16136810.
379. T.Mizoguchi, Kitsunai, M., Hirose, K., Hirasawa, A., Rodgers, S., Chiba, K., Thermal history indicators for cook-chill foods: Effect of particle size on cold-triggering time, *Food Australia* 63(2011)77-81. ISSN: 10325298.
- D.Kashchiev, K.Sato, "Kinetics of crystallization preceded by metastable-phase formation", *J.Chem.Phys.* 109(1998)8530 ISSN 0021-9606.
380. M.Iwamatsu, Free-energy landscape of nucleation with an intermediate metastable phase studied using capillarity approximation, *J.Chem.Phys.* 134(2011)164508. ISSN: 00219606
- D.Kashchiev, "Nucleation: Basic Theory with Applications", Butterworth-Heinemann, Oxford, 2000; 544 pages; ISBN 978-0-7506-4682-6.

381. A.C.Keith, D.Lazzati, Thermal fluctuations and nanoscale effects in the nucleation of carbonaceous dust grains *Month.Notic.Roy.Astronom.Soc.* 410(2011)685-693. ISSN: 00358711.
382. M.A.Kazanskii, Nazarenko, M.V., Dubrovskii, V.G., Blurring of island size distribution function in theory of nucleation *Pisma ,ZETP* 37(2011)78 (*Techn.Phys.Lett.* 37(2011)282- 286). ISSN: 10637850.
383. M.V.Nazarenko, M.V., Sibirev, N.V., Dubrovskii, V.G., Self-consistent model of nanowire growth and crystal structure with regard to the adatom diffusion *Technical Phys.* 56(2011)311-316 (*Zh.Tekhn.Fiz.* 81(2011)153). ISSN: 10637842.
384. M.Roozbehi, Sangpour, P., Khademi, A., Moshfegh, A.Z., The effect of substrate surface roughness on ZnO nanostructures growth, *Appl.Surf.Sci.* 257(2011)3291-3297. ISSN: 01694332.
385. D.Zhou, Zeng, M., Mi, J., Zhong, C. , Theoretical study of phase transition, surface tension, and nucleation rate predictions for argon, *J.Phys.Chem. B* 115(2011)57-63. ISSN: 15206106.
386. B.Peters, Supersaturation rates and schedules: Nucleation kinetics from isothermal metastable zone widths, *J.Cryst.Growth* 317(2011)79-83. ISSN: 00220248.
387. S.Ghosh, S.K.Ghosh, Homogeneous nucleation in vapor-liquid phase transition of Lennard-Jones fluids: A density functional theory approach, *J.Chem.Phys.* 134(2011)024502. ISSN: 00219606.
388. J.H. ter Horst, Bedeaux, D., Kjelstrup, S., The role of temperature in nucleation processes, *J.Chem.Phys.* 134(2011)054703. ISSN: 00219606.
389. A.Raudino, Sarpietro, M., Pannuzzo, M., The thermodynamics of simple biomembrane mimetic systems, *J.Pharm.Bioall.Sci.* 3(2011)15-38. ISSN: 09757406.
390. Z.Kozisek, Sato, K., Ueno, S., Demo, P., Formation of crystal nuclei near critical supersaturation in small volumes, *J.Chem.Phys.* 134(2011)094508. ISSN: 00219606.
391. A.D.Gamalski, A.D., Ducati, C., Hofmann, S., Cyclic supersaturation and triple phase boundary dynamics in germanium nanowire growth, *J.Phys.Chem. C* 115(2011)4413- 4417. ISSN: 15206106.
392. L.Inci, R.K.Bowles, Heterogeneous condensation of the Lennard-Jones vapor onto a nanoscale seed particle, *J.Chem.Phys.* 134(2011)114505. ISSN: 00219606.
393. K.Binder, Block, B., Das, S.K., Virnau, P., Winter, D., Monte Carlo Methods for Estimating Interfacial Free Energies and Line Tensions , *J.Stat.Phys.* 144(2011)690-729. ISSN: 00224715.
394. K.Sangwal, Recent developments in understanding of the metastable zone width of different solute-solvent systems, *J.Cryst.Growth* 318(2011)103-109. ISSN: 00220248.
395. H.Harzali, Baillon, F., Louisnard, O., Espitalier, F., Mgaidi, A., Experimental study of sono-crystallisation of ZnSO₄• 7H₂O, and interpretation by the segregation theory, *Ultrason.Sonochem.*, 18(2011)1097-1106. ISSN: 1350-4177
396. A.Soare, Dijink, R., Pascual, M.R., Sun, C., Cains, P.W., Lohse, D., Stankiewicz, A.I., Kramer, H.J.M., Crystal nucleation by laser-induced cavitation, *Cryst.Growth Design* 11(2011)2311-2316. ISSN: 15287483.
397. S.K.Das, K.Binder, Simulation of binary fluids exposed to selectively adsorbing walls: A method to estimate contact angles and line tensions, *Molec.Phys.* 109(2011)1043. ISSN: 00268976.
398. Y.Diao, Myerson, A.S., Hatton, T.A., Trout, B.L., Surface design for controlled crystallization: The role of surface chemistry and nanoscale pores in heterogeneous nucleation, *Langmuir* 27(2011)5324. ISSN: 07437463.
399. B.C.Knott, Doherty, M.F., Peters, B., A simulation test of the optical Kerr mechanism for laser-induced nucleation, *J.Chem.Phys.* 134(2011)154501. ISSN: 00219606.
400. J.F.Lutsko, Density functional theory of inhomogeneous liquids. IV. Squared-gradient approximation and classical nucleation theory ,*J.Chem.Phys.* 134(2011)164501. ISSN: 00219606.
401. J.F.Lutsko, Communication: A dynamical theory of homogeneous nucleation for colloids and macromolecules, *J.Chem.Phys.*, 135(2011)161101. ISSN: 00219606.
402. A.Vitalis, R.V.Pappu, Assessing the contribution of heterogeneous distributions of oligomers to aggregation mechanisms of polyglutamine peptides *Biophys.Chem.* 159(2011)14-23. ISSN: 03014622
403. K.Ostrikov, H.Mehdipour, Rapid, simultaneous activation of thin nanowire growth in low-temperature, low-pressure chemically active plasmas, *J.Materials Chem.* 21(2011)8183-8191. ISSN: 09599428.
404. B.C.Knott, Larue, J.L., Wodtke, A.M., Doherty, M.F., Peters, B. , Communication: Bubbles, crystals, and laser-induced nucleation *J.Chem.Phys.* 134(2011)171102. ISSN: 00219606.
405. H.Kiani, D.-W.Sun, Water crystallization and its importance to freezing of foods: A review, *Trends Food Sci.Technol.* 22(2011)407-426. ISSN: 09242244.
406. T.Tsuruoka, Terabe, K., Hasegawa, T., Aono, M., Temperature effects on the switching kinetics of a Cu-Ta₂O₅-based atomic switch, *Nanotechnol.* 22(2011)254013. ISSN: 09574484.
407. K.Sangwal, Progressive nucleation mechanism and its application to the growth of

- journals, articles and authors in scientific fields , *J.Informetrics* 5(2011)529-536. ISSN: 17511577.
408. K.Sangwal, On the growth of citations of publication output of individual authors *J.Informetrics* 5(2011)554. ISSN: 17511577.
 409. K.Kohary, C.D.Wright, Electric field induced crystallization in phase-change materials for memory applications, *Appl.Phys.Lett.* 98(2011)223102. ISSN: 00036951.
 410. A.M.Brener, Nonlocal model of aggregation in dispersed systems, *Theor.Found.Chem.Eng.* 45(2011)332-336. ISSN: 00405795.
 411. I.Saika-Voivod, Romano, F., Sciortino, F., Nucleation barriers in tetrahedral liquids spanning glassy and crystallizing regimes, *J.Chem.Phys.* 135(2011)124506. ISSN: 00219606.
 412. E.Gunter, Huang, L., Mehling, H., Dötsch, C., Subcooling in PCM emulsions – Part 2: Interpretation in terms of nucleation theory ,*Thermochim.Acta* 522(2011)199-204. ISSN: 00406031.
 413. X.Quan, Chen, G., Cheng, P. , A thermodynamic analysis for heterogeneous boiling nucleation on a superheated wall ,*Intern.J.Heat Mass Transfer* 54(2011)4762-4769. ISSN: 00179310.
 414. H.Mehdipour, Ostrikov, K., Rider, A.E., Furman, S.A., Minimizing the Gibbs-Thomson effect in the low-temperature plasma synthesis of thin Si nanowires , *Nanotechnol.* 22(2011)315707. ISSN 0957-4484.
 415. R.Grossier, Hammadi, Z., Morin, R., Veesler, S. , Predictive nucleation of crystals in small volumes and its consequences ,*Phys.Rev.Lett.* 107(2011)025504. ISSN: 00319007.
 416. A.Ziabicki, B.Misztal-Faraj, Modeling of phase transitions in three-phase polymorphic systems: Part I. Basic equations and example simulation, *J.Mater.Res.* 26(2011)1585. ISSN: 08842914.
 417. P.Yi, G.C.Rutledge, Molecular simulation of bundle-like crystal nucleation from n-eicosane melts, *J.Chem.Phys.* 135(2011)024903. ISSN: 00219606.
 418. H.Ohnogi, Y.Shiwa, Nucleation, growth, and coarsening of crystalline domains in order-order transitions between lamellar and hexagonal phases, *Phys.Rev. E* 84(2011)011611. ISSN: 15393755.
 419. B.Peters, On the coupling between slow diffusion transport and barrier crossing in nucleation *J.Chem.Phys.* 135(2011)044107. ISSN: 00219606.
 420. C.Bocker, Avramov, I., Rüssel, C., The effect of stresses during crystallization on the crystallite size distributions, *J.Europ.Cer.Soc.* 31(2011)2861-2866. ISSN: 09552219.
 421. D.Suh, K.Yasuoka, Nanoparticle growth analysis by molecular dynamics: Spherical Seed *J.Phys.Chem. B* 115(2011)10631-10645. ISSN: 15206106.
 422. V.G.Baidakov, Bobrov, K.S., Teterin, A.S., Cavitation and crystallization in a metastable Lennard-Jones liquid at negative pressures and low temperatures, *J.Chem.Phys.* 135(2011)054512. ISSN: 00219606.
 423. N.V.Sibirev, Nazarenko, M.V., Dubrovskii, V.G., Numerical analysis of the effect of fluctuations on the growth of nuclei during first-order phase transitions, *Techn.Phys.Lett.* 37(2011)596. ISSN: 10637850.
 424. V.Ssemaganda, Holstein, K., Warnecke, G., Uniqueness of steady-state solutions for thermodynamically consistent Becker-Döring models ,*J.Math.Phys.* 52(2011)083304. ISSN: 00222488.
 425. C.Booth-Morrison, Dunand, D.C., Seidman, D.N. , Coarsening resistance at 400 °c of precipitation-strengthened Al-Zr-Sc-Er alloys ,*Acta Materialia* 59(2011)7029-7042. ISSN: 13596454.
 426. P.Vekilov Nucleation of protein condensed phases, *Rev.Chem.Eng.* 37(2011)1. ISSN: 01678299.
 427. M.S.Bazarjani, Kleebe, H.-J., Müller, M.M., Fasel, C., Baghaie Yazdi, M., Gurlo, A., Riedel, R., Nanoporous silicon oxycarbonitride ceramics derived from polysilazanes in situ modified with nickel nanoparticles, *Chem.Mater.* 23(2011)4112-4123. ISSN: 08974756.
 428. D.Barahona, On the ice nucleation spectrum *Atmos.Chem.Phys.Discuss.* 11(2011)29601-29646. ISSN: 16807367.
 429. E.Gagniere et al., in: “Pharmaceutical Salts and Cocrystals”, Eds. J.Wouters et al., *Roy.Soc.Chem.*, Cambridge, 2011, p.188. ISBN-10: 1849731586.
 430. H.K.Abay, T.M.Svartaas, Multicomponent gas hydrate nucleation: The effect of the cooling rate and composition, *Energy Fuels* 25(2011)42-51. ISSN: 08870624.
 431. S.Auer,Phase diagram of polypeptide chains, *J.Chem.Phys.* 135(2011)175103. ISSN: 00219606.
 432. Y.Mikhlin, Karacharov, A., Likhatski, M., Podlipskaya, T., Zubavichus, Y., Veligzhanin, A., Zaikovski, V., Submicrometer intermediates in the citrate synthesis of gold nanoparticles: New insights into the nucleation and crystal growth mechanisms, *J.Coll.Interf.Sci.* 362(2011)330-336. ISSN: 00219797.
 433. S.Angioletti-Uberti, The solidliquid interface free-energy of Pb: Comparison of theory

- and experiments, *J.Phys.Cond.Matt.* 23(2011)435008. ISSN: 09538984.
434. V.Ssemaganda, Holstein, K., Warnecke, G., Uniqueness of steady-state solutions for thermodynamically consistent Becker-Döring models, *J.Math.Phys.* 52(2011)083304. ISSN: 00222488.
435. M.A.Lovette, M.F.Doherty, Reinterpreting edge energies calculated from crystal growth experiments, *J.Cryst.Growth* 327(2011)117-126. ISSN: 00220248.
436. H.Chen, Z.Hou, Optimal modularity for nucleation in a network-organized Ising model, *Phys.Rev. E* 83(2011)046124. ISSN: 15393755.
437. H.Chen, Shen, C., Hou, Z., Xin, H., Nucleation in scale-free networks, *Phys.Rev. E* 83(2011)031110. ISSN: 15393755.
438. V.G.Dubrovskii, Kazansky, M.A., Nazarenko, M.V., Adzhemyan, L.T., Numerical analysis of Ostwald ripening in two-dimensional systems, *J.Chem.Phys.* 134(2011)094507. ISSN: 00219606.
439. N.I.Poletaev, Zolotko, A.N., Doroshenko, Y.A., Degree of dispersion of metal combustion products in a laminar dust flame, *Combust.Explos.Shock Waves* 47(2011)153-165. ISSN: 00105082.
440. P.M.Valov, Leiman, V.I., Maksimov, V.M., Derkacheva, O.Y., Nucleation kinetics in a CuCl solid solution in glass: Calculation and comparison with experiment, *Phys.Sol.State* 53(2011)476-481. ISSN: 10637834.
441. T.Yamauchi, Tsukahara, Y., Yamada, K., Sakata, T., Wada, Y., Nucleation and growth of magnetic Ni₂Co (Core/Shell) nanoparticles in a one-pot reaction under microwave irradiation, *Chem.Mater.* 23(2011)75-84. ISSN: 08974756.
442. Z.M.Aman, Brown, E.P., Sloan, E.D., Sum, A.K., Koh, C.A., Interfacial mechanisms governing cyclopentane clathrate hydrate adhesion/cohesion, *Phys.Chem.Chem.Phys.* 13(2011)19796-19806. ISSN: 14639076.
443. O.Petrov, I.Furo, A study of freezing-melting hysteresis of water in different porous materials. Part II: Surfactant-templated silicas, *Phys.Chem.Chem.Phys.* 13(2011)16358-16365. ISSN: 14639076.
444. S.Jiang, J.H. ter Horst, Crystal nucleation rates from probability distributions of induction times, *Cryst.Growth Des.* 11(2011)256-261. ISSN: 15287483.
445. K.Ittai, Vladimir, L., Oded, N., Bubble growth in visco-elastic magma: Implications to magma fragmentation and bubble nucleation, *Bull.Volcanol.* 73(2011)39-45. ISSN: 02588900
446. R.Cabriolu, S.Auer, Amyloid fibrillation kinetics: Insight from atomistic nucleation theory, *J.Mol.Biol.* 411(2011)275-285. ISSN: 00222836.
447. D.W.Fallest, Nozawa, T., Nomoto, K., Umeda, H., Maeda, K., Kozasa, T., Lazzati, D., On the effects of microphysical grain properties on the yields of carbonaceous dust from Type II supernovae, *Month.Notic.Roy.Astronom.Soc.* 418(2011)571-582. ISSN: 00358711.
448. R.Deak, Néda, Z., Barna, P.B., A kinetic Monte Carlo approach for self-diffusion of Pt Atom Clusters on a Pt(111) Surface, *Commun.Comput.Phys.* 10(2011)920-939. ISSN: 18152406.
449. Q.-K.Zeng, Guan, X.-J., Pan, Z.-B., Zhang, H.-J., Wang, L.-J., Yu, B.-J., Liu, Q.-Q., Simulation of microdefect with different oxygen concentration in ϕ 400 mm CZ silicon crystal growth, *Rengong Jingti Xuebao (J.Synthet.Cryst.)* 40(2011)1150-1156. ISSN: 1000985X.
450. D.Zahn, J.Anwar, Size-dependent phase stability of a molecular nanocrystal: A proxy for investigating the early stages of crystallization, *Chem.Europ.J.* 17(2011)11186-1192. ISSN: 09476539
451. R.-Q.Song, H.Colfen, Additive controlled crystallization, *Cryst.Eng.Comm.* 13(2011)1249-1276. ISSN: 14668033.
452. N.P.Herring, Abouzeid, K., Mohamed, M.B., Pinsk, J., El-Shall, M.S., Formation mechanisms of gold-zinc oxide hexagonal nanopyramids by heterogeneous nucleation using microwave synthesis, *Langmuir* 27(2011)15146. ISSN: 07437463.
453. S.Talatori, T.Barth, Rate of hydrate formation in crude oil/gas/water emulsions with different water cuts, *J.Petrol.Sci.Eng.* 80(2011)32-40. ISSN: 09204105.
454. D.Gebauer, H.Holfen, Prenucleation clusters and non-classical nucleation, *Nano Today* 6(2011)564-584. ISSN: 17480132.

- D.Kashchiev, A.Firoozabadi, "Driving force for crystallization of gas hydrates", *J.Cryst.Growth* 241(2002)220. ISSN: 00220248.
455. A.Falenty, Genov, G., Hansen, T.C., Kuhs, W.F., Salamatin, A.N., Kinetics of CO₂ hydrate formation from water frost at low temperatures: Experimental results and theoretical model, *J.Phys.Chem. C* 115(2011)4022-4032. ISSN: 19327447.
456. D.Corak, Barth, T., Høiland, S., Skodvin, T., Larsen, R., Skjetne, T., Effect of subcooling and amount of hydrate former on formation of cyclopentane hydrates in brine, *Desalination* 278(2011)268-274. ISSN: 00119164.
457. D.L.Zhong, Yang, C., Liu, D.P., Wu, Z.M., Experimental investigation of methane hydrate formation on suspended water droplets, *J.Cryst.Growth* 327(2011)237-244. ISSN: 00220248.
458. M.R.Walsh, Beckham, G.T., Koh, C.A., Sloan, E.D., Wu, D.T., Sum, A.K., Methane hydrate nucleation rates from molecular dynamics simulations: Effects of aqueous methane concentration, interfacial curvature, and system size, *J.Phys.Chem. C*, 115(2011)21241-21248. ISSN: 19327447
459. H.K.Abay, T.M.Svartaas, Multicomponent gas hydrate nucleation: The effect of the cooling rate and composition, *Energy Fuels* 25(2011)42-51. ISSN: 08870624.
460. J.-F.Tang, Zeng, D.-L., Wang, C.-L., Application of quasi-equilibrium theory in CH₄+CO₂ separation model based on hydrate formation, *J.China Univ. of Petroleum* 35(2011)109-113. ISSN: 16735005
- D.Kashchiev, A.Firoozabadi, "Nucleation of gas hydrates", *J.Cryst.Growth* 243(2002)476. ISSN: 00220248
461. J.Yang, B.Tohidi, Characterization of inhibition mechanisms of kinetic hydrate inhibitors using ultrasonic test technique *Chem.Eng.Sci.* 66(2011)278-283. ISSN: 00092509.
462. A.Falenty, Genov, G., Hansen, T.C., Kuhs, W.F., Salamatin, A.N., Kinetics of CO₂ hydrate formation from water frost at low temperatures: Experimental results and theoretical model, *J.Phys.Chem. C* 115(2011)4022-4032. ISSN: 19327447.
463. L.C.Jacobson, V.Molinero, Can amorphous nuclei grow crystalline clathrates? the size and crystallinity of critical clathrate nuclei, *J.Am.Chem.Soc.* 133(2011)6458-6463. ISSN: 00027863
464. M.Naseer, W.Brandstatter, in: "Computational Methods in Multiphase Flow VI", Eds. A.A.Mammoli, C.A.Brebba, WIT Press, Ashurst, 2011, p. 270. ISBN-10: 0521847648.
465. D.L.Zhong, Yang, C., Liu, D.P., Wu, Z.M., Experimental investigation of methane hydrate formation on suspended water droplets, *J.Cryst.Growth* 327(2011)237-244. ISSN: 00220248.
466. C.Giavarini, K.Hester, "Gas Hydrates", Springer, Berlin, 2011. ISBN: 9780857299550.
467. M.R.Walsh, Beckham, G.T., Koh, C.A., Sloan, E.D., Wu, D.T., Sum, A.K., Methane hydrate nucleation rates from molecular dynamics simulations: Effects of aqueous methane concentration, interfacial curvature, and system size, *J.Phys.Chem. C* 115(2011)21241-21248. ISSN: 19327447.
468. H.K.Abay, T.M.Svartaas, Multicomponent gas hydrate nucleation: The effect of the cooling rate and composition, *Energy Fuels* 25(2011)42-51. ISSN: 08870624.
469. T.S.Yun, J.C.Santamarina, Hydrate growth in granular materials: Implication to hydrate bearing sediments, *Geosci.J.* 15(2011)265-273. ISSN: 12264806.
470. B.Zhang, Cheng, Y., Wu, Q., Sponge effect on coal mine methane separation based on clathrate hydrate method, *Chin.J.Chem.Eng.* 19(2011)610. ISSN: 10049541.
471. Z.M.Aman, Brown, E.P., Sloan, E.D., Sum, A.K., Koh, C.A., Interfacial mechanisms governing cyclopentane clathrate hydrate adhesion/cohesion, *Phys.Chem.Chem.Phys.* 13(2011)19796-19806. ISSN: 14639076.
- D.Kashchiev, A.Firoozabadi, "Induction time in crystallization of gas hydrates", *J.Cryst.Growth* 250(2003)499 ISSN: 00220248.
472. J.Yang, B.Tohidi, Characterization of inhibition mechanisms of kinetic hydrate inhibitors using ultrasonic test technique *Chem.Eng.Sci.* 66(2011)278-283. ISSN: 00092509.
473. A.Falenty, Genov, G., Hansen, T.C., Kuhs, W.F., Salamatin, A.N., Kinetics of CO₂ hydrate formation from water frost at low temperatures: Experimental results and theoretical model, *J.Phys.Chem. C* 115(2011)4022-4032. ISSN: 19327447.
474. D.L.Zhong, Yang, C., Liu, D.P., Wu, Z.M., Experimental investigation of methane hydrate formation on suspended water droplets, *J.Cryst.Growth* 327(2011)237-244.

ISSN: 00220248.

475. M.R.Walsh, Beckham, G.T., Koh, C.A., Sloan, E.D., Wu, D.T., Sum, A.K., Methane hydrate nucleation rates from molecular dynamics simulations: Effects of aqueous methane concentration, interfacial curvature, and system size, *J.Phys.Chem. C* 115(2011)21241-21248. ISSN: 19327447.
476. H.K.Abay, T.M.Svartaas, Multicomponent gas hydrate nucleation: The effect of the cooling rate and composition, *Energy Fuels* 25(2011)42-51. ISSN: 08870624.
- D.Kashchiev, "Thermodynamically consistent description of the work to form a nucleus of any size", *J.Chem.Phys.* 118(2003)1837 ISSN 0021-9606.
477. D.Zhou, , Zeng, M., Mi, J., Zhong, C., Theoretical study of phase transition, surface tension, and nucleation rate predictions for argon ,*J.Phys.Chem. B* 115(2011)57-63. ISSN: 15206106.
- 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.
478. D.Suh, K.Yasuoka, Nanoparticle growth analysis by molecular dynamics: Spherical Seed *J.Phys.Chem. B* 115(2011)10631-10645. ISSN: 15206106.
- D.Kashchiev, G.M. van Rosmalen, "Review: nucleation in solutions revisited", *Cryst.Res.Technol.* 38(2003)555. Print-ISSN 0232-1300.
479. S.Jiang, J.H. ter Horst, Crystal nucleation rates from probability distributions of induction times, *Cryst.Growth Design* 11(2011)256-261. ISSN: 15287483.
480. Z.Kozisek Sato, K., Ueno, S., Demo, P., Formation of crystal nuclei near critical supersaturation in small volumes , *J.Chem.Phys.* 134(2011)094508. ISSN: 00219606.
481. S.S.Kadam, Kramer, H.J.M., Ter Horst, J.H., Combination of a single primary nucleation event and secondary nucleation in crystallization processes, *Cryst.Growth Des.* 11(2011)1271-1277. ISSN: 15287483.
482. A.Lewis, M.Mangere, Reactive crystallization of copper selenide at very high supersaturation: A challenge to classical crystallization theory for sparingly soluble salts *Chem.Eng.Technol.* 34(2011)517-524. ISSN: 09307516.
483. K.Yasui, Tuziuti, T., Kato, K., Tuziuti, T., Kato, K., Numerical simulations of sonochemical production of BaTiO₃ nanoparticles *Ultrason.Sonochem.*, 18(2011)1211-2117. ISSN: 13504177.
484. H.Harzali, Baillon, F., Louisnard, O., Espitalier, F., Mgaidi, A., Experimental study of sono-crystallisation of ZnSO₄· 7H₂O, and interpretation by the segregation theory *Ultrason.Sonochem.* 18(2011)1097-1106. ISSN: 13504177
485. E.M.Gartner, D.E.Macphee, A physico-chemical basis for novel cementitious binders *Cement Concrete Res.* 41(2011)736-749. ISSN: 00088846.
486. H.Kiani, D.-W.Sun, Water crystallization and its importance to freezing of foods: A review, *Trends Food Sci.Technol.* 22(2011)407. ISSN: 09242244.
487. B.Peters, On the coupling between slow diffusion transport and barrier crossing in nucleation, *J.Chem.Phys.* 135(2011)044107. ISSN: 00219606.
488. J.W.Bullard, Lothenbach, B., Stutzman, P.E., Snyder, K.A., Coupling thermodynamics and digital image models to simulate hydration and microstructure development of portland cement pastes, *J.Mater.Res.* 26(2011)609-622. ISSN: 08842914.
489. S.G.Kwon, T.Hyeon, Formation mechanisms of uniform nanocrystals via hot-injection and heat-up methods, *Small* 7(2011)2685-2702. ISSN: 16136810.
490. J.McLeod, Paterson, A.H.J., Jones, J.R., Bronlund, J., Primary nucleation of alpha-lactose monohydrate: The effect of supersaturation and temperature, *Intern.Dairy J.* 21(2011)455-461. ISSN: 09586946.
491. A.Soare, Dijink, R., Pascual, M.R., Sun, C., Cains, P.W., Lohse, D., Stankiewicz, A.I., Kramer, H.J.M., Crystal nucleation by laser-induced cavitation, *Cryst.Growth Des.* 11(2011)2311-2316. ISSN: 15287483.
492. C.Lindenberg, M.Mazzotti, Continuous precipitation of L-asparagine monohydrate in a micromixer: Estimation of nucleation and growth kinetics, *AIChE J.* 57(2011)942-950. ISSN: 00011541
493. Y.-L.Fang, Miller, J.T., Guo, N., Heck, K.N., Alvarez, P.J.J., Wong, M.S. , Structural analysis of palladium-decorated gold nanoparticles as colloidal bimetallic catalysts,

- D.Kashchiev, A.Firrozabadi, "Analytical solutions for 1D countercurrent imbibition in water-wet media", SPE J. 8(2003)401. ISSN: 1086-055X.
494. M.F.El-Amin, S.Sun, Effects of gravity and inlet/outlet location on a two-phase cocurrent imbibition in porous media, J.Appl.Math. (2011)673523. ISSN: 1110757X.
495. A.Mirzaei-Paiaman, Masihi, M., Standnes, D.C. , An Analytic Solution for the Frontal Flow Period in 1D Counter-Current Spontaneous Imbibition into Fractured Porous Media Including Gravity and Wettability Effects ,Transp.Porous Media 89(2011)49. ISSN: 01693913.
496. A.Mirzaei-Paiaman, Masihi, M., Standnes, D.C., Study on non-equilibrium effects during spontaneous imbibition. Energy Fuels, 25(2011)3053-3059. ISSN: 08870624.
497. K.S.Schmid, Geiger, S., Sorbie, K.S., Semianalytical solutions for cocurrent and countercurrent imbibition and dispersion of solutes in immiscible two-phase flow. Water Resourc.Res. 47(2011)W02550. ISSN: 00431397.
498. D.W.Ruth, J.K.Arthur, A Revised Analytic Solution to the Linear Displacement Problem Including Capillary Pressure Effects, Transport Porous Media 86(2011)881-894. ISSN: 01693913.
499. S.Evje, A.Hiorth, A model for interpretation of brine-dependent spontaneous imbibition experiments, Adv.Water Resources 34(2011)16271642. ISSN: 03091708.
- D.Kashchiev, "Multicomponent nucleation: thermodynamically consistent description of the nucleation work", J.Chem.Phys. 120(2004)3749 ISSN 0021-9606.
500. Z.Kozisek, Sato, K., Ueno, S., Demo, P. , Formation of crystal nuclei near critical supersaturation in small volumes, J.Chem.Phys. 134(2011)094508. ISSN: 00219606.
- D.Kashchiev, P.G.Vekilov, A.B.Kolomeisky, "Kinetics of two-step nucleation of crystals", J.Chem.Phys. 122(2005)244706 ISSN 0021-9606.
501. C.E.Nicholson, Chen, C., Mendis, B., Cooper, S.J. Stable polymorphs crystallized directly under thermodynamic control in three-dimensional nanoconfinement: A generic methodology, Cryst.Growth Design 11(2011)363-366. ISSN: 15287483.
502. M.Iwamatsu, Free-energy landscape of nucleation with an intermediate metastable phase studied using capillarity approximation J.Chem.Phys. 134(2011)164508. ISSN: 00219606.
503. Y.Mikhlin, Karacharov, A., Likhatski, M., Podlipskaya, T., Zubavichus, Y., Veligzhanin, A., Zaikovski, V., Submicrometer intermediates in the citrate synthesis of gold nanoparticles: New insights into the nucleation and crystal growth mechanisms, J.Coll.Interf.Sci. 362(2011)330-336. ISSN: 00219797.
504. G.Liu, Yu, J.C., Lu, G.Q., Cheng, H.-M., Crystal facet engineering of semiconductor photocatalysts: Motivations, advances and unique properties, Chem.Commun. 47(2011)676367-83. ISSN: 13597345.
- D.Kashchiev, "Dependence of the growth rate of nanowires on the nanowire diameter", Cryst. Growth Design 6(2006)1154 ISSN (printed): 1528-7483.
505. X.Ren, Huang, H., Dubrovskii, V.G., Sibirev, N.V., Nazarenko, M.V., Bolshakov, A.D., Ye, X.Liu, X., Experimental and theoretical investigations on the phase purity of GaAs zincblende nanowires, Semicond.Sci.Technol. 26(2011)014034. ISSN: 02681242.
506. M.Suzuki, Hidaka, Y., Yanagida, T., Klamchuen, A., Kanai, M., Kawai, T., Kai, S., Essential role of catalyst in vapor-liquid-solid growth of compounds, Phys.Rev. E 83(2011)061606. ISSN: 15393755.
507. V.G.Dubrovskii, Cirilin, G.E., Sibirev, N.V., Jabeen, F., Harmand, J.C., Werner, P. New mode of vapor-liquid-solid nanowire growth, Nano Lett. 11(2011)1247-1253. ISSN: 15306984.
- D.Kashchiev, "Forms and applications of the nucleation theorem", J.Chem.Phys. 125(2006)014502 ISSN 0021-9606.
508. B.Peters, On the coupling between slow diffusion transport and barrier crossing in nucleation , J.Chem.Phys. 135(2011)044107. ISSN: 00219606.

- 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.
509. A.P.Grinin, Gor, G.Y., Kuni, F.M. , On the theory of aerosol particle growth: Non-steady transport problems, *Atmos.Res.* 101(2011)503-509. ISSN: 01698095.
510. D.Suh, K.Yasuoka, Nanoparticle growth analysis by molecular dynamics: Spherical Seed *J.Phys.Chem. B* 115(2011)10631-10645. ISSN: 15206106.
511. E.Zapadinsky, Evaporation rate of nucleating clusters *J.Chem.Phys.* 135(2011)194504. ISSN: 00219606.
512. W.Christen, Krause, T., Kobin, B., Rademann, K. , Precision velocity measurements of pulsed supersonic jets , *J.Phys.Chem. A* 115(2011)6997-7004. ISSN: 10895639.
513. A.Sab, Vogl, U., Weitz, M., Laser cooling of a potassium-argon gas mixture using collisional redistribution of radiation, *Appl.Phys. B* 102(2011)503-507. SSN: 09462171.
514. D.Zhou, , Zeng, M., Mi, J., Zhong, C., Theoretical study of phase transition, surface tension, and nucleation rate predictions for argon , *J.Phys.Chem. B* 115(2011)57-63. ISSN: 15206106.
- 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: 15206106.
515. P.P.Petrov, Miller, W., Rehse, U., Fornari, R., A new method for calculation of island- size distribution in submonolayer epitaxial growth, *Appl.Mathemat.Modelling* 35(2011)1331-1336. ISSN: 0307904X.
- D.Kashchiev, "Toward a better description of the nucleation rate of crystals and crystalline monolayers", *J.Chem.Phys.* 129(2008)164701 ISSN 0021-9606.
516. J.E.Prieto, I.Markov, Second-layer nucleation in coherent Stranski-Krastanov growth of quantum dots, *Phys.Rev. B* 84(2011)195417. ISSN: 10980121.
517. R.Cabriolu, S.Auer, Amyloid fibrillation kinetics: Insight from atomistic nucleation theory, *J.Mol.Biol.* 411(2011)275-285. ISSN: 00222836.
- 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 ISSN: 00220248.
518. K.Sangwal, Some features of metastable zone width of various systems determined by polythermal method, *Cryst.Eng.Comm.* 13(2011)489-501. ISSN: 14668033.
519. B.Peters, Supersaturation rates and schedules: Nucleation kinetics from isothermal metastable zone widths, *J.Cryst.Growth* 317(2011)79-83. ISSN: 00220248.
520. M.Kobari, Kubota, N., Hirasawa, I., Computer simulation of metastable zone width for unseeded potassium sulfate aqueous solution, *J.Cryst.Growth* 317(2011)64-69. ISSN: 00220248.
521. K.Sangwal, Recent developments in understanding of the metastable zone width of different solute-solvent systems, *J.Cryst.Growth* 318(2011)103-109. ISSN: 00220248.
522. H.K.Abay, T.M.Svartaas, Multicomponent gas hydrate nucleation: The effect of the cooling rate and composition, *Energy Fuels* 25(2011)42-51. ISSN: 08870624.
- 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 1520-6106 (print).
523. M.Kobari, Kubota, N., Hirasawa, I., Computer simulation of metastable zone width for unseeded potassium sulfate aqueous solution *J.Cryst.Growth* 317(2011)64-69. ISSN: 00220248.
524. K.Sangwal, Recent developments in understanding of the metastable zone width of different solute-solvent systems , *J.Cryst.Growth* 318(2011)103-109. ISSN: 00220248.
- S.Auer, D.Kashchiev, "Phase Diagram of α -Helical and β -Sheet Forming Peptides", *Phys.Rev.Lett.* 104(2010)168105 ISSN: 0031-9007.
525. C.Wu, J.-E.Shea, Coarse-grained models for protein aggregation , *Curr.Opin.Struct.Biol.* 21(2011)209-220. ISSN: 0959440X.
526. V.A.Wagoner, Cheon, M., Chang, I., Hall, C.K., Computer simulation study of amyloid fibril formation by palindromic sequences in prion peptides, *Proteins* 79(2011)2132-2145. ISSN: 08873585.

527. Morriss-Andrews, A., Bellesia, G., Shea, J.-E., Effects of surface interactions on peptide aggregate morphology, *J.Chem.Phys.* 135(2011)085102. ISSN 0021-9606.
528. M.Cheon, Chang, I., Hall, C.K., Spontaneous formation of twisted A β 16-22 Fibrils in Large-Scale Molecular-Dynamics Simulations, *Biophys.J.* 101(11)2493. ISSN: 0006349.5
529. B.Linse, S.Linse, Monte Carlo simulations of protein amyloid formation reveal origin of sigmoidal aggregation kinetics, *Molec.Biosystems* 7(2011)2296-2306. ISSN: 1742206X.
- D.Kashchiev, S.Auer, "Nucleation of Amyloid Fibrils", *J.Chem.Phys.* 132(2010)215101 ISSN 0021-9606.
530. C.Wu, J.-E.Shea, Coarse-grained models for protein aggregation, *Curr.Opin.Struct.Biol.* 21(2011)209-220. ISSN: 0959440X.
531. V.A.Wagoner, Cheon, M., Chang, I., Hall, C.K., Computer simulation study of amyloid fibril formation by palindromic sequences in prion peptides, *Proteins* 79(2011)2132- 2145. ISSN: 08873585.
532. C.C.Cenker, Bucak, S., Olsson, U., Nanotubes and bilayers in a model peptide system, *Soft Matter* 7(2011)4868-4875. ISSN: 1744683X.
533. S.I.A.Cohen Vendruscolo, M., Welland, M.E., Dobson, C.M., Terentjev, E.M., Knowles, T.P.J., Nucleated polymerization with secondary pathways. I. Time evolution of the principal moments, *J.Chem.Phys.* 135(2011)065105. ISSN: 00219606.
534. J.D.Schmit, Ghosh, K., Dill, K., What drives amyloid molecules to assemble into oligomers and fibrils?, *Biophys.J.* 100(2011)450-458. ISSN: 00063495.
- 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: 08873585.
535. M.Garvey, Tepper, K., Haupt, C., Knüpfer, U., Klement, K., Meinhardt, J., Horn, U., Fändrich, M., Phosphate and HEPES buffers potently affect the fibrillation and oligomerization mechanism of Alzheimer's A β peptide *Biochem.Biophys.Res.Comm.* 409(2011)385-388. ISSN: 0006291X.
536. M.Baiesi, Seno, F., Trovato, A., Fibril elongation mechanisms of HET-s prion-forming domain: Topological evidence for growth polarity, *Proteins* 79(2011)3067-3081. ISSN: 08873585.
537. S.I.A.Cohen, Vendruscolo, M., Dobson, C.M., Knowles, T.P.J., Nucleated polymerisation in the presence of pre-formed seed filaments, *Int.J.Mol.Sci.* 12(2011)5844-5852. ISSN: 14220067.
538. F.Mito, Yamasaki, T., Ito, Y., Yamato, M., Mino, H., Sadasue, H., Shirahama, C., Yamada, K.-I., Monitoring the aggregation processes of amyloid- β using a spin-labeled, fluorescent nitroxyl radical, *Chem.Commun.* 47(2011)5070. ISSN: 13597345.
- D.Exerowa, N.Churaev, T.Kolarov, N.Esipova, N.Panchev, Z.M.Zorin, Foam and Wetting Films: Electrostatic and Steric Stabilization, *Adv. Colloid Interface Sci.*, 104, 1-24 (2003) ISSN: 0001-8686
539. Wojciechowski K, Bitner A, Warszynski P, et al The Hofmeister effect in zeta potentials of CTAB-stabilised toluene-in-water emulsions, *Colloids And Surfaces A*, 376 (1-3): 122-126, 2011 ISSN: 0927-7757
540. Alexandrova L, Rao KH, Forsberg KSE, et al., The influence of mixed cationic-anionic surfactants on the three-phase contact parameters in silica-solution systems *Colloids&Surfaces A*, 373: 145-151, 2011 ISSN: 0927-7757
541. Schelero N, von Klitzing R., Correlation between specific ion adsorption at the air/water interface and long-range interactions in colloidal systems, *Soft Matter*, 7 (6): 2936-2942, 2011 ISSN: 1744-6848
542. Del Castillo LA, Ohnishi S, Horn RG, Inhibition of bubble coalescence: Effects of salt concentration and speed of approach *J.Colloid&Interface Sci.*, 356: 316-324, 2011 ISSN: 0021-9797
543. Mishchuk Nataliya A. The model of hydrophobic attraction in the framework of classical DLVO forces, *Adv. Colloid Interface Sci.*, 168: 149-166, 2011 ISSN: 0001-8686
544. Kosior Dominik, Zawala Jan, Malysa Kazimierz: When and how alpha-terpineol and n-octanol can inhibit the bubble attachment to hydrophobic surfaces, *Physicochemical Problems of Mineral Processing*, 47: 169-182, 2011 ISSN 1643-1049
545. Chakrabarti Amartya; Lu Jun; McNamara Adam M.; et al. Tin(IV) sulfide: Novel nanocrystalline morphologies, *Inorganica Chimica Acta*, 374 (1): 627-931, 2011 ISSN: 0020-1693

- Panchev, N; Khristov, K; Czarnecki, J, D. Exerowa, S. Bhattacharjee, J. Masliyah, A New Method for Water-in-Oil Emulsion Film Studies, *Colloids&Surfaces A*, 315, 74-78 (2008) ISSN: 0927-7757
546. Wang BA, Wu T, Li YJ, et al., The effects of oil displacement agents on the stability of water produced from ASP (alkaline/surfactant/polymer) flooding, , *Colloids & Surfaces A*, 379 (1-3):121-126, 2011 ISSN: 0927-7757
- V. Alahverdijeva, K. 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 & Surfaces A*, 323, 132-138 (2008) ISSN: 0927-7757
547. Kristen-Hochrein Nora; Schelero Natascha; von Klitzing Regine, Effects of oppositely charged surfactants on the stability of foam films, *Colloids&Surfaces A*, 382 (1-3): 165-173, 2011 ISSN: 0927-7757
548. Wojciechowski Kamil; Piotrowski Marek; Popielarz Wojciech; et al., Short- and mid-term adsorption behaviour of Quillaja Bark Saponin and its mixtures with lysozyme, *Food Hydrocolloids*, 25 (4): 687-693, 2011 ISSN: 0268-005X
- R. Cohen, D. Exerowa, Surface forces and properties of foam films from rhamnolipid biosurfactants, *Adv. Colloid Interface Sci.*, 134-135, 24-34 (2007) ISSN: 0001-8686
549. Zhu Pengfei, Li Ying, Li Quanwei, et al., Mesoscopic Simulation of the Interfacial Behavior of Biosurfactant Rhamnolipids and the Synergistic Systems, *Acta Chimica Sinica*, 69 (20): 2420-2433, 2011 ISSN: 0567-7351
550. Khoshdast, H., Sam, A., Vali, H., Noghabi, K.A. Effect of rhamnolipid biosurfactants on performance of coal and mineral flotation, *International Biodeterioration and Biodegradation* 65 (8): 1238-1243, 2011 ISSN: 0964-8305
551. Gharaei-Fathabad, E., Biosurfactants in pharmaceutical industry: A mini-review, *American Journal of Drug Discovery and Development*, 1 (1): 58-69, 2011 ISSN: 2150-4296
- D. Exerowa, A. Scheludko, Porous Plate Method for Studying Microscopic Foam and Emulsion Films, *Compt. Rend. Acad. Bulg. Sci.*, 24, 47-50 (1971) ISSN-0366-8681
552. N. Kristen-Hochrein, N. Schelero, R.von Klitzing, Effects of oppositely charged surfactants on the stability of foam films, *Colloids&Surfaces A*, 382: 165-173, 2011 ISSN: 0927-7757
553. Schelero N, von Klitzing R, Correlation between specific ion adsorption at the air/water interface and long-range interactions in colloidal systems, *Soft Matter*, 7 (6): 2936, 2011 ISSN: 1744-6848
554. Restolho, J., Mata, J.L., Shimizu, K., Canongia Lopes, J.N., Saramago, B., Wetting films of two ionic liquids: [C8mim][BF4] and [C 2OHmim][BF4], *Journal of Physical Chemistry C*, 115 (32): 16116-16123, 2011 ISSN: 1932-7447
- Scheludko, A., Exerowa, D., Instrument for interferometric measuring of the thickness of microscopic foam films *Compt. Rend. Acad Bulg Sci*, 7, (1959) 123-132 ISSN-0366-8681
555. D.S. Ivanova, Z.K. Angarska, S.I. Karakashev, E.D. Manev, Drainage of foam films stabilized by n-dodecyl- β -d-maltoside or dodecyl trimethylammonium bromide and their mixtures, *Colloids & Surfaces A*, 382: 93-101, 2011 ISSN: 0927-7757
556. Danov, K.D., Basheva, E.S., Kralchevsky, P.A., Ananthapadmanabhan, K.P., Lips, A., The metastable states of foam films containing electrically charged micelles or particles: Experiment and quantitative interpretation, *Advances in Colloid and Interface Science* 168 (1-2) 14: 50-70, 2011 ISSN: 0001-8686
- M.Nedyalkov, R.Krustev, D.Kashchiev, D. Platikanov, D.Exerowa, Permeability of Newtonian black foam films to gas, *Colloid&Polym. Sci.*, 266, 291 (1988) ISSN: 0303-402X
557. Farajzadeh, R., Muruganathan, R.M., Rossen, W.R., Krastev, R., Effect of gas type on foam film permeability and its implications for foam flow in porous media, *Advances in Colloid and Interface Science*, 168 (1-2), 14: 71-78, 2011 ISSN: 0001-8686
- D.Exerowa, P.M.Kruglyakov, "Foam and Foam Films", *Studies in Interface Science*, Elsevier, Amsterdam, D. Möbius, R. Miller (Eds.) (1998)
558. Z.K. Angarska, A.A. Elenskiyi, G.P. Yampolskaya, K.D. Tachev, Foam films from mixed solutions of bovine serum albumin and n-dodecyl- β -d-maltoside, *Colloids & Surfaces A*, 382:102, 2011 ISSN: 0927-7757
559. Muruganathan RM, Muller HJ, Mohwald H, Krastev R, *ACS Appl. Materials&Interfaces*, Letter, 633, 2011 ISSN: 1944-8244

560. N. Kristen-Hochrein, N. Schelero, R.von Klitzing, Effects of oppositely charged surfactants on the stability of foam films, *Colloids&Surfaces A*, 382:165-173, 2011 ISSN: 0927-7757
561. Iyota, H., Ikeda, N., Krastev, R., Thermodynamic studies on thin liquid films IV. Foam film stabilized by sodium dodecyl sulphate, *J. Coll&Int.Sci.* 364 (1) 1: 170-177, 2011 ISSN: 0021-9797
562. Van't Zand, D.D., Schofield, A.B., Thijssen, J.H.J., Clegg, P.S., Hindered coarsening of a phase-separating microemulsion due to dispersed colloidal particles, *Langmuir* 27, 22, 15:13436-13443, 2011 ISSN: 0743-7463
563. Farajzadeh, R., Muruganathan, R.M., Rossen, W.R., Krastev, R., Effect of gas type on foam film permeability and its implications for foam flow in porous media, *Advances in Colloid and Interface Science*, 168 (1-2), 14: 71-78, 2011 ISSN: 0001-8686
564. Lam, S., Blanco, E., Smoukov, S.K., Velikov, K.P., Veleev, O.D., Magnetically responsive pickering foams, *Journal of the American Chemical Society*, 133 (35): 13856-13859, 2011 ISSN: 0002-7863
565. Fameau, A.-L., Saint-Jalmes, A., Cousin, F., Houinsou Houssou, B., Novales, B., Navailles, L., Nallet, F., Gaillard, C., Boué, F., Douliez, J.-P., Smart foams: Switching reversibly between ultrastable and unstable foams, *Angewandte Chemie - International Edition* 50 (36): 8264-8269, 2011 ISSN: 1521-3773
566. Jordanova, A., Tenchov, B., Lalchev, Z., Effects of the interaction and surface morphology of mixed DPoPE/Pluronic 188 monolayers and thin liquid films, *Soft Matter*, 7 (15): 7003-7012, 2011 ISSN: 1744-6848
567. Karakashev, S.I., Grozev, N., Díez, I., Ras, R.H.A., Tsekov, R., Rheology of silver nanocluster solutions under confinement, *Colloids and Surfaces A* 384 (1-3), 5: 570-573, 2011 ISSN: 0927-7757
568. Yang, W., Yang, X., Molecular dynamics study of the foam stability of a mixed surfactant/water system with and without calcium ions, *Journal of Physical Chemistry B*, 115 (16): 4645-4653, 2011 ISSN: 1520-6106
569. Du, D., Li, Y., Sun, S., Pseudo-plastic behaviour of a film foam flow with carbon dioxide as the internal gas phase, *Advanced Materials Research*, 221: 15-20, 2011 ISSN: 1022-6680
570. Du, D., Li, Y., Sun, S., Experimental study on pseudo-plastic behavior for film foam flow in a vertical tube, *Advanced Materials Research*, 221: 194-199, 2011 ISSN: 1022-6680
571. Zawala, J., Malysa, K., Influence of the impact velocity and size of the film formed on bubble coalescence time at water surface, *Langmuir* 27 (6): 2250-2257, 2011 ISSN: 0743-7463
572. Karakashev, S.I., Tsekov, R., Electro-marangoni effect in thin liquid films, *Langmuir*, 27 (6), 15: 2265-2270, 2011 ISSN: 0743-7463
573. Binks, B.P., Rocher, A., Kirkland, M., Oil foams stabilised solely by particles, *Soft Matter*, 7 (5): 1800-1808, 2011 ISSN: 1744-6848
574. Chen, X., Freeman, S.A., Rochelle, G.T., Foaming of aqueous piperazine and monoethanolamine for CO₂ capture, *International Journal of Greenhouse Gas Control*, 5 (2): 381-386, 2011 ISSN: 1750-5836
575. Song, X.-W., Zhang, L., Wang, X.-C., Zhang, L., Zhao, S., Yu, J.-Y., Study on foaming properties of polyoxyethylene alkyl ether carboxylic salts with different structures, *Journal of Dispersion Science and Technology* 32 (2): 247-253, 2011 ISSN 0193-2691
576. Zhou, Z.H., Zhang, L., Xu, Z.C., Zhang, L., Zhao, S., Yu, J.Y., Surface dilational properties and foam properties of novel benzene sulfonate surfactants, *Journal of Dispersion Science and Technology*, 32 (1): 95-101, 2011 ISSN 0193-2691
577. Karakashev, S.I., Ivanova, D.S., Manev, E.D., Kirilova, R., Tsekov, R., An experimental test of the fractal model for drainage of foam films, *Journal of Colloid and Interface Science*, 353 (1): 206-209, 2011 ISSN: 0021-9797

R. Sedev, Z. Nemeth, R. Ivanova, D.Exerowa, Surface force measurement in foam films from mixtures of protein and polymeric surfactants, *Colloids & Surfaces A*, 149, 141 (1999) ISSN: 0927-7757

578. Z.K. Angarska, A.A. Elenskyi, G.P. Yampolskaya, K.D. Tachev, Foam films from mixed solutions of bovine serum albumin and n-dodecyl- β -D-maltoside, *Colloids & Surfaces A*, 382: 102, 2011 ISSN: 0927-7757

Z. Lalchev, D. Exerowa, K. Koumanov, *Ann. Univ. Sofia*, 73, 163 (1979)

579. Z.K. Angarska, A.A. Elenskyi, G.P. Yampolskaya, K.D. Tachev, Foam films from mixed solutions of bovine serum albumin and n-dodecyl- β -D-maltoside, *Colloids & Surfaces A*, 382: 102, 2011 ISSN: 0927-7757

Exerowa D., Effect of Adsorption, Ionic Strength and pH on the Potential of the Diffuse Electric Layer, *Kolloid-Zeitschrift*, 232, 703 (1969) ISSN: 0368-6590

580. Del Castillo LA, Ohnishi S, Horn RG, Inhibition of bubble coalescence: Effects of salt concentration and speed of approach *J. Colloid & Interface Sci.*, 356: 316-324, 2011 ISSN: 0021-9797
- E. Manev, A. Scheludko, D. Exerowa, Effect of Surfactant Concentration on the Critical Thickness of Liquid Films, *Colloid & Polymer Sci.*, 252, 586-593 (1974) ISSN: 0303-402X
581. H. Do, M. Brady, D. P. Telionis, P. Vlachos, R.-H. Yoon, Numerical modeling and experiments of coarsening foam *Intl. J. Min. Process.*, 98: 66-73, 2011 ISSN: 0301-7516
582. Del Castillo LA, Ohnishi S, Horn RG, Inhibition of bubble coalescence: Effects of salt concentration and speed of approach, *J. Colloid & Interface Sci.*, 356: 316-324, 2011 ISSN: 0021-9797
- D. Exerowa, T. Kolarov, Khr. Khristov, Direct measurement of disjoining pressure in black foam films. I. Films from an ionic surfactant *Colloids & Surfaces A*, 22 (2), 171-185 (1987) ISSN: 0927-7757
583. D. S. Ivanova, Z. K. Angarska, S. I. Karakashev, E. D. Manev, Drainage of foam films stabilized by n-dodecyl- β -D-maltoside or dodecyl trimethylammonium bromide and their mixtures, *Colloids & Surfaces A*, 382: 93-101, 2011 ISSN: 0927-7757
- D. Exerowa, M. Zacharieva, R. Cohen, D. Platikanov, Dependence of the equilibrium thickness and double layer potential of foam films on the surfactant concentration, *Colloid & Polym. Sci.*, 257, 1089-1098 (1979) ISSN: 0303-402X
584. D. S. Ivanova, Z. K. Angarska, S. I. Karakashev, E. D. Manev, Drainage of foam films stabilized by n-dodecyl- β -D-maltoside or dodecyl trimethylammonium bromide and their mixtures, *Colloids & Surfaces A*, 382: 93-101, 2011 ISSN: 0927-7757
585. Iyota, H., Ikeda, N., Krastev, R., Thermodynamic studies on thin liquid films IV. Foam film stabilized by sodium dodecyl sulfate, *Journal of Colloid and Interface Science* 364 (1), pp. 170-177, 2011 ISSN: 0021-9797
586. Angarska, Z. K., Elenskyi, A. A., Yampolskaya, G. P., Tachev, K. D., Foam films from mixed solutions of bovine serum albumin and n-dodecyl- β -D-maltoside, *Colloids and Surfaces A* 382 (1-3), pp. 102-112, 2011 ISSN: 0927-7757
- Nedyalkov, M., Krustev, R., Kashchiev, D., Platikanov, D. Exerowa, D. Permeability of Newtonian black foam films to gas, *Colloid & Polymer Science*, 266 (3), 291-296 (1988) ISSN: 0303-402X
587. Tcholakova, S., Mitrinova, Z., Golemanov, K., Denkov, N. D., Vethamuthu, M., Ananthapadmanabhan, K. P., Control of ostwald ripening by using surfactants with high surface modulus, *Langmuir* 27, 24, 20: 14807-14819, 2011 ISSN: 0743-7463
588. Nakabayashi, T., Takakusagi, Y., Iwabata, K., Sakaguchi, K., Foam fractionation of protein: Correlation of protein adsorption onto bubbles with a pH-induced conformational transition, *Analytical Biochemistry* 419 (2), 15: 173-179, 2011 ISSN: 0003-2697
- Lalchev, Z., Dimitrova, L., Tzvetkova, P., Exerowa, D., Foam separation of DNA and proteins from solution, *Biotechnol Bioeng*, 24, 2253-2262 (1982) ISSN: 1097-0290
589. Gehring, T., Fischer, T. M. Diffusion of nanoparticles at an air/water interface is not invariant under a reversal of the particle charge, *J. Phys. Chem. C* 115 (48), 8: 23677-23681, 2011 ISSN: 1932-7447
- Exerowa, D., Effect of adsorption, ionic strength and pH on the potential of the diffuse electric layer, *Kolloid-Zeitschrift & Zeitschrift für Polymere*, 232 (1), 703-710 (1969) ISSN: 0368-6590
590. Gehring, T., Fischer, T. M. Diffusion of nanoparticles at an air/water interface is not invariant under a reversal of the particle charge, *J. Phys. Chem. C* 115 (48), 8: 23677-23681, 2011 ISSN: 1932-7447
- Scheludko, A., Exerowa, D. Über den elektrostatischen Druck in Schaumfilmen aus wässrigen Elektrolytlösungen *Kolloid-Zeitschrift*, 165 (2), 148-151 (1959) ISSN: 0368-6590
591. Iyota, H., Ikeda, N., Krastev, R., Thermodynamic studies on thin liquid films IV. Foam film stabilized by sodium dodecyl sulphate, *J. Coll & Int. Sci* 364 (1), 1: 170-177, 2011 ISSN: 0021-9797
592. Gurkov, T. D., Angarska, J. K., Tachev, K. D., Gaschler, W., Statistics of rupture in relation to the stability of thin liquid films with different size, *Colloids and Surfaces A*: 382 (1-3): 174-180, 2011 ISSN: 0927-7757
- Kolarov, T., Yankov, R., Esipova, N. E., Exerowa, D., Zorin, Z. M. Charge reversal at the air/water interface as inferred from the thickness of foam films, *Colloid & Polymer Science*, 271 (5), 519-520 (1993) ISSN: 0303-402X

593. Iyota, H., Ikeda, N., Krastev, R., Thermodynamic studies on thin liquid films IV. Foam film stabilized by sodium dodecyl sulphate, *J.Coll&Int.Sci* 364 (1), 1:170-177, 2011 ISSN: 0021-9797
- Kolarov, T., Scheludko, A., Exerowa, D. Contact angle between black film and bulk liquid, *Trans. of the Faraday Society*, 64, 2864-2873 (1968) ISSN: 0014-7672
594. Iyota, H., Ikeda, N., Krastev, R., Thermodynamic studies on thin liquid films IV. Foam film stabilized by sodium dodecyl sulphate, *J.Coll&Int.Sci* 364 (1), 1:170-177, 2011 ISSN: 0021-9797
- Scheludko, A., Radoev, B., Kolarov, T. Tension of liquid films and contact angles between film and bulk liquid, *Transactions of the Faraday Society*, 64, 2213-2220 (1968) ISSN: 0014-7672
595. Iyota, H., Ikeda, N., Krastev, R., Thermodynamic studies on thin liquid films IV. Foam film stabilized by sodium dodecyl sulphate, *J.Coll&Int.Sci* 364 (1), 1:170-177, 2011 ISSN: 0021-9797
- Exerowa, D., Kolarov, T., Khristov, Khr. Direct measurement of disjoining pressure in black foam films I. Films from an ionic surfactant, *Colloids and surfaces*, 22 (2-4), 171-185 (1987) ISSN: 0927-7757
596. Iyota, H., Ikeda, N., Krastev, R., Thermodynamic studies on thin liquid films IV. Foam film stabilized by sodium dodecyl sulphate, *J.Coll&Int.Sci* 364 (1), 1:170-177, 2011 ISSN: 0021-9797
597. Harbottle, D., Bueno, P., Isaksson, R., Kretzschmar, I., Coalescence of particle-laden drops with a planar oil-water interface, *Journal of Colloid and Interface Science* 362 (1): 235-241, 2011 ISSN: 0021-9797
- Exerowa, D., Sedev, R., Ivanova, R., Kolarov, T., Tadros, T. Transition from electrostatic to steric stabilization in foam films from ABA triblock copolymers of poly(ethylene oxide) and poly(propylene oxide) *Colloid Surface A*, 123-124, 277-282 (1997) ISSN: 0927-7757
598. Xu, J., Hou, Z., Tang, X., Cheng, J., Li, T., SEM-EDS technique employed in evaluating the aggregation behaviors of amphiphilic ABC-type triblock copolymers in mixed solvents with tuned polarities, *Microscopy Research and Technique*, 74 (12): 1076-1082, 2011 ISSN: 1097-0029
- V. Alahverdijeva, K. 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 & Surfaces A*, 323 132-138 (2008) ISSN: 0927-7757
599. George, J., Sreejith, L., Effect of added brine on the physico chemical studies of sodium dodecyl sulfate and aqueous gelatin, *AIP Conference Proceedings* 1391:526-528, 2011 ISSN 0094-243X
- Exerowa, D., Gotchev, G., Kolarov, T., Kristov, Khr., Levecke, B., Tadros, Th., Comparison of oil-in-water emulsion films produced using ABA or AB_n copolymers, *Colloids and Surfaces A*, 335 (1-3), 50-54 (2009) ISSN: 0927-7757
600. Ramírez, P., Muñoz, J., Fainerman, V.B., Aksenenko, E.V., Mucic, N., Miller, R., Dynamic interfacial tension of triblock copolymers solutions at the water-hexane interface, *Colloids and Surfaces A*: 391 (1-3), 5: 119-124, 2011 ISSN: 0927-7757
- Kashchiev, D., Exerowa, D., Bilayer lipid membrane permeation and rupture due to hole formation, *BBA - Biomembranes*, 732 (1), 133-145 (1983) ISSN: 0005-2736
601. Farajzadeh, R., Muruganathan, R.M., Rossen, W.R., Krastev, R., Effect of gas type on foam film permeability and its implications for foam flow in porous media, *Advances in Colloid and Interface Science*, 168 (1-2), 14: 71-78, 2011 ISSN: 0001-8686
- Scheludko, A., Exerowa, D., Über den elektrostatischen und van der Waalsschen zusätzlichen Druck in wässrigen Schaumfilmen *Kolloid-Zeitschrift*, 168 (1), 24-28 (1960) ISSN: 0368-6590
602. Parkinson, L., Ralston, J., Dynamic aspects of small bubble and hydrophilic solid encounters, *Advances in Colloid and Interface Science*, 168 (1-2), 14: 198-209, 2011 ISSN: 0001-8686
- Ivanova, R., Balinov, B., Sedev, R., Exerowa, D., Formation of a stable, highly concentrated O/W emulsion modeled by means of foam films, *Colloids and Surfaces A*, 149 (1-3), 23-28 (1999) ISSN: 0927-7757
603. Maiti, S., Mishra, I.M., Bhattacharya, S.D., Joshi, J.K., Removal of oil from oil-in-water emulsion using a packed bed of commercial resin, *Colloids and Surfaces A* 389 (1-3), 20: 291-298, 2011 ISSN: 0927-7757

- Mileva, E., Exerowa, D., Foam films as instrumentation in the study of amphiphile self-assembly *Advances in Colloid and Interface Science* 100-102, 547-562 (2003) ISSN: 0001-8686
604. Yu, Q., Huang, H., Peng, X., Ye, Z., Ultrathin free-standing close-packed gold nanoparticle films: Conductivity and Raman scattering enhancement, *Nanoscale*, 3 (9): 3868-3875, 2011 ISSN:2040-3364
- Platikanov, D., Exerowa, D., Thin liquid films (2005) *Fundamentals of Interface and Colloid Science*, 5 (C), pp. 1-91 ISSN: 1874-5679
605. Restolho, J., Mata, J.L., Shimizu, K., Canongia Lopes, J.N., Saramago, B., Wetting films of two ionic liquids: [C8mim][BF4] and [C 2OHmim][BF4], *Journal of Physical Chemistry C*, 115 (32): 16116-16123, 2011 ISSN: 1932-7447
606. Kruglyakov, P.M. , Elaneva, S.I., Vilkova, N.G., About mechanism of foam stabilization by solid particles, *Advances in Colloid and Interface Science* 165 (2): 108-116, 2011 ISSN: 0001-8686
- Exerowa, D., Gotchev, G., Kolarov, T., Khristov, Khr., Leveck, B., Tadros, Th., Interaction forces in thin liquid films stabilized by hydrophobically modified inulin polymeric surfactant. 2. Emulsion films, *Langmuir*, 23 (4), 1711-1715 (2007) ISSN: 0743-7463
607. Restolho, J., Mata, J.L., Shimizu, K., Canongia Lopes, J.N., Saramago, B., Wetting films of two ionic liquids: [C8mim][BF4] and [C 2OHmim][BF4], *Journal of Physical Chemistry C*, 115 (32): 16116-16123, 2011 ISSN: 1932-7447
- Sedev, R., Exerowa, D., Findenegg, G.H. 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), 119-123 (2000) ISSN: 0303-402X.
608. Jordanova, A., Tenchov, B., Lalchev, Z., Effects of the interaction and surface morphology of mixed DPoPE/Poloxamer 188 monolayers and thin liquid films, *Soft Matter*, 7 (15): 7003-7012, 2011 ISSN: 1744-6848
- Sedev, R., Exerowa, D. DLVO and non-DLVO surface forces in foam films from amphiphilic block copolymers *Advances in Colloid and Interface Science*, 83 (1), 111-136 (1999) ISSN: 0001-8686
609. Jordanova, A., Tenchov, B., Lalchev, Z., Effects of the interaction and surface morphology of mixed DPoPE/Poloxamer 188 monolayers and thin liquid films, *Soft Matter*, 7 (15): 7003-7012, 2011 ISSN: 1744-6848
- Exerowa, D., Kolarov, T., Esipova, N.E., Yankov, R., Zorin, Z.M. Foam and Wetting Films from Aqueous Cetyltrimethylammonium Bromide Solutions: Electrostatic Stability, *Colloid Journal*, 63 (1), 45-52 (2001) ISSN: 1061-933X
610. Chakrabarti, A., Lu, J., McNamara, A.M., Kuta, L.M., Stanley, S.M., Xiao, Z., Maguire, J.A., Hosmane, N.S., Tin(IV) sulfide: Novel nanocrystalline morphologies, *Inorganica Chimica Acta* 374 (1): 627-631, 2011 ISSN: 0020-1693
- Exerowa, D., Platikanov, D. (2007) *Colloid Stability: The Role of Surface Forces - Part 1*, Wiley-VCH, Weinheim
611. Bac, L.H., Kim, J.S., Kim, J.C., Size, optical and stability properties of gold nanoparticles synthesized by electrical explosion of wire in different aqueous media, *Reviews on Advanced Materials Science* 28 (2): 117-121, 2011 ISSN: 1022-6680
- Sedev, R., Exerowa, D., Findenegg, G.H. 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), 119-123 (2000) ISSN: 0303-402X
612. Brigante, M., Schulz, P.C., Aggregation and adsorption at the air-solution interface of the cetyltrimethyl ammonium tosylate with two poly(oxyethylene)-poly(oxypropylene)-poly(oxyethylene) block copolymers aqueous mixtures, *Journal of Surfactants and Detergents* 14 (3): 439-453, 2011 ISSN: 1097-3958
- Exerowa, D., Cohen, R., Nikolova, A. Newton black films stabilized with insoluble monolayers obtained by adsorption from the gas phase, *Colloids and Surfaces*, 24 (1), 43-49 (1987) ISSN: 0927-7757

613. Bresme, F., Chacón, E.b, Martínez, H., Tarazona, P., Adhesive transitions in Newton black films: A computer simulation study, *Journal of Chemical Physics* 134 (21): Article number 214701, 2011 ISSN: 1932-7447
- K. Khristov, D. Exerowa, K. Malysa, Surfactant foaming: new concepts and perspectives on the basis of model studies, in: *Proceedings Eurofoam 2000*, Delft, The Netherlands, 2000, 21–31.
614. M. Kostoglou, E. Georgiou, T.D. Karapantsios, A new device for assessing film stability in foams: Experiment and theory, *Colloids and Surfaces A* 382: 64–73, 2011 ISSN: 0927-7757
- K. Khristov, D. Exerowa, L. Christov, A. Makievski, R. Miller, Foam analyzer: an instrument based on the foam pressure drop technique, *Rev. Sci. Instrum.* 75 4797–4803 (2004) ISSN 0034-6748
615. M. Kostoglou, E. Georgiou, T.D. Karapantsios, A new device for assessing film stability in foams: Experiment and theory, *Colloids and Surfaces A* 382: 64–73, 2011 ISSN: 0927-7757
- Khristov, K., Exerowa, D., Minkov, G., Critical capillary pressure for destruction of single foam films and foam: Effect of foam film size *Colloids and Surfaces A*, 210 (2-3), 159-166 (2002) ISSN: 0927-7757
616. Ran, L., Jones, S.A., Embley, B., Tong, M.M., Garrett, P.R., Cox, S.J., Grassia, P., Neethling, S.J., Characterisation, modification and mathematical modelling of sudsing, *Colloids and Surfaces A*, 382 (1-3): 50-57, 2011 ISSN: 0927-7757
- Nikolova, A., Exerowa, D., Rupture of common black films. Experimental study *Colloids and Surfaces A*, 149 (1-3) 185-191 (1999) ISSN: 0927-7757
617. Osorio, P., Urbina-Villalba, G., Influence of drop deformability on the stability of decane-in-water emulsions, *Journal of Surfactants and Detergents* 14 (2): 281-300, 2011 ISSN: 1097-3958
- Exerowa, D. Effect of adsorption, ionic strength and pH on the potential of the diffuse electric layer *Kolloid-Zeitschrift & Zeitschrift für Polymere*, 232 (1), 703-710 (1969) ISSN: 0368-6590
618. Zawala, J., Malysa, K., Influence of the impact velocity and size of the film formed on bubble coalescence time at water surface, *Langmuir* 27 (6): 2250-2257, 2011 ISSN: 0743-7463
- Kolarov, T., Zorin, Z., Platikanov, D. Profile of the transition region between aqueous wetting films on quartz and the adjacent meniscus, *Colloids and Surfaces*, 51(C), 37-47 (1990) ISSN: 0927-7757.
619. Emel'yanenko, A.M., Boinovich, L.B., Analysis of wetting as an efficient method for studying the characteristics of coatings and surfaces and the processes that occur on them: A review, *Inorganic Materials* 47 (15): 1667-1675, 2011 ISSN: 0020-1685
620. Boinovich, L., Emelyanenko, A., Wetting and surface forces, *Advances in Colloid and Interface Science*, 165 (2): 60-69, 2011 ISSN: 0001-8686
- Alexandrova L, Grigorov L, Precipitate and adsorbing colloid flotation of dissolved copper, lead and zinc ions, *Int J Miner Process.*, 48, 111-125 (1996) ISSN: 0301-7516
621. Santander M., Valderrama M., Guevara M., Rubio J., Adsorbing colloidal flotation removing metals ions in modified jet cell, *Minerals Engineering* 168: 105-113, (2011) ISSN: 0892-6875
- Lazarov D, Alexandrova L, Nishkov I., Effect of temperature on the kinetics of the froth flotation, *Minerals Engineering*, 7: 503-509, (1994) ISSN: 0892-6875
622. Albjanic B., Amini E., Wightman E., Ozdemir O., Nguen AV., Bradshaw DJ., A relationship between the bubble-particle attachment time and mineralogy of copper-sulphide ore, *Minerals Engineering*, 24: 1010-1015, 2011 ISSN: 0892-6875
- Alexandrova L, Nedialkova T., Nishkov, Electroflotation of metal ions in waste water, *Int. J Miner. Process.*, 41: 285-294 (1994) ISSN: 0301-7516
623. Elshazly, A. H., Augmentation of the performance of bath electrocoagulation unit by using gas sparging, *Int.J.of Chem.Reactor Eng.* 9: A39-, 2011. ISSN: 1542-6580
624. El-Shazly A.H., Augmentation of the performance of bath electrocoagulation unit by using gas sparging, *Defect and Diffusion Forum*, 312-315: 700-707, 2011 ISSN: 1012-0386
- Johansson B, Pugh R, Alexandrova L, Flotation de-inking studies using model hydrophobic particles and non-ionic dispersants, *Colloids and Surfaces A*, 170 217-229(2000) ISSN: 0927-7757.

625. Vasshith S., Bennington CPI, Crace JR, Kerekes RJ, Column flotation deinking: State-of-the-art and opportunities, *Resources Conservation and Recycling*, 55: 1154-1177, 2011 ISSN: 0921-3449
626. Li X. B., Liu J.-T., Xiao J.-Q., Xiao X., J. Modification technology for separation of oily sludge, *Central South Univ. Technology*, 18: 367-373, 2011 ISSN: 10059784
- Lazarov D., L. Alexandrova and I. Nishkov, Temperature influence on the flotation behavior of magnetite, *Proc. of the 5th Int. Min. Process. Symposium, Cappadocia, Turkey, 6-8 Sept., 1994*, ed. H. Demirel and S. Ersayin, Balkema, 167-171 (1994).
627. Estemeaei M., Irannajad M., Gharabaghi M., Influence of important factors on flotation of zinc oxide mineral using cationic, anionic and mixed(cationic/anionic) collectors, *Minerals Engineering*, 24: 1402-1408, 2011 ISSN: 0892-6875
- Anh V. Nguyen, L. Alexandrova, L Grigorov, and Graeme J. Jameson , Dewetting kinetics on silica substrates: Three Phase Contact Expansion Measurements for Aqueous Dodecylammonium Chloride Films, *Min.Eng.*, 19 651-658 (2006) ISSN: 0892-6875
628. Mishchuk N.A., The model of hydrophobic attraction in the framework of classical DLVO forces, *Advances in Colloid and Interface Sci.*, 168: 149-166, 2011 ISSN: 0001-8686
- L.Alexandrova, Thin wetting films from aqueous solutions of surfactants and phospholipid dispersions, *Advances in Colloid and Interface Sci.*,132: 33-44 (2007) ISSN: 0001-8686
629. Kristen-Hochrein N., Lashewsky A., Miller R., von Klitzing R., Stability of foam films of oppositely charged polyelectrolyte/surfactant mixture: Effect of isoelectric point, *Journal of Physical Chemistry*, 115: 14475-14483, 2011 ISSN: 1932-7447
- Khristov, K. ,Czarnecki, J., Emulsion films stabilized by natural and polymeric surfactants, *Current Opinion in Colloid and Interface Science*, 15 (5) 324-329 (2010) ISSN: 1359-0294
630. Basheva, E.S., Kralchevsky, P.A., Christov, N.C., Danov, K.D., Stoyanov, S.D., Blijdenstein, T.B.J., Kim, H.-J., Pelan, E.G., Lips, A, Unique properties of bubbles and foam films stabilized by HFBII hydrophobin, *Langmuir*, 27 (6): 2382-2392 2011 ISSN: 0743-7463
- Khristov, K., Taylor, S.D., Czarnecki, J., Masliyah, J. Thin liquid film technique - Application to water-oil-water bitumen emulsion films, *Colloids and Surfaces A*, 174 (1-2), 183-196 (2000) ISSN: 0927-7757
631. Jiang, T., Hirasaki, G.J., Miller, C.A., Ng, S. Effects of clay wettability and process variables on separation of diluted bitumen emulsion, *Energy and Fuels*, 25 (2), 17: 545-554 2011 ISSN: 0887-0624
632. D. Langevin, C. Marquez-Beltran, J. Delacotte, Surface force measurements on freely suspended liquid films, *Advances in Colloid and Interface Science* 168: 124–134 2011 ISSN: 0001-8686
- F. Mostowfi, K. Khristov, J. Czarnecki, J. Masliyah and S. Bhattacharjee, Electric field mediated breakdown of thin liquid films separating microscopic emulsion droplets. *Appl. Phys. Lett.*, 90, 184102 (2007) ISSN: 0003-6951.
633. Asghar Esmaeli, Payam Sharifi, The transient dynamics of a liquid column in a uniform transverse electric field of small strength, *Journal of Electrostatics*, 69 (6): 504-511 2011 ISSN: 0304-3886
634. Asghar Esmaeli, Marrivada N. Reddy, The electrohydrodynamics of superimposed fluids subjected to a nonuniform transverse electric field, *International Journal of Multiphase Flow*, 37: 1331–1347 2011 ISSN: 0301-9322
- Cosima Stubenrauch and Khristo Khristov, Foams and foam films stabilized by CnTAB: Influence of the chain length and of impurities, *Journal of Colloid and Interface Science*, 286,2, 710-718 (2005) ISSN: 0021-9797
635. Nora Kristen-Hochrein, Natascha Schelero, Regine von Klitzing, Effects of oppositely charged surfactants on the stability of foam films, *Colloids and Surfaces A* 382 (1–3), 5: 165-173 2011 ISSN: 0927-7757
- Elena Mileva, Glenn T. Evans, Dimerization and solvation equilibria. The direct correlation function", *Journal of Chemical Physics*,113, 3766-3771 (2000) ISSN: 0021-9606
636. Gazzillo, D., Fluid of hard spheres with dipolar-like patch interaction and effect of adding an isotropic adhesion, *Molecular Physics* 109 (1), pp. 55-64 2011 ISSN: 0026-8976

- Elena Mileva "Impact of adsorption layers on thin liquid films", *Curr. Opinion Coll&Interface Sci.*, 15,315–323 (2010) ISSN: 1359-0294
637. Tsekov, R., Adsorption component of the disjoining pressure in thin liquid films, *Anniv. Uni. Sofia, Fac. Chem.* 103, in press (2011) ISSN: 0584-0317
- P. Tchoukov, E. Mileva, D. Exerowa, Experimental evidences of self-assembly in foam films from amphiphilic solutions, *Langmuir*, 19, 1215, (2003) ISSN: 0743-7463
638. 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; 461-480, DOI 10.1007/978-94-007-2076-3 26, 2011
639. M.Velinova, D. Segupta, S.J.Marrink, A.Tadjer, Coarse grained MD simulation of micelle formation for peptide encapsulation purposes, *Chemistry*, 57 (2011) ISSN: 1521-3765.
- E. Mileva, P. Tchoukov, D. Exerowa, Amphiphilic nanostructures in thin liquid films”, *Adv. Coll&Interf. Sci.*, 114-115, 47, (2005) ISSN: 0001-8686
640. Yakhmi, J.V., *Soft Matter: A Perspective*, *Journal of Materials Education*, 33: 149-160, 2011 ISSN: 1744-6848
641. 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; 461-480, 2011, DOI 10.1007/978-94-007-2076-3 26
642. M.Velinova, D. Segupta, S.J.Marrink, A.Tadjer, Coarse grained MD simulation of micelle formation for peptide encapsulation purposes, *Chemistry*, 57 (2011) ISSN: 1521-3765
- E. Mileva, P. Tchoukov, in *Colloid Stability: The Role of Surface Forces*, part I, vol. 1., Ed. Th. Tadros, Wiley-VCH, UK, 2007, Chapter 8, p. 187
643. Kostoglou, M., Georgiou, E., Karapantsios, T.D., “A new device for assessing film stability in foams: Experiment and theory”, *Colloids Surfaces A*, 382: 64-73, 2011 ISSN: 0927-7757
- D. Arabadzhieva, P. Tchoukov, E. Mileva, R. Miller, B. Soklev, Impact of amphiphilic nanostructures on formation and rheology of interfacial layers and on foam film drainage” *Ukrainian Journal of Physics*, 56, 801-810, 2011 ISSN: 2071-0186
644. M. Velinova, D. Sengupta, A. Tadjer, and S. Marrink, Sphere-to-rod transition of non-ionic surfactant micelles in aqueous solution by MD simulations, *Langmuir* 27, 14071–14077 2011 ISSN: 0743-7463
- K. Germanova, V. Donchev, Ch. Hardalov, L. Nikolov, *J. Phys. D: Appl. Phys.*, 20, 1507-1511, 1987 ISSN 0022-3727
645. Aktas, K., Acar, S., Salamov, B.G., Hydrogen discharges operating at atmospheric pressure in a semiconductor gas discharge system, *Plasma Sources Science and Technology* 20 (4), art. no. 045010, 2011 ISSN 0963-0252
- L. Nikolov, E. Mileva, Neutrally buoyant particle in the boundary layer at a plate.I.Viscous interaction" ,*Coll&Polym. Sci.*, 272, 12, (1994), pp 1560-1566 ISSN: 0303-402X
646. Smith, F.T., Wilson, P.L. Fluid-body interactions: Clashing, skimming, bouncing”, *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* 369 (1947), pp. 3007-3024, 2011 ISSN: 1471-2962
- E.Mileva, L.Nikolov, Fine particles inside boundary layers on rising bubbles, *Colloids&Surfaces A*, 168, (2000), pp 123-132 ISSN: 0927-7757
647. Frenkev, V.L., On the mechanisms of flotation of small and big bubbles simulated with axis symmetry”, *Comptes Rendus de L'Academie Bulgare des Sciences* 64 (6), pp. 883-890, 2011 ISSN 1310-1331
- Radeva Ts., Ed., *Physical Chemistry of Polyelectrolytes*, Marcel Dekker, New York, 2001.
648. J. Chen, Y. Shao, H. Yang, R. Cheng, Analysis of viscosity abnormalities of polyelectrolytes in dilute solutions, *Chin. J. Polym. Sci.* 29 (6): 750-756, 2011 ISSN: 0256-7679
649. Z.O. Ozdemir, Z. Akdeste, Development of polyelectrolyte based bioconjugates using with synthetic viral peptides, *J. Eng. Nat. Sci. (Sigma)* 29: 65-89, 2011. ISSN: 1304-7205
650. Lyklema J., Deschenes L., The first step in layer-by-layer deposition: Electrostatics and/or non-electrostatics?, *Adv. Colloid Interface Sci.* 168 (1-2): 135-148, 2011 ISSN: 0001-8686

651. Mann B.A.F.; Kremer K.; Lenz O., Hoim C., *Hydrogels in Poor Solvents: A Molecular Dynamics Study*, *Macromolecular theory and simulations* 20 (8): 721-734, 2011 ISSN: 1521-3919
652. Yang Z., Shang Y., Lu Y., Chen Y., Huang X., Chen A., Jiang Y., Cheng R., *Flocculation properties of biodegradable amphoteric chitosan-based flocculants*, *Chem. Eng. J.* 172 (1): 287-295, 2011 ISSN: 1385-8947.
653. Zalar P., Kamkar D., Naik R., Ouchen F., Grote J.G., Bazan G.C., Nguyen T.-Q, *DNA Electron Injection Interlayers for Polymer Light-Emitting Diodes*, *J. Am. Chem. Soc.*, 133 (29): 11010-11013, 2011 ISSN: 0002-7863
654. Mantzaridis Ch., Pispas S., *Poly[(sodium sulfamate/carboxylate) isoprene-b-2-vinyl pyridine] Block Polyampholytes: Synthesis and Self-Assembly in Aqueous Media*, *J. Polym. Sci. A: Polym. Chem.*, 49 (14): 3090-3098, 2011 ISSN: 1099-0518
655. Lu Y., Shang Y., Huang X. Chen A., Yang Z., Jiang Y., Cai J., Cheng R., *Preparation of Strong Cationic Chitosan-graft-Polyacrylamide Flocculants and Their Flocculating Properties*, *Ind. Eng. Chem. Res.*, 50 (12): 7141-7149, 2011 ISSN: 0888-5885
656. Mukherjee S., Dan A., Bhattacharya S., et al., *Physicochemistry of Interaction between the Cationic Polymer Poly(diallyldimethylammonium chloride) and the Anionic Surfactants Sodium Dodecyl Sulfate, Sodium Dodecylbenzenesulfonate, and Sodium N-Dodecanoylsarcosinate in Water and Isopropyl Alcohol-Water Media*, *Langmuir* 27 (9): 5222-5233, 2011 ISSN: 0743-7463
657. J. Combet, M. Rawiso, C. Rochas, S. Hoffmann, F. Boue, *Structure of Polyelectrolytes with Mixed Monovalent and Divalent Counterions: SAXS Measurements and Poisson-Boltzmann Analysis*, *Macromolecules* 44 (8): 3039-3052, 2011 ISSN 0024-9297
658. J. Pozar, K. Bohinc, V. Vlachy, D. Kovacevic, *Ion-specific and charge effects in counterion binding to poly(styrenesulfonate) anions*, *Phys. Chem. Chem. Phys.* 13 (34): 15610-15618, 2011 ISSN 1463-9076
659. Guillaume-Gentil O., Zahn R., Lindhoud S., Graf N., Voros J., Zambelli T., *From nanodroplets to continuous films: how the morphology of polyelectrolyte multilayers depends on the dielectric permittivity and the surface charge of the supporting substrate*, *Soft Matter*, 7 (8): 3861-3871, 2011 ISSN: 1744-6848
660. Pispas S., *Self-assembled nanostructures in mixed anionic-neutral double hydrophilic block copolymer/cationic vesicle-forming surfactant solutions*, *Soft Matter*, 7 (2): 474-482, 2011 ISSN: 1744-6848
661. Karayianni M., Pispas S., Chryssikos G.D., Gionis V., Giatrellis S., Nounesis G., *Complexation of lysozyme with poly(sodium)sulfamate-carboxylate(isoprene)*, *Biomacromolecules*, 12 (5): 1697-1706, 2011 ISSN 1525-7797
- Radeva Ts., Petkanchin I., *Electric properties of adsorbed polystyrenesulfonate. I. Dependence on the polyelectrolyte molecular weight*, *J. Colloid Interface Sci.* 220, 112-117 (1999) ISSN: 0021-9797
662. B. Huang, T.G.M. Van de Ven, R.J. Hill, *Electro-optics of Polymer Nanotube Dispersions*, *J. Phys. Chem.* 115 (17): 8447-8456, 2011 ISSN: 1089-5639
- Radeva Ts., Grozeva M., *In situ determination of thickness and electrical properties of multilayers from weak polyelectrolytes*, *J. Colloid Interface Sci.*, 287, 415-421, 2005 ISSN: 0021-9797
663. X. Liu, K.K. Goli, J. Genser, O.J. Rojas, *Multilayers of Weak Polyelectrolytes of Low and High Molecular Mass Assembled on Polypropylene and Self-Assembled Hydrophobic Surfaces*, *Langmuir*, 27 (8): 4541-4550, 2011 ISSN: 0743-7463
664. J.Y. Son, C.H. Kim, J.H. Cho, Y.-S. Shin, H.M. Jang, J., *Selective Ferroelectric Domain Mapping of PbTiO₃ Thin Films Using Self-Assembled Polyelectrolyte*, *Electrochem. Soc.*, 158: 546-548, 2011 ISSN: 0013-4651
- Radeva Ts., Kamburova K., *Electro-optics of colloid-polyelectrolyte complexes: Counterion release from adsorbed macromolecules*, *J. Colloid Interface Sci.* 293, 290-295 (2006) ISSN: 0021-9797
665. C. Cametti, D. Truzzolillo, *Many facets of the polyelectrolyte and oppositely charged colloidal particle complexation: counterion release and electrical conductivity behavior*, *J. Phys. Chem. B* 115: 7248-7255, 2011 ISSN: 1520-6106
- Radeva Ts., Kamburova K., Petkanchin I., *Formation of polyelectrolyte multilayers from polysaccharides at low ionic strength*, *J. Colloid Interface Sci.*, 298, 59-65 (2006) ISSN: 0021-9797
666. M.G. Carneiro-Da-Cunha, M.A. Cerqueira, B.W.S. Souza, J.A. Teixeira, A.A. Vicente, *Influence of concentration, ionic strength and pH on zeta potential and mean hydrodynamic diameter of edible*

- polysaccharide solutions envisaged for multilayered films production, *Carbohydrate Polymers*, 85(3): 522-528, 2011 ISSN: 0144-8617
667. V. Singh, M. Zharnikov, A. Gulino, T. Gupta, DNA immobilization, delivery and cleavage on solid supports, *J. Mater. Chem.*, 21: 10602-10618, 2011 ISSN: 0959-9428.
- K. Kamburova, V. Milkova, I. Petkanchin, Ts. Radeva, Effect of pectin charge density on formation of multilayer films with chitosan, *Biomacromolecules* 9, 1242-1247 (2008) ISSN: 1525-7797.
668. K. Abdelkebir, F. Gaudiere, S. Morin-Grognon, et al., Evidence of different growth regimes coexisting within biomimetic Layer-by-Layer films, *Soft Matter* 7 (19): 9197-9205, 2011 ISSN: 1744-6848
- V. Milkova, Ts. Radeva, The effect of ionic strength on electrical properties of polyelectrolyte multilayers on colloidal particles, *J. Phys.: Condens. Matt.* 22, 494107 (6pp.) (2010) ISSN 0953-8984 .
669. X. Ouyang, Y. Deng, Y. Qian et al., Adsorption Characteristics of Lignosulfonates in Salt-Free and Salt-Added Aqueous Solutions, *Biomacromolecules* 12 (9): 3313-3320, 2011 ISSN: 1525-7797.
- V. Milkova, K. Kamburova, Ts. Radeva, M. Stoimenova, Electrical properties of polyelectrolyte layers adsorbed on colloidal particles at different ionic strength, *Langmuir* 26 (18), 14488-14493 (2010) ISSN: 0743-7463
670. P.S. Bhosale, J. Chun, J.C. Berg, Electrophoretic mobility of poly(acrylic acid)-coated alumina particles, *J. Colloid Interface Sci.*, 358 (1): 123-128, 2011 ISSN: 0021-9797
- Radeva Ts., Petkanchin I., Electric properties of adsorbed polystyrenesulfonate. I. Dependence on the polyelectrolyte molecular weight, *J. Colloid Interface Sci.* 220 (1), 112 (1999) ISSN: 0021-9797
671. B. Huang, T.G.M. Van de Ven, R.J. Hill, Electro-optics of Polymer Nanotube Dispersions, *J. Phys. Chem.* 115 (17): 8447-8456, 2011 ISSN: 1089-5639
- Zhivkova I., Zhivkov A., Stoychev D., Viscosimetric study of high molecular weight polyethylene oxide, *Journal of Materials Science Letters*, 15, 2115-2117, 199 ISSN: 1573-4811.
672. Nayana, K.O., Venkatesha, T.V., Synergistic effects of additives on morphology, texture and discharge mechanism of zinc during electrodeposition, *Journal of Electroanalytical Chemistry*, 663: 98-107, 2011 ISSN: 1572-6657
- Zhivkova I.V., Zhivkov A.M., Stoychev D.S., Electrostatic behaviour of polyethylene oxide, *European Polymer J.*, 34, 531-538, 1998 ISSN: 0014-3057
673. Mallakpour, S., Rafiemanzelat, F., Zolfigol, M.A., Salehi, P., Yang, D.Y. Synthesis, characterization, and properties of co-poly(ether-urethane-urea)s containing lariat cryptand 22: Li⁺ harvesting polymers, *Polymer Bulletin*, 67: 553-569, 2011 ISSN: 0170-0839
674. Koleva, D.A., Boshkov, N., Van Breugel, K., De Wit, J.H.W., Steel corrosion resistance in model solutions, containing waste materials, *Electrochimica Acta*, 58: 628-646, 2011 ISSN: 0013-4686
- Zhivkov A.M., van der Zande B.M.I., Stoylov S.P., Electrooptics of metal particles: Electric birefringence of gold rods, *Colloids and Surfaces A*, 209 (2-3), 299-303, 2002 ISSN: 0927-7757
675. Huang Bin; van de Ven Theo G. M.; Hill Reghan J., Electro-optics of Polymer Nanotube Dispersions, *J. Phys. Chem. C*, 115 (17): 8447-8456, 2011 ISSN: 1932-7447
676. Dozov, I., Paineau, E., Davidson, P., Antonova, K., Baravian, C., Bihannic, I., Michot, L.J., Electric-field-induced perfect anti-nematic order in isotropic aqueous suspensions of a natural beidellite clay, *Journal of Physical Chemistry B*, 115 (24): 7751-7765, 2011 ISSN: 1520-6106
- Zhivkov A.M., Stoylov S.P., Electro-optical characterization of aqueous laponite suspensions, *Colloids and Surfaces A*, 209 (2-3), 315-318, 2002 ISSN: 0927-7757.
677. Dozov, I., Paineau, E., Davidson, P., Antonova, K., Baravian, C., Bihannic, I., Michot, L.J., Electric-field-induced perfect anti-nematic order in isotropic aqueous suspensions of a natural beidellite clay, *Journal of Physical Chemistry B*, 115: 7751-7765, 2011 ISSN: 1520-6106
- Zhivkov A.M., Dependence of depletion layer thickness on polymer concentration determined by Vincent's pragmatic and Donath's electrophoretic theories, *J. Colloid and Interface Sci.* 113, 122-127, 2007 ISSN: 0021-9797

678. Lee R.-J., Tsai W.-C., Cheng W.-T., Shiue B.-C., Lin J.-J., Self-assembled and crystallized composites made from poly(ether amine) and montmorillonite in the presence of copper(II) ions, *Journal of Applied Polymer Science*, 119: 3437-3445, 2011 ISSN: 1097-4628
679. Li, Q.-L., The research on the influences of relative factors for factual depletion layer characteristics in MOSFETs, *Proc. 2011 International Conference on Electronic and Mechanical Engineering and Information Technology, EMEIT 2011 1*, pp. 534-537, 2011.
- Zhivkov A.M., Change of purple membranes geometry induced by protein adsorption, *Colloids and Surfaces B: Biointerfaces*, 56, 170-173, 2007 ISSN: 0927-7765
680. Corbett, J.C.W., Jack, R.O., Measuring protein mobility using modern microelectrophoresis, *Colloids and Surfaces A*, 376: 31-41, 2011 ISSN: 0927-7757
- Zhivkov A.M., Gyurova A.Y., High frequency electric polarizability of bacteria *E. coli*: Dependence on the medium ionic strength, *Colloids and Surfaces B: Biointerfaces*, 66, 201-205, 2008 ISSN: 0927-7765
681. Stoylov, S.P., Stoilova-Mcphie, S., Electro-optic properties of organic nanotubes, *Advances in Colloid and Interface Science*, 166 (1-2): 24-35, 2011 ISSN: 0001-8686
- Gyurova A.Y., Zhivkov A.M., Influence of ethanol on the high frequency electric polarizability of *E. coli*, *Biophysical Chemistry*, 139, 8-12, 2009 ISSN: 0301-4622
682. Stoylov, S.P., Stoilova-Mcphie, S., Electro-optic properties of organic nanotubes, *Advances in Colloid and Interface Science*, 166 (1-2): 24-35, 2011 ISSN: 0001-8686
- Zhivkov A.M., Gyurova A.Y., Influence of cytoplasm electrolyte concentration on Maxwell-Wagner polarizability of bacteria *E. coli*, *Journal of Physical Chemistry B*, 113, 8375-8382, 2009 ISSN: 1520-6106
683. Stoylov, S.P., Stoilova-Mcphie, S., Electro-optic properties of organic nanotubes, *Advances in Colloid and Interface Science*, 166 (1-2): 24-35, 2011 ISSN: 0001-8686
- Miteva S., Stoimenova M., Electro-optic characteristics of aqueous beta-FeOOH particles, *J. of Colloid and Interface Sci.*, 273 (2), 490-496, 2004 ISSN: 0021-9797
684. Min Yu Lin; Zheng Fang Cai; Zhao Ying Guo; et al., An efficient precursor method to porous hematite architectures and their photocatalytic properties, *Solid State Sciences*, 13 (5): 976-980, 2011 ISSN: 1293-2558
- Stoimenova, M., Koynova, R., Christova, J., Tenchov, B., Electrooptic observation of the gel-liquid crystalline phase-transition in liposomes, *J. of Colloid and Interface Sci.*, 151 (2), 591-593, (1992) ISSN: 0021-9797
685. Sagisaka M., Fujita Y., Shimizu Y., Osanai, C., Yoshizawa, A., Unique liquid crystal behavior in water of anionic fluorocarbon-hydrocarbon hybrid surfactants containing oxyethylene units, *J. of Colloid and Interface Sci.*, 357 (2): 400-406, 2011 ISSN: 0021-9797
- Stoimenova, M., Electro-Optic Behavior of Colloids, *Encyclopedia Surface Colloid*, 2012-2031, (2002).
686. Huang Bin; van de Ven Theo G. M.; Hill Reghan J., Electro-optics of Polymer Nanotube Dispersions, *J. Phys. Chem. C*, 115 (17): 8447-8456, 2011 ISSN: 1932-7447
- Dobrikova A, Taneva SG., Busheva M., Apostolova, E., Petkanchin, I., Surface electric properties of thylakoid membranes from *Arabidopsis thaliana* mutants, *Biophysical Chemistry*, 67 (1-3), 239-244, 1997 ISSN: 0301-4622
687. Szpryngiel S., Ge Changrong; Iakovleva I., Georgiev, A., Lind, J., Wieslander A., Maler L., Lipid Interacting Regions in Phosphate Stress Glycosyltransferase at DGD2 from *Arabidopsis thaliana*, *Biochemistry*, 50 (21): 4451-4466, 2011 ISSN: 0006-2960.
- Mollov P., Mihalev K., Buleva M., Petkanchin I., Cloud stability of apple juices in relation to their particle charge properties studied by electro-optics, *Food Research International*, 39 (5), 519-524, 2006 ISSN: 0963-9969
688. Ndiaye C., Xu Shi-Ying; Wang Zhang, Optimization of processing parameters for natural cloudy mango (*Mangifera indica* L.) juice using pectolytic and cellulolytic enzymes, *Fruits*, 66 (4): 291-303, 2011 ISSN: 0248-1294

- Peikov V., Sasai R., Tanigawa M., Petkanchin I., Yamaoka K., Electrooptics of beta-FeOOH particle in aqueous media - 2. Field-strength dependence of decay and steady-state birefringence, and the hydrodynamic and electrooptic properties, *J. of Colloid and Interface Sci.*, 295 (2), 445-456, 2006 ISSN: 0021-9797
689. Dozov I., Paineau E., Davidson P., Antonova, K., Baravian, C., Bihannic, I., Michot, L.J., "Electric-Field-Induced Perfect Anti-Nematic Order in Isotropic Aqueous Suspensions of a Natural Beidellite Clay", *J. of Physical Chem. B*, 115 (24): 7751-7765, 2011 ISSN: 1520-6106
- Stoylov S.P., Petkanchin I., Transient electric Light Scattering. 3. Investigation of stability of palygorskite colloid solutions, *J. of Colloid and Interface Sci.*, 40(2), 159-163, 1972 ISSN: 0021-9797
690. Gantenbein D., Schoelkopf J., Matthews G.P., Gane P.A.C., Determining the size distribution-defined aspect ratio of rod-like particles, *Appl. Clay Sci.*, 534(4): 538-543, 2011 ISSN: 0169-1317.
- Petkanchin I., Brueckner R., Sokerov S., Radeva Ts., Comparison of electric light scattering and birefringence for polydisperse systems, *Colloid and Polymer Sci.*, 257, 165-169, 1979 ISSN: 0303-402X
691. Mellissa J. Taylor, PhD Thesis, Oregon State University, USA, "Transient Electric Birefringence for Characterization of Cellulose Nanocrystals and Tobacco Virus Mosaic", 2011.
- Apostolova, EL., Dobrikova, AG., Ivanova, PI., Petkanchin, IB., Taneva, SG., Relationship between the organization of the PSII supercomplex and the functions of the photosynthetic apparatus, *J. of Photochemistry and photobiology B: Biology*, 83 (2), 114-122, 2006 ISSN: 1011-1344
692. Schaller S., Latowski D., Jemiola-Rzeminska M., Dawood A., Wilhelm C., Strazalka K., Goss R., Regulation of LHCII aggregation by different thylakoid membrane lipids, *Biochimica et biophysica acta –bioenergetics*, 1807 (3): 326-335, 2011 ISSN: 0005-2728
- Dobrikova, AG., Ivanov, AG., Morgan, R., Petkanchin, IB., Taneva, SG., Contribution of LHC II complex to the electric properties of thylakoid membranes: an electric light scattering study of Chl b-less barley mutant, *J. of Photochemistry and photobiology B-Biology*, 57 (1), 33-40, 2000 ISSN: 1011-1344
693. Schaller S., Latowski D., Jemiola-Rzeminska M., Dawood A., Wilhelm C., Strazalka K., Goss R., Regulation of LHCII aggregation by different thylakoid membrane lipids, *Biochimica et biophysica acta –bioenergetics*, 1807 (3): 326-335, 2011 ISSN: 0005-2728.
- Le Cam, E., Coulaud, D., Delain, E., Petitjean, P., Roques, BP., Gerard, D., Stoylova, E., Vuilleumier, C., Stoylov, S.P., Mely, Y., 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), 217-229, 1998 ISSN: 1097-0282.
694. Doetsch M., Fuertig B., Gstrein Th., Stampfl, S., Schroeder, R., The RNA annealing mechanism of the HIV-1 Tat peptide: conversion of the RNA into an annealing-competent conformation, *Nucleic acids research*, 39 (10): 4405-4418, 2011 ISSN 0305-1048.
- Stoylov S.P., Vuilleumier C., Stoylova E., DeRocquigny, H., Roques, BP., Gerard, D., Mely, Y., Ordered aggregation of ribonucleic acids by the human immunodeficiency virus type 1 nucleocapsid protein, *Biopolymers*, 41 (3), 301-312, 1997 ISSN: 1097-0282
695. Bernacchi S., Mercenne G., Tournaire C., Marquet, R., Paillart, J.-C., Importance of the proline-rich multimerization domain on the oligomerization and nucleic acid binding properties of HIV-1 Vif, *Nucleic acids research*, 39 (6): 2404-2415, 2011 ISSN 0305-1048
- Stoylov S. P., Electro-optical investigations of the dipole moments of nanoparticles, *Coll. and Interfaces B: Biointerfaces*, 56 (1-2), 50-58, (2007) Special Issue: 11 Symposium on Colloid and Molecular Electro-optics, Kyoto Univ., Inst. Chem. Res., Kyoto, Japan, May 22-25, 2006 ISSN: 0927-7765.
696. Huang Bin; van de Ven Theo G. M.; Hill Reghan J., Electro-optics of Polymer Nanotube Dispersions, *J. Phys. Chem. C*, 115 (17): 8447-8456, 2011 ISSN: 1932-7447
- Bernacchi S., Stoylov S.P., Piemont E., Ficheux D., Roques B.P., Darlix J.L., Mely Y., HIV-1 nucleocapsid protein activates transient melting of least stable parts of the secondary structure of TAR and its complementary sequence, *Journal of Molecular Biology*, 317 (3), 385-399, 2002 ISSN: 0022-2836
697. Takenaka, S., Juskowiak, B. Fluorescence detection of potassium ion using the G-quadruplex structure, *Analytical Sciences*, 27 (12): 1167-1172, 2011 ISSN: 0910-6340

698. Léonard, J., Gelot, T., Torgasin, K., Haacke, S., Ultrafast fluorescence spectroscopy of biologically relevant chromophores using type II difference frequency generation, *Journal of Physics: Conference Series*, 277 (1): Article number 012017, 2011 ISSN: 1742-6588
- Stoylov S.P., Stoimenova M., Ed., *Molecular and Colloidal Electro-optics*, Taylor and Francis Group, 2007.
699. Huang Bin; van de Ven Theo G. M.; Hill Reghan J., *Electro-optics of Polymer Nanotube Dispersions*, *J. Phys. Chem. C*, 115 (17): 8447-8456, 2011 ISSN: 1932-7447
700. Dozov, I., Paineau, E., Davidson, P., Antonova, K., Baravian, C., Bihannic, I., Michot, L.J., Electric-field-induced perfect anti-nematic order in isotropic aqueous suspensions of a natural beidellite clay, *Journal of Physical Chemistry B*, 115 (24): 7751-7765, 2011 ISSN: 1520-6106
701. Yi, X., Shuang, L., Shengli, N., Yanhua, L., Shizhen, K., Hongwen, D., Dielectric spectroscopy measured on dry, oil-, freshwater- and brine-wetted rocks using an insulating layer method and its relations to petrophysical parameters, *Environmental Earth Sciences*, 64 (4): 1059-1070, 2011 ISSN: 1866-6280
- Stoylov, S.P., *Colloid electro-optics: theory, techniques, application*, Academic Press INC., San Diego, 1991.
702. Huang Bin; van de Ven Theo G. M.; Hill Reghan J., *Electro-optics of Polymer Nanotube Dispersions*, *J. Phys. Chem. C*, 115 (17): 8447-8456, 2011 ISSN: 1932-7447
703. Dozov, I., Paineau, E., Davidson, P., Antonova, K., Baravian, C., Bihannic, I., Michot, L.J., Electric-field-induced perfect anti-nematic order in isotropic aqueous suspensions of a natural beidellite clay, *Journal of Physical Chemistry B*, 115 (24): 7751-7765, 2011 ISSN: 1520-6106
704. Okubo, T., Tsuchida, A., Stoimenova, M., *Electro-optic effects of colloidal crystals*, *Advances in Colloid and Interface Science*, 162 (1-2): 80-86, 2011 ISSN: 0001-8686
- Stoylov S.P., *Colloid electro-optics Electrically induced optical phenomena in disperse systems*, *Advances in Colloid and Interface Science*, 3 (1), 45-110, 1971 ISSN: 0001-8686
705. Okubo, T., Tsuchida, A., Stoimenova, M., *Electro-optic effects of colloidal crystals*, *Advances in Colloid and Interface Science*, 162 (1-2): 80-86, 2011 ISSN: 0001-8686
- Scheludko A., Stoylov S. Variation in the intensity of scattered light by solutions of DNA subjected to an electric field, *Biopolymers - Peptide Science Section*, 5(8), 723-726, 1967 ISSN: 1097-0282
706. Petrov, M.P., Voitylov, V.V., Klemeshev, S.A., Trusov, A.A., Effect of electric field on light scattering by aqueous colloids of diamond and graphite, *Optics and Spectroscopy (English translation of Optika i Spektroskopiya)*, 111 (5): 832-840, 2011 ISSN: 0030-400X
- Tuleva B., Christova N., Cohen R., Stoev G., Stoineva I., Production and structural elucidation of trehalose tetraesters (biosurfactants) from a novel alkanotrophic *Rhodococcus wratislaviensis* strain, (2008) *Journal of Applied Microbiology*, 104 (6), pp. 1703-1710 ISSN: 1364-5072
707. Jiménez, V., Bravo, V., Gutierrez, L.G. Integral approach for improving the degradation of recalcitrant petrohydrocarbons in a fixed-film reactor, *Water, Air, and Soil Pollution* 220 (1-4) pp. 301-312, 2011 ISSN 0049-6979
- S. Rashkov, D. Stoychev, L. Mirkova, T. Vitanov, Chr. Nanev, On the mechanism of the brightening and leveling effect of some additives during the electrolytic deposition of copper coatings from sulfuric acid electrolytes, *Comm. Dept. Chem., Bulg. Acad. Sci.* 18 (1985) 157-180. ISSN: 03241130
708. K. Ignatova, D. Stoykova, Study of the influence of nitrite anions on the electrode processes in ammonium electrolyte for Ag-Cu deposition, *Bulg. Chem. Comm.* 43 (1) (2011) 48-53. ISSN: 08619808
- Tomov, I., Monev, M., X-Ray diffraction study of anisotropy by formation and decomposition of nickel hydride. Part I: Orientation dependence of the extent of phase transformation of nickel into nickel hydride, *J. Appl. Electrochem.*, 22 (3) (1992) 262-267. ISSN: 0021-891X
709. Losurdo, M., Giangregorio, M.M., Capezzuto, P., Bruno, G., Ellipsometry as a real-time optical tool for monitoring and understanding graphene growth on metals, *J. Phys. Chem. C* 115 (44) (2011) 21804-21812. ISSN: 1932-7447.
- Bozhkov, C., Petrova, M., Rashkov, St., Nickel and cobalt synergism effect in zinc electrowinning from sulphate electrolytes, *J. Appl. Electrochem.*, 22 (1) (1992) 73-81. ISSN-0021-891X

710. Diban, N., Mediavilla, R., Urtiaga, A., Ortiz, I., Zinc recovery and waste sludge minimization from chromium passivation baths, *Journal of Hazardous Materials*, 192 (2) (2011) 801-807. ISSN-03043894X
- L. Mirkova, N. Petkova, I. Popova, St. Rashkov, The effect of some surface active additives upon the quality of cathodic copper deposits during the electro-refining process, *Hydrometallurgy* 36 (2) (1994) 201-213. ISSN: 0304386X
711. T. He, G. Yi, F. Cai, W. Peng, X. Yang, Effects of RE on the microstructure and mechanical properties of electrodeposited copper foil, *Advanced Materials Research* 150-151 (2011) 68-71. ISSN: 10226680
- L. Mirkova, M. Monev, I. Krastev, S. Rashkov, A rotating disc electrode study of zinc electrodeposition from alkaline zinc solutions, *Trans. Inst. Met. Finish.* 73 (1995) 107. ISSN: 0020-2967
712. J. L. Ortiz-Aparicio, Y. Meas, G. Trejo, R. Ortega and T. W. Chapman, et al., Effect of aromatic aldehydes on the electrodeposition of ZnCo alloy from cyanide-free alkaline-gluconate electrolytes, *J. Appl. Electrochem.*, 41 (6) (2011) 669-679. ISSN: 0021-891X
- S. Nikolova, T. Dobrev, M. Monev, Determination of trivalent chromium in chromium plating electrolytes, *Metal Finishing* 93 (5) (1995) 12-18. ISSN: 0026-0576
713. V. Persits, Applying the photometric method to determine presence of trivalent chromium in hex chrome solutions, *Metal Finishing* 109 (1-2) (2011) 26-28. ISSN: 0026-0576.
- Krastev, I., Koper, M.T.M., Pattern formation during the electrodeposition of a silver-antimony alloy, *Physica A: Statistical Mechanics and its Applications*, 213 (1-2) (1995) 199-208. ISSN 0378-4371
714. Kido, H., Fujita, K., Osaki, K., Sakurai, T., Inoue, A., Spiral pattern formation on bulk metallic glass by electropolishing, *Chemistry Letters*, 40 (2) (2011) 191-193. ISSN 0366-7022
9. Yang, J., Wang, S., Wang, W., Lu, X., Xie, J., Gao, Q., Spatio-temporal patterns in electrochemistry, *Chemistry Bulletin / Huaxue Tongbao*, 74 (4) (2011) 298-304. ISSN 0441-3776
715. Zhao, Y., Wang, S., Varela, H., Gao, Q., Hu, X., Yang, J., Epstein, I.R., Spatiotemporal pattern formation in the oscillatory electro-oxidation of sulfide on a platinum disk, *JPhys. Chem. C*, 115 (26) (2011) 12965-12971. ISSN 1932-7447
- T. Dobrev, S. Rashkov, Processes during the electrorefining and electrowinning of lead, *Hydrometallurgy* 40 (3) (1996) 277-291. ISSN-0304-386X
716. Y.-Y. Gu, Q.-H. Zhou, T.-Z. Yang, Lead electrodeposition from alkaline solutions containing xylitol, *Trans. Nonferrous Metals Society of China (English Edition)* 21 (2011) 1407-1413. ISSN: 1003-6326
- Petrova, M., Noncheva, Z., Dobrev, Ts., Rashkov, St., Kounchev, N., Petrov, D., Vlaev, St., Mihnev, V., Zarev, S., Georgieva, L., Buttinelli, D., Investigation of the processes of obtaining plastic treatment and electrochemical behaviour of lead alloys in their capacity as anodes during the electro-extraction of zinc I. Behaviour of Pb-Ag, Pb-Ca and Pb-Ag-Ca alloys, *Hydrometallurgy*, 40 (3) (1996) 293-318. ISSN-0304-386X
717. Zhang, Q.-B., Hua, Y.-X., Effect of the ionic liquid additive-[BMIM] HSO₄ on the kinetics of oxygen evolution during zinc electrowinning, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, 27 (1) (2011) 149-155. ISSN-10006818
- Stefanov Y., Ivanov I., Rashkov S., Electro-extraction of zinc from sulphate electrolytes containing antimony and hydroxyethylated-butylene-2-diol-1,4. Part 1: Deposition on an aluminium cathode containing iron impurities, *Hydrometallurgy*, 44 (1-2) (1997) 71-81. ISSN: 0304-386X.
718. Lins, V.F.C., Castro, M.M.R., Araújo, C.R., Oliveira, D.B., Effect of nickel and magnesium on zinc electrowinning using sulfate solutions, *Braz. J. Chem. Eng.*, 28 (3) (2011) 475-482. ISSN: 0104-6632.
- M. Monev, L. Mirkova, I. Krastev et al, Effect of brighteners on hydrogen evolution during zinc electroplating from zincate electrolytes, *J. Appl. Electrochem.* 28 (1998) 1107. ISSN: 0021-891X
719. J. L. Ortiz-Aparicio, Y. Meas, G. Trejo, R. Ortega and T. W. Chapman, et al., Effect of aromatic aldehydes on the electrodeposition of ZnCo alloy from cyanide-free alkaline-gluconate electrolytes, *J. Appl. Electrochem.*, 41 (6) (2011) 669-679. ISSN: 0021-891X

- Kirilova I., Ivanov I., Rashkov St., Anodic behaviour of composition modulated Zn-Co multilayers electrodeposited from single and dual baths, *J. Appl. Electrochem.*, 28 (12) (1998) 1359. ISSN: 0021-891X.
720. Yogesha, S., Chitharanjan Hegde, A., Optimization of deposition conditions for development of high corrosion resistant Zn-Fe multilayer coatings, *Journal of Materials Processing Technology*, 211 (8) (2011) 1409-1415. ISSN: 0924-0136.
721. Yao, C.-Z., Ma, H.-X., Zhang, X.-S., Meng, L.-X., Zhao, L.-P., Tai, L., Wang, Y.-C., Gong, Q.-J., Tong, Y.-X., Electrochemical preparation and magnetic properties of submicron Co_xPb_{1-x} dendrites, *J. Solid State Electrochem.*, 15 (6) (2011) 1193-1199. ISSN: 1432-8488.
722. Venkatakrisna, K., Hegde, A.C., Composition modulated multilayer Zn-Fe alloy coatings on mild steel for better corrosion resistance, *Materials and Manufacturing Processes*, 26 (1) (2011) 29-36. ISSN: 1042-6914.
- Kirilova I., Ivanov I., Rashkov St., Anodic behaviour of one and two-layer coatings of Zn and Co electrodeposited from single and dual baths, *J. Appl. Electrochem.*, 28 (6) (1998) 637. ISSN: 0021-891X.
723. MacIej, A., Michalska, J., Simka, W., Nawrat, G., Piotrowski, J., Effect of temperature and pH of ammonium galvanic bath on the properties of Zn-Co alloy coatings, *IOP Conference Series: Materials Science and Engineering*, 22 (1) art. no. 012006 (2011). ISSN: 0921-5093.
- T. Dobrev, C. Cachet, R. Wiart, Influence of Co²⁺ ions on cathode behaviour during zinc electrowinning, *J. Appl. Electrochem.* 28 (11) (1998) 1195-1203. ISSN: 0021-891X
724. N.K. Amin, E.-S.Z. El-Ashtoukhy, Kinetic study of copper cementation onto zinc using a rotating packed bed cylindrical reactor, *Canadian Journal of Chemical Engineering* 89 (3) (2011) 609-616. ISSN: 0008-4034
- Petrova, M., Stefanov, Y., Noncheva, Z., Dobrev, Ts., Rashkov, St., Electrochemical behaviour of lead alloys as anodes in zinc electrowinning, *British Corrosion Journal*, 34 (3) (1999) 198-200. ISSN-0007-0599
725. Jiang, L.-X., Lü, X.-J., Li, Y., Peng, H.-J., Lai, Y.-Q., Li, J., Liu, Y.-X., Anti-sandwich structure lead-based composite porous anode for zinc electrowinning, *Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology)*, 42 (4) (2011) 871-875. ISSN-16727207
726. Zhang, Q.-B., Hua, Y.-X., Effect of the ionic liquid additive-[BMIM] HSO₄ on the kinetics of oxygen evolution during zinc electrowinning, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, 27 (1) (2011) 149-155. ISSN-10006818
- Rashkov, S., Dobrev, T., Noncheva, Z., Stefanov, Y., Rashkova, B., Petrova, M., Lead-cobalt anodes for electrowinning of zinc from sulphate electrolytes, *Hydrometallurgy*, 52 (3) (1999) 223-230. ISSN-0304-386X
727. Jiang, L.-X., Lü, X.-J., Li, Y., Peng, H.-J., Lai, Y.-Q., Li, J., Liu, Y.-X., Anti-sandwich structure lead-based composite porous anode for zinc electrowinning, *Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology)*, 42 (4) (2011) 871-875. ISSN-16727207
728. Zhang, Q.-B., Hua, Y.-X., Effect of the ionic liquid additive-[BMIM] HSO₄ on the kinetics of oxygen evolution during zinc electrowinning, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, 27 (1) (2011) 149-155. ISSN-10006818
- Kirilova I., Ivanov I., Corrosion behaviour of Zn-Co compositionally modulated multilayers electrodeposited from single and dual baths, *J. Appl. Electrochem.*, 29 (9) (1999) 113. ISSN: 0021-891X.
729. Yogesha, S., Chitharanjan Hegde, A., Optimization of deposition conditions for development of high corrosion resistant Zn-Fe multilayer coatings, *Journal of Materials Processing Technology*, 211 (8) (2011) 1409-1415. ISSN: 0924-0136.
730. Karahan, I.H., Çetinkara, H.A., Study of effect of boric acid on Zn-Co alloy electrodeposition from acid baths and on composition, morphology and structure of deposit, *Transactions of the Institute of Metal Finishing*, 89 (2) (2011) 99-103. ISSN 0020-2967.
731. Rahsepar, M., Bahrololoom, M.E., Corrosion resistance of Ni/Zn-Fe/Zn and Ni/Zn/Zn-Fe compositionally modulated multilayer coatings, *Corrosion Engineering Science and Technology*, 46 (1) (2011) 70-75. ISSN: 1478-422X.

- Ivanov, I., Stefanov, Y., Noncheva, Z., Petrova, M., Dobrev, Ts., Mirkova, L., Vermeersch, R., Demaerel, J.-P., Insoluble anodes used in hydrometallurgy Part I. Corrosion resistance of lead and lead alloy anodes, *Hydrometallurgy*, 57 (2) (2000) 109-124. ISSN-0304-386X
732. Li, Y., Jiang, L.X., Lv, X.J., Lai, Y.Q., Zhang, H.L., Li, J., Liu, Y.X., Oxygen evolution and corrosion behaviors of co-deposited Pb/Pb-MnO₂ composite anode for electrowinning of nonferrous metals, *Hydrometallurgy*, 109 (3-4) (2011) 252-257. ISSN-0304386X
733. Cifuentes, L., Montes, A., Crisóstomo, G., Corrosion behaviour and catalytic effectiveness of Pb-Ca-Sn, RuO₂-IrO₂/Ti and IrO₂-Ta₂O₅/Ti anodes for copper electrowinning, *Corrosion Engineering Science and Technology*, 46 (6) (2011) 737-744. ISSN-1478422X
734. Jiang, L.-X., Lü, X.-J., Li, Y., Peng, H.-J., Lai, Y.-Q., Li, J., Liu, Y.-X., Anti-sandwich structure lead-based composite porous anode for zinc electrowinning, *Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology)*, 42 (4) (2011) 871-875. ISSN-16727207
735. Zhang, Q.-B., Hua, Y.-X., Effect of the ionic liquid additive-[BMIM]HSO₄ on the kinetics of oxygen evolution during zinc electrowinning, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, 27 (1) (2011) 149-155. ISSN-10006818
- Ivanov, I., Stefanov, Y., Noncheva, Z., Petrova, M., Dobrev, Ts., Mirkova, L., Vermeersch, R., Demaerel, J.-P., Insoluble anodes used in hydrometallurgy Part II. Anodic behaviour of lead and lead-alloy anodes, *Hydrometallurgy*, 57 (2) (2000) 125-139. ISSN-0304-386X
736. Cifuentes, L., Montes, A., Crisóstomo, G., Corrosion behaviour and catalytic effectiveness of Pb-Ca-Sn, RuO₂-IrO₂/Ti and IrO₂-Ta₂O₅/Ti anodes for copper electrowinning, *Corrosion Engineering Science and Technology*, 46 (6) (2011) 737-744. ISSN-1478422X
- Petrova, M., Petrov, C., Schmidt, C., Stromlos abgeschiedene nickeldispersionsschichten auf kunststoffen - Teil 1: Mikroskalige dispersoide, *Galvanotechnik*, 91 (5) (2000) 1262-1270. ISSN- 0016-4232
737. Hou, J.Y., Yang, D., The activate processe of Ni-P electroless plating on the surface of SiC particles, *Advanced Materials Research*, 239-242 (2011) 2859-2862. ISSN-10226680
- Nakabayashi, S., Inokuma, K., Nakao, A., Krastev, I., Colliding spiral waves propagating on the electrode, *Chem. Lett.*, (2000) 88. ISSN 0366-7022.
738. Kido, H., Fujita, K., Osaki, K., Sakurai, T., Inoue, A. Spiral pattern formation on bulk metallic glass by electropolishing, *Chemistry Letters*, 40 (2) (2011) 191-193. ISSN 0366-7022
- M. Monev, Effect of the the pH value of the hydrogenation solution upon the phase transformation of nickel into nickel hydride, *Electrochim. Acta*, 46 (15) (2001) 2373-2378. ISSN: 0013-4686
739. K.S. Napolskii, I.V. Roslyakov, A.A. Eliseev, D.I. Petukhov, A.V. Lukashin, S.-F. Chen, C.-P. Liu, G.A. Tsirlina, Tuning the microstructure and functional properties of metal nanowire arrays via deposition potential, *Electrochim. Acta*, 56 (5) (2011) 2378-2384. ISSN: 0013-4686.
- L. Mirkova, G. Maurin, I. Krastev, Chr. Tsvetkova, Hydrogen evolution and permeation into steel during zinc electroplating; effect of organic additives, *J. Appl. Electrochem.* 31 (6) (2001) 647-654. ISSN: 0021891X
740. P.K. Leung, C. Ponce-De-León, C.T.J. Low, F.C. Walsh, Zinc deposition and dissolution in methanesulfonic acid onto a carbon composite electrode as the negative electrode reactions in a hybrid redox flow battery, *Electrochimica Acta* 56 (18) (2011) 6536-6546. ISSN: 00134686
741. L.E. Morn, A. Méndez, J.C. Ballesteros, R. Antao-Lpez, G. Orozco, Y. Meas, R. Ortega-Borges, G. Trejo, Zn electrodeposition from an acidic chloride bath containing polyethyleneglycol (Mw 200) and benzylideneacetone as additives, *J. Electrochem. Soc.* 158 (7) (2011) D435-D444. ISSN: 00134651
742. M.S. Karavasteva, The effect of polyethylene glycols on zinc dissolution at 50°C in 0.5 M H₂SO₄ containing Co, Sb and Ge, *Hydrometallurgy* 106 (1-2) (2011) 1-4. ISSN: 0304386X
- A. Hrussanova, L. Mirkova, Ts. Dobrev, Anodic behaviour of the Pb-Co₃O₄ composite coating in copper electrowinning, *Hydrometallurgy* 60 (2001) 199-213. ISSN 0304-386X.
743. Y. Li, L.X. Jiang, X.J Lv, Y.Q. Lai, H.L. Zhang, J. Li, Y.X. Liu, Oxygen evolution and corrosion behaviors of co-deposited Pb/Pb-MnO₂ composite anode for electrowinning of nonferrous metals, *Hydrometallurgy* 109 (3-4) (2011) 252-257. ISSN 0304-386X

- A. Hrussanova, L. Mirkova, Ts. Dobrev, Electrochemical properties of Pb-Sb, Pb-Ca-Sn and Pb-Co₃O₄ anodes in copper electrowinning, *J. Appl. Electrochem.* 32 (2002) 505-512. ISSN 0021-891X.
744. N. Tshimwanga, K. Maweja, K. Tshula, Efficacy of polyacrylamide and protein flocculants in preventing anode depassivation induced Pb-contamination of copper electrowinning cathodes, *Hydrometallurgy* 105 (3-4) (2011) 240-245. ISSN 0304-386X
745. W. Peng, G. Yi, F. Cai, T. He, X. Yang, Experimental analysis of pinhole on electrolytic copper foil and its prevention, 2nd International Conference on Mechanic Automation and Control Engineering, (2011) MACE 2011 - Proceedings, art. no. 5986913, 279-282. ISBN 978-142449439-2
- Stefanov Y., Ivanov I., The influence of nickel ions and triethylbenzylammonium chloride on the electrowinning of zinc from sulphate electrolytes containing manganese ions *Hydrometallurgy*, 64 (3) (2002) 193. ISSN: 0304-386X.
746. Liu, C., Shen, Q., Xiong, M., Shan, Y., He, S., He, Y., Inhibition behavior of a mixed additive upon zinc electrowinning from sulphate solutions containing germanium, *Advanced Materials Research*, 291-294 (2011) 1479-1483. ISSN: 1022-6680.
747. Lins, V.F.C., Castro, M.M.R., Araújo, C.R., Oliveira, D.B., Effect of nickel and magnesium on zinc electrowinning using sulfate solutions, *Brazilian Journal of Chemical Engineering*, 28 (3) (2011) 475-482. ISSN: 0104-6632.
748. Zhang, Q., Hua, Y., Effect of ionic liquid additive [BMIM]HSO₄ on zinc electrodeposition from impurity-containing sulfate electrolyte. Part I: Current efficiency, surface morphology, and crystal orientations, *J. Appl. Electrochem.*, 41 (4) (2011) 481-490. ISSN: 0021-891X
749. Chen, Q., Li, L., Bai, L., Hu, H., Li, J., Liang, Q., Ling, J., Synergistic extraction of zinc from ammoniacal ammonia sulfate solution by a mixture of a sterically hindered beta-diketone and tri-n-octylphosphine oxide (TOPO), *Hydrometallurgy*, 105 (3-4) (2011) 201-206. ISSN: 0304-386X.
- Ivanov I., Stefanov Y., Electroextraction of zinc from sulphate electrolytes containing antimony and hydroxyethylated-butine-2-diol-1,4 - Part 2: Deposition on a specpure aluminium cathode (2002) *Hydrometallurgy*, 64 (2) (2002) 111. ISSN: 0304-386X.
750. Liu, C., Shen, Q., Xiong, M., Shan, Y., He, S., He, Y., Inhibition behavior of a mixed additive upon zinc electrowinning from sulphate solutions containing germanium, *Advanced Materials Research*, 291-294 (2011) 1479-1483. ISSN: 1022-6680.
751. Lins, V.F.C., Castro, M.M.R., Araújo, C.R., Oliveira, D.B., Effect of nickel and magnesium on zinc electrowinning using sulfate solutions, *Brazilian Journal of Chemical Engineering*, 28 (3) (2011) 475-482. ISSN: 0104-6632.
- Ivanov I., Valkova T., Kirilova I., Corrosion resistance of compositionally modulated Zn-Ni multilayers electrodeposited from dual baths, *J. Appl. Electrochem.*, 32 (1) (2002) 85. ISSN: 0021-891X.
752. Bhat, R.S., Udupa, K.R., Hegde, A.C., Corrosion stability of electrodeposited cyclic multilayer Zn-Ni alloy coatings, *Transactions of the Institute of Metal Finishing*, 89 (5) (2011) 268-274. ISSN 0020-2967.
753. Bhat, R.S., Hegde, A.C., Development of nano-structured cyclic multilayer Zn-Ni alloy coatings using triangular current pulses, *Surface Engineering and Applied Electrochemistry*, 47 (2) (2011) 112-119. ISSN: 1068-3755.
754. Subbaiah, Y., Kaje, V., Hegde, A.C., Development of anti-corrosive multi-layered coatings of zinc-nickel alloy, *Anti-Corrosion Methods and Materials*, 58 (2) (2011) 84-89. ISSN: 0003-5599.
755. Venkatakrisna, K., Hegde, A.C., Composition modulated multilayer Zn-Fe alloy coatings on mild steel for better corrosion resistance, *Materials and Manufacturing Processes*, 26 (1) (2011) 29-36. ISSN: 1042-6914.
756. Yogesh, S., Bhat, R.S., Venkatakrisna, K., Pavithra, G.P., Ullal, Y., Hegde, A.C. Development of nano-structured Zn-Ni multilayers and their corrosion behaviors, *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*. 41 (1) (2011) 65-71. ISSN: 1553-3174.
- Krastev, I., Valkova, T., Zielonka, A., Effect of electrolysis conditions on the deposition of silver-bismuth alloys, *J. Appl. Electrochem.*, 33 (12) (2003) 1199-1204. ISSN 0021-891X
757. Yang, J., Wang, S., Wang, W., Lu, X., Xie, J., Gao, Q., Spatio-temporal patterns in electrochemistry, *Chemistry Bulletin / Huaxue Tongbao*, 74 (4) (2011) 298-304. ISSN 0441-3776
- L. Mirkova, G. Maurin, M. Monev, Chr. Tsvetkova, Hydrogen coevolution and permeation in nickel electroplating, *J. Appl. Electrochem.*, 33 (1) (2003) 93-100. ISSN: 0021-891X

758. W. Chen, K. C. Chan, S.F. Guo, P. Yu, Plasticity improvement of an Fe-based bulk metallic glass by geometric confinement, *Materials Letters*, 65 (8) (2011) 1172-1175. ISSN: 0167-577X
759. Li, X., Zhu, Z., Zhu, D., Zhang, Y., Orbital-abrasion-assisted electroforming of non-rotating parts, *Journal Wuhan University of Technology, Materials Science Edition*, 26 (5) (2011) 827-831. ISSN: 1000-2413
- Ivanov I., Kirilova I., Corrosion resistance of compositionally modulated multilayered Zn-Ni alloys deposited from a single bath, *J. Appl. Electrochem.*, 33 (3-4) (2003) 239. ISSN: 0021-891X.
760. Bhat, R.S., Udupa, K.R., Hegde, A.C., Corrosion stability of electrodeposited cyclic multilayer Zn-Ni alloy coatings, *Trans. Inst. Metal Finish.*, 89 (5) (2011) 268-274, ISSN 0020-2967.
761. Basavanna, S., Arthoba Naik, Y., Study of the effect of new brightener on Zn-Ni alloy electrodeposition from acid sulphate bath, *J. Appl. Electrochem.*, 41 (5) (2011) 535-541. ISSN: 0021-891X.
762. Bhat, R.S., Hegde, A.C., Development of nano-structured cyclic multilayer Zn-Ni alloy coatings using triangular current pulses, *Surf. Eng. and Appl. Electrochem.*, 47 (2) (2011) 112-119. ISSN: 1068-3755.
763. Subbaiah, Y., Kaje, V., Hegde, A.C., Development of anti-corrosive multi-layered coatings of zinc-nickel alloy, *Anti-Corrosion Methods and Materials*, 58 (2) (2011) 84-89. ISSN: 0003-5599.
764. Conde, A., Arenas, M.A., de Damborenea, J.J., Electrodeposition of Zn-Ni coatings as Cd replacement for corrosion protection of high strength steel, *Corrosion Science*, 53 (4) (2011) 1489-1497. ISSN: 0010-938X.
765. Yogesha, S., Bhat, R.S., Venkatakrishna, K., Pavithra, G.P., Ullal, Y., Hegde, A.C. Development of nano-structured Zn-Ni multilayers and their corrosion behaviors. *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*, 41 (1) (2011) 65-71. ISSN: 1553-3174.
- 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. ISSN: 0304-386X.
766. Yu, X., Li, Y., Xie, G., Ying, L., Kunwang, J., Shi, Z., Study on behavior of impurity antimony in zinc electrowinning, *Advanced Materials Research*, 287-290 (2011) 2957-2960. ISSN: 1022-6680.
767. Liu, C., Shen, Q., Xiong, M., Shan, Y., He, S., He, Y., Inhibition behavior of a mixed additive upon zinc electrowinning from sulphate solutions containing germanium, *Advanced Materials Research*, 291-294 (2011) 1479-1483. ISSN: 1022-6680.
768. Ma, H., Zhu, P., Zhou, S., Xu, J., Huang, W., Yang, H., Guo, J., Chen, M., Preliminary research on Pb-Sn-Al laminated composite electrode materials applied to zinc electrodeposition, *Advanced Materials Research*, 150-151 (2011) 303-308. ISSN: 1022-6680.
- A. Hrussanova, L. Mirkova., T. Dobrev, Influence of additives on the corrosion rate and oxygen overpotential of Pb-Co₃O₄, Pb-Ca-Sn and Pb-Sb anodes for copper electrowinning: Part II, *Hydrometallurgy*, 72 (2004) 215-224. ISSN 0304-386X.
769. N. Tshimwanga, K. Maweja, K. Tshula, Efficacy of polyacrylamide and protein flocculants in preventing anode depassivation induced Pb-contamination of copper electrowinning cathodes, *Hydrometallurgy* 105 (3-4) (2011) 240-245. ISSN 0304-386X
770. L. Cifuentes, A. Montes, G. Crisóstomo, Corrosion behaviour and catalytic effectiveness of Pb-Ca-Sn, RuO₂-IrO₂/Ti and IrO₂-Ta₂O₅/Ti anodes for copper electrowinning, *Corrosion Engineering Science and Technology*, 46 (6) (2011) 737-744. ISSN 1478-422X
- A. Hrussanova, L. Mirkova, Ts. Dobrev, S.Vasilev, Influence of temperature and current density on oxygen overpotential and corrosion rate of Pb-Co₃O₄, Pb-Ca-Sn, and Pb-Sb anodes for copper electrowinning: Part I, *Hydrometallurgy* 72 (3-4) (2004) 205-213. ISSN 0304-386X
771. N. Tshimwanga, K. Maweja, K. Tshula, Efficacy of polyacrylamide and protein flocculants in preventing anode depassivation induced Pb-contamination of copper electrowinning cathodes, *Hydrometallurgy* 105 (3-4) (2011) 240-245. ISSN 0304-386X
772. L. Cifuentes, A. Montes, G. Crisóstomo, Corrosion behaviour and catalytic effectiveness of Pb-Ca-Sn, RuO₂-IrO₂/Ti and IrO₂-Ta₂O₅/Ti anodes for copper electrowinning, *Corrosion Engineering Science and Technology*, 46 (6) (2011) 737-744. ISSN 1478-422X
- Y. Stefanov, Ts. Dobrev, Developing and studying the properties of Pb-TiO₂ alloy coated lead composite anodes for zinc electrowinning, *Trans. Inst. Metal Finish.* 83 (6) (2005) 291. ISSN: 0020-2967

773. L.-X. Jiang, X.-J. Lü, Y. Li, H.-J. Peng, Y.-Q. Lai, J. Li, Y.-X. Liu, Anti-sandwich structure lead-based composite porous anode for zinc electrowinning, *Zhongnan Daxue Xuebao (Ziran Kexue Ban) / Journal of Central South University (Science and Technology)* 42 (4) (2011) 871. ISSN: 1672-7207
774. Y. Li, L.X. Jiang, X.J. Lv, Y.Q. Lai, H.L. Zhang, J. Li, Y.X. Liu, Oxygen evolution and corrosion behaviors of co-deposited Pb/Pb-MnO₂ composite anode for electrowinning of nonferrous metals, *Hydrometallurgy* 109 (3-4) (2011) 252. ISSN: 0304-386X
- Y. Stefanov, Ts. Dobrev, Potentiodynamic and electronmicroscopy investigations of lead-cobalt alloy coated lead composite anodes for zinc electrowinning, *Trans. Inst. Metal Finish.* 83 (6) (2005) 296. ISSN: 0020-2967
775. L.-X. Jiang, X.-J. Lü, Y. Li, H.-J. Peng, Y.-Q. Lai, J. Li, Y.-X. Liu, Anti-sandwich structure lead-based composite porous anode for zinc electrowinning, *Zhongnan Daxue Xuebao (Ziran Kexue Ban) / Journal of Central South University (Science and Technology)*, 42 (4) (2011) 871. ISSN: 1672-7207
- S. B. Valdez, R. K. Zlatev, W. M. Schorr, G. N. Rosas, T. Dobrev, M. Monev, I. Krastev, Rapid method for corrosion protection determination of VCI films, *Anti-Corros Methods Mater.* 53 (3) (2006) 362. ISSN:0003-5599
776. U. Rammelt, S. Koehler, G. Reinhard, Efficiency of vapor phase corrosion inhibitors for ferrous metals in neutral and alkaline solutions, *Corrosion* 67 (4) (2011) 0450011-0450017. ISSN: 0010-938X
- C. Gabrielli, G. Maurin, L. Mirkova, H. Perrot, Transfer function analysis of hydrogen permeation through a metallic membrane in a Devanathan cell. Part II: Experimental investigation on iron membrane, *J. Electroanal. Chem.* 590 (1) (2006) 15-25. ISSN: 00220728
777. S. Frappart, A. Oudriss, X. Feaugas, J. Creus, J. Bouhattate, F. Thébault, L. Delattre, H. Marchebois, Hydrogen trapping in martensitic steel investigated using electrochemical permeation and thermal desorption spectroscopy, *Scripta Materialia* 65 (10) (2011) 859-862. ISSN: 13596462
- N. Amokrane, C. Gabrielli, G. Maurin, L. Mirkova, Effect of organic additives on hydrogen permeation into an iron membrane studied by frequency analysis techniques, *Electrochim. Acta* 53 (4) (2007) 1962-1971. ISSN: 00134686
778. D. Trinh, M. Keddad, X.R. Novoa, V. Vivier, Alternating current measurements in scanning electrochemical microscopy, part 2: Detection of adsorbates, *Chem. Phys. Chem.* 12 (11) (2011) 2177-2183. ISSN: 14394235
- T. 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. ISSN: 0021-891X
779. O. Ergeneman, K.M. Sivaraman, S. Pané, E. Pellicer, A. Teleki, A.M. Hirt, M.D. Baró, B.J. Nelson, Morphology, structure and magnetic properties of cobalt-nickel films obtained from acidic electrolytes containing glycine, *Electrochim. Acta*, 56 (3) (2011) 1399-1408. ISSN: 0013-4686
- Ts. Dobrev, I. Valchanova, Y. Stefanov, S. Magaeva, Investigations of new anodic materials for zinc electrowinning, *Trans. Inst. Metal Finish.* 87 (3) (2009) 136. ISSN: 0020-2967.
780. Y. Li, L.X. Jiang, X.J. Lv, Y.Q. Lai, H.L. Zhang, J. Li, Y.X. Liu, Oxygen evolution and corrosion behaviors of co-deposited Pb/Pb-MnO₂ composite anode for electrowinning of nonferrous metals, *Hydrometallurgy* 109 (3-4) (2011) 252. ISSN: 0304-386X
781. R. Mantcheva, Kinetics of anode processes in 'Chromispel-C' electrolyte for chromium plating, *Trans. Inst. Metal Finish.* 89 (1) (2011) 51. ISSN: 0020-2967.
- A. Hrussanova, I. Krastev, Electrodeposition of silver-tin alloys from pyrophosphate-cyanide electrolytes, *J. Appl. Electrochem.* 39 (7) (2009) 989-994. ISSN 0021-891X
782. R. Freudenberger, The electrodeposition of precious metals for technical applications | [Die elektrolytische Abscheidung von Edelmetallen für technische Anwendungen], *Galvanotechnik* 4 (2011) 765-774. ISSN 0016-4232
783. V. Venkatasamy, S. Riemer, I. Tabakovic, Electrodeposition of eutectic Sn_{96.5}Ag_{3.5} films from iodide-pyrophosphate solution, *Electrochim. Acta*, 56 (13) (2011) 4834-4840. ISSN 0013-4686
784. Y.-D. Tsai, C.-C. Hu, Composition control of the eutectic Sn-based alloys: Sn-Ag, Sn-Cu, Sn-Ag-Cu, from simple plating baths, *J. Electrochem. Soc.* 158 (8) (2011) D527-D534. ISSN 0013-4651

- Krastev, I., Dobrovolska, Ts., Kowalik, R., Zabinski, P., Zielonka, A., Properties of silver-indium alloys electrodeposited from cyanide electrolytes, *Electrochim. Acta*, 54 (9) (2009) 2515-2521. ISSN 0013-4686
785. Freudenberger, R., The electrodeposition of precious metals for technical applications [Die elektrolytische Abscheidung von Edelmetallen für technische Anwendungen], *Galvanotechnik*, 102 (4) (2011) 765-774. ISSN 0016-4232
- Dobrovolska Ts., I. Krastev, A. Zielonka, Formazione di strutture organizzate nelle leghe di argento: argento-cadmio, *Galvanotechnica e nuova finiture AIFM*, 19/60 (2009) 287-289.
786. T.W.Jelinek, Fortschritte in der Galvanotechnik, *Galvanotechnik*, 102 (1) (2011) 26-47. ISSN 0016-4232
- T. Boiadjieva, M. Monev, A. Tomandl, H. Kronberger, G. Fafilek, Electrochemical studies on Zn deposition and dissolution in sulphate electrolyte, *J. Solid State Electrochem.*, 13 (5) (2009) 671-677. ISSN: 1432-8488
787. M. García-Gabaldón, J. Carrillo-Abad, E. Ortega-Navarro, V. Pérez-Herranz, Electrochemical study of a simulated spent pickling solution, *Intern. J. Electrochem. Sci.* 6 (2) (2011) 506-519. ISSN 1452-3981
788. R. C.M. Salles, G. C.G. de Oliveira, S. L. Díaz, O. E. Barcia, O. R. Mattos, Electrodeposition of Zn in acid sulphate solutions: pH effects, *Electrochim. Acta* 56 (23) (2011) 7931-7939. ISSN: 0013-4686.
789. J. Carrillo-Abad, M. García-Gabaldón, E. Ortega, V. Pérez-Herranz, Electrochemical recovery of zinc from the spent pickling baths coming from the hot dip galvanizing industry. Potentiostatic operation, *Separation and Purification Technology*, 81 (2) (2011) 200-207. ISSN: 1383-5866
- 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.
790. L. E. Morn, A. Méndez, J. C. Ballesteros, R. Antao-Lpez, G. Orozco, Y. Meas, R. Ortega-Borges, G. Trejo, Zn electrodeposition from an acidic chloride bath containing polyethyleneglycol (Mw 200) and benzylideneacetone as additives, *J. Electrochem. Soc.* 158 (7) (2011) D435-D444. ISSN 0013-4651.
- S. Armyanov G. Sotirova, "Residual stress diagrams for electrodeposited metal coatings II: Residual stress diagrams during the electrodeposition and anodic dissolution of cobalt and nickel coatings" *Surf. Technol.*, 17, 329 (1982).
791. Y. D. Gamburg, G. Zangari, *Theory and Practice of Metal Electrodeposition*, 378 p., Springer (2011). ISBN 978-1-4419-9668-8
- S. Armyanov, G. Sotirova, "Residual stress in metal coatings" *Surf. Technol.*, 20, 175 (1983).
792. Y. D. Gamburg, G. Zangari, *Theory and Practice of Metal Electrodeposition*, 378 p., Springer (2011). ISBN 978-1-4419-9668-8
- S. Armyanov and G. Sotirova, "Diffusion-elastic phenomena in nickel and cobalt electrodeposits plated on to strip cathodes" *Surf. Coat. Technol.*, 34, (1988). 441 ISSN: 0257-8972
793. E. Rouya, "Morphology, stresses, and surface reactivity of nanoporous gold synthesized from nanostructured precursor alloys", Ph.D., University of Virginia, 2011, 236 pages; AAT 3442324
794. I. Tabakovic, S. Riemer, N. Jayaraju, V. Venkatasamy, J. Gong, "Relationship of Fe²⁺ concentration in solution and current efficiency in electrodeposition of CoFe films", *Electrochim. Acta*, 58, 25 (2011) ISSN: 0013-4686
- S. A. Armyanov, G. S. Sotirova, "Electroless Co-Ni-P Thin Films for Magnetic Recording" *J. Electrochem. Soc.*, 136, 1575 (1989). ISSN (Print): 0013-4651, ISSN (Online): 1945-7111
795. W.L. Liu, S.H. Hsieh, W.J. Chen, "Growth kinetics of electroless Ni_xCo_{1-x} deposition" *Thin Solid Films*, 519, 4749 (2011). ISSN: 0040-6090
796. A. Kumar, A. Singh, M. Kumar, D. Kumar and S. Barthwal, "Study on thermal stability of electroless deposited Ni-Co-P alloy thin film" *J. Mater. Sci.: Materials in Electronics*, 22, 1495 (2011). ISSN (Print): 0957-4522, ISSN (Online): 1573-482X
- G. Sotirova, S. Sarnev, and S. Armyanov, "Evolution of the included hydrogen, internal stress, microhardness and microstructure of electrodeposited cobalt" *Electrochim. Acta*, 34, 1237 (1989). ISSN: 0013-4686

797. D. K. Singh, V. B. Singh, "Electrodeposition of Ni-SiC Composite from a Non-Aqueous Bath" *J. Electrochem. Soc.*, 158, D114 (2011). ISSN: 0013-4651
798. I. Tabakovic, S. Riemer, N. Jayaraju, V. Venkatasamy, J. Gong, "Relationship of Fe²⁺ concentration in solution and current efficiency in electrodeposition of CoFe films", *Electrochim. Acta*, 58, 25 (2011) ISSN: 0013-4686
- G. S. Sotirova-Chakarova, S. A. Armyanov, "The Internal Stress in Ni, NiFe, CoFe, and CoNi Layers Measured by the Bent Strip Method" *J. Electrochem. Soc.*, 137, 3551 (1990). ISSN (Print): 0013-4651, ISSN (Online): 1945-7111
799. Y.-W. Li, X.-X. Huang, Z.-L. Yang J.-H. Yao, Y.-X. Li, "Internal Stress of Nickel Coating and Its Measuring Methods" *Electroplating & Pollution Control*, 31 (1) (2011). ISSN: 1000-4742
800. J. D. Giallonardo, U. Erb, K. T. Aust, G. Palumbo, "The influence of grain size and texture on the Young's modulus of nanocrystalline nickel and nickel-iron alloys", *Philosophical Magazine*, 91, 4594-4605 (2011). Print ISSN: 1478-6435
- S. Armyanov, G. Sotirova-Chakarova, "Hydrogen Desorption and Internal Stress in Nickel Coatings Obtained by Periodic Electrodeposition", *J. Electrochem. Soc.*, 139, 3454 (1992) ISSN 1945-7111.
801. T. Takemoto, N. Fukumuro, S. Yae, H. Matsuda, "Thermal Desorption Spectroscopic Study of Hydrogen in Electrodeposited Ni-P Films", *ECS Transactions*, 33 (21) 11 (2011) ISSN 1938-5862
- S. Armyanov, "Electroless Nickel – Phosphorus Deposition on Aluminum: Interface and Internal Stress" *Metal Finishing*, 90, 36 (1992). ISSN: 0026-0576
802. Jian-Hong Liu, "Effect of Electroless Ni-P/nano-CNT and Ni-P/nano-TiO₂ Composite Coatings on the Wear and Corrosion Characteristics of AA6061 Alloy", Ching Yun University, 2011.
- N. Krasteva, V. Fotty, S. Armyanov, "Thermal Stability of Ni-P and Ni-Cu-P Amorphous Alloys" *J. Electrochem. Soc.*, 141, 2864 (1994). ISSN (Print): 0013-4651, ISSN (Online): 1945-7111.
803. "Modern Electroplating", Fifth Edition, Editors Mordechai Schlesinger, Milan Paunovic, 736 pages Wiley ECS (2010) p. 505 ISBN 978-0-470-16778-6
804. Jian Chao Zhan, You Nan Gou, "Study on the Properties of Ni-Cu-P Plated Polyester Fabric" *Advanced Materials Research*, 239-242, 1014-1017 (2011). ISSN: 1022-6680
- S. Armyanov, O. Steenhaut, N. Krasteva, J. Georgieva, J.-L. Delplancke, R. Winand, and J. Vereecken, "Auger electron spectroscopy element profiles and interface with substrates of electroless deposited ternary alloys" *J. Electrochem. Soc.*, 143, 3692 (1996). ISSN (Print): 0013-4651, ISSN (Online): 1945-7111
805. Y.-M. Su, C.-C. Wu, F.-B. Wu, "Process Heating and Postannealing Effects on Microstructure and Hardness of the Sputtered Ni-P-Al Coatings" *J. Metallurgy*, 2011, Article ID 802093 (2011) ISSN (Print): 1687-9465, ISSN (Online): 1687-9473
806. X. R. Wang, H. Lu, Y. Zhang, X. Hu, J. Wu, "The Influence of Plating Temperature on the Properties of Electroless Ni-Cu-P Alloys on Aluminum" *Advanced Materials Research*, 189-193, 1096 (2011). ISSN: 1662-8985
- S. Armyanov, S. Vitkova, O. Blajiev, "Internal stress and magnetic properties of electrodeposited amorphous Fe-P alloys" *J. Appl. Electrochem.*, 27, 185 (1997) ISSN: 0021-891X
807. O. Ergeneman, K.M. Sivaraman, S. Pané, E. Pellicer, A. Teleki, A.M. Hirt, M.D. Baró, B.J. Nelson, "Morphology, structure and magnetic properties of cobalt-nickel films obtained from acidic electrolytes containing glycine" *Electrochim. Acta*, 56, 1399 (2011) ISSN: 0013-4686
808. C. A. C. Sequeira, D. M. F. Santos, P. S. D. Brito, "Electrocatalytic activity of simple and modified Fe-P electrodeposits for hydrogen evolution from alkaline media" *Energy*, 36, 847 (2011). ISSN: 0360-5442
- 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" *Electrochem. Solid-State Letters*, 2, 323 (1999). ISSN (Print): 1099-0062, ISSN (Online): 1944-8775
809. H. Liu, R.-X. Guo, Y. Zong, J.-S. Bian, S. Li, "Annealing crystallization and wear behavior of electroless deposited Ni-P and Ni-W-P coatings" *Cailiao Rechuli Xuebao/Trans. Mater. & Heat Treat.*, 32 (2) 139-145 (2011). ISSN 1009-6264

- S. Armyanov, "Crystallographic structure and magnetic properties of electrodeposited cobalt and cobalt alloys", *Electrochim. Acta*, 45, 3323 (2000). ISSN: 0013-4686
810. O. Ergeneman, K.M. Sivaraman, S. Pané, E. Pellicer, A. Teleki, A.M. Hirt, M.D. Baró, B.J. Nelson, "Morphology, structure and magnetic properties of cobalt–nickel films obtained from acidic electrolytes containing glycine" *Electrochim. Acta*, 56, 1399 (2011) ISSN: 0013-4686
811. S. Nineva, T. Dobrovolska, I. Krastev, *Bulg. Chem. Communic.*, 43, (1), 88 (2011). ISSN: 0861-9808
812. D. Iselt, U. Gaitzsch, S. Oswald, S. Fähler, L. Schultz, H. Schlörb, "Electrodeposition and characterization of Fe₈₀Ga₂₀ alloy films" *Electrochim. Acta*, 56, 5178 (2011). ISSN: 0013-4686
813. C. Lupi, A. Dell'Era, M. Pasquali, P. Imperatori, "Composition, morphology, structural aspects and electrochemical properties of Ni–Co alloy coatings" *Surf. Coat. Technol.*, 205, 5394 (2011). ISSN: 0257-8972
814. Z. Ghaferi, K. Raeissi, M.A. Golozar, H. Edris, "Characterization of nanocrystalline Co–W coatings on Cu substrate, electrodeposited from a citrate-ammonia bath" *Surf. Coat. Technol.*, 206, 497 (2011) ISSN: 0257-8972
815. E. Pellicer, S. Pané, K.M. Sivaraman, O. Ergeneman, S. Suriñach, M.D. Baró, B.J. Nelson, J. Sort, "Effects of the anion in glycine-containing electrolytes on the mechanical properties of electrodeposited Co–Ni films" *Mater. Chem. Phys.*, 130, 1380 (2011), ISSN: 0254-0584
816. J. Corredor, G. Jorge, C. Rojas, "Electrodeposition of Fe Films on Cu Substrates", *Acta Microscopica*, 20 (2) (2011) ISSN: 0798-4545
- 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" *J. Electrochem. Soc.*, 148, C266 (2001). ISSN (Print): 0013-4651, ISSN (Online): 1945-7111
817. S. F. Zhu, Y. C. Wu, X. M. Huang, "Preparation and Properties of Electroless Deposited Ni-Zn-P-TiO₂ Nano-composite Coating" *Asian Journal of Chemistry*, 23 (5) 2299-2302 (2011). ISSN (Print): 0970-7077, ISSN (Online): 0975-427X
818. Z. Shaofeng, W. Yucheng, H. Xinmin, "Preparation and properties of electroless deposited Ni-Zn-P-TiO₂ nano-composite coating" *Asian Journal of Chemistry*, 23 (5), 2299-2302 (2011) ISSN (Print): 0970-7077, ISSN (Online): 0975-427X
819. V. Soare, M. Burada, D. Mitrica, I. Constantin, F. Stoiciu, C. Cotrut, A.-M. Popescu, *Cercetari Metalurgice si de Noi Materiale*, 19 (2) 32-41 (2011) ISSN 1221-550
- E. Valova, S. Armyanov, 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" *J. Appl. Electrochem.*, 31, 1367 (2001). ISSN: 0021-891X
820. Z. Zheng, R. Wang, C. M. Wang, "Electroless plating of Co–Zn–P thin film onto nanodiamond cores" *Current Applied Physics*, 11, 227 (2011). ISSN: 1567-1739
821. A. Duhin, A. Inberg, N. Eliaz, E. Gileadi, "Electroless plating of rhenium–nickel alloys", *Electrochimica Acta*, 56, 9637 (2011) ISSN: 0013-4686
- J. Georgieva, S. Armyanov, E. Valova, Ts. Tsacheva, I. Poullos, S. Sotiropoulos, Photoelectrochemical behaviour of electrodeposited tungsten trioxide and electrosynthesised titanium dioxide single component and bilayer coatings on stainless steel substrates" *J. Electroanal. Chem.*, 585, 35 (2005). ISSN: 1572-6657
822. C. K. Halford, R. F. Boehm, "An on sun parametric study of solar hydrogen production using WO₃ photoanodes" *Experimental Thermal and Fluid Science*, 35 (1), 180-189 (2011) ISSN: 0894-1777
823. L. E. Fraga, M. V. B. Zanoni, "Nanoporous of W/WO₃ Thin Film Electrode Grown by Electrochemical Anodization Applied in the Photoelectrocatalytic Oxidation of the Basic Red 51 used in Hair Dye" *J. Brazilian Chem. Soc.*, 22 (4) 718 (2011). ISSN 0103-5053
824. M. Neumann-Spallart, "Photoelectrochemistry on a planar, interdigitated electrochemical cell", *Electrochim. Acta*, 56, 8752 (2011) ISSN: 0013-4686
- S. Armyanov, E. Valova, A. Franquet, J. Dille, J.-L. Delplancke, "Crystalline and Amorphous Electroless Co-W-P Coatings" *J. Electrochem. Soc.*, 152, C612–C619 (2005). ISSN (Print): 0013-4651, ISSN (Online): 1945-7111
825. A. Kumar, A. Singh, M. Kumar, D. Kumar and S. Barthwal, "Study on thermal stability of electroless deposited Ni-Co-P alloy thin film" *J. Mater. Sci.: Materials in Electronics*, 22, 1495 (2011). ISSN (Print): 0957-4522, ISSN (Online): 1573-482X

- D. Tatchev, A. Hoell, R. Kranold, S. Armyanov, "Size distribution and composition of magnetic precipitates in amorphous Ni–P alloy" *Physica B*, 369, 8 (2005). ISSN: 0921-4526
826. M. Calvo-Dahlborg, U. Dahlborg, J. M. Ruppert, "Influence of superheat before quench on the structure and stability of NiP metallic glasses studied by neutron scattering techniques" *J. Non-Crystall. Sol.*, 357, 798 (2011). ISSN: 0022-3093
- E. Valova, J. Dille, S. Armyanov, J. Georgieva, D. Tatchev, M. Marinov, J. L. Delplancke, O. Steenhaut and A. Hubin, "Interface between electroless amorphous Ni–Cu–P coatings and Al substrate" *Surf. Coat. Technol.*, 190, 336 (2005). ISSN: 0257-8972
827. X. R. Wang, H. Lu, Y. Zhang, X. Hu, J. Wu, "The Influence of Plating Temperature on the Properties of Electroless Ni-Cu-P Alloys on Aluminum" *Advanced Materials Research*, 189-193, 1096 (2011) ISSN: 1662-8985
- 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 Alloys", *J. Electrochem. Soc.*, 152, (11) C783-C788 (2005), ISSN: 1945-7111 online; ISSN: 0013-4651 print
828. Wanghe Kun, Liu He, He Yanfeng, WANG He-kun, LIU He, HE Yan-Feng, "Deposition Behavior of Tin during Electroless Plating of Ni-Sn-P Coating" *Materials Protection*, 44 (3) page:42-43,46,90 (2011) School of Chemical Engineering, Changchun University, Jilin, Changchun, 130 012
- Georgieva, S. Armyanov, E. Valova, I. Poullos, S. Sotiropoulos, "Preparation and photoelectrochemical characterisation of electrosynthesised titanium dioxide deposits on stainless steel substrates" *Electrochim. Acta*, 51, 2076 (2006). ISSN: 0013-4686
829. A. K. Seferlis, S. G. Neophytides, "Photoelectrocatalytic Electricity and/or H₂ Production from Alcohols: The Effect of TiO₂ Film Thickness" *J. Electrochem. Soc.*, 158, H183 (2011). ISSN (Print): 0013-4651, ISSN (Online): 1945-7111
830. S. C. Lucatero, "Electrodeposited Gold/Iron-Gold porous nanowires for enhanced catalytic activity and stability of reactions on Titania" by Ph.D., Northeastern University, 2011, 162 pages; AAT 3443822
- J. Georgieva, S. Armyanov, "Electroless deposition and some properties of Ni–Cu–P and Ni–Sn–P coatings" *J. Solid State Electr.*, 11, 869 (2007). ISSN (Print): 1432-8488, ISSN (Online): 1433-0768
831. Y. Lu, L. Xue, F. Li, "Adhesion enhancement between electroless nickel and polyester fabric by a palladium-free process" *Appl. Surf. Sci.*, 257, 3135 (2011) ISSN: 0169-4332
832. R. Guslitzer-Okner, D. Mandler, *Electrochemical Coating of Medical Implants in Modern Aspects of Electrochemistry*, 1, Volume 52, Applications of Electrochemistry and Nanotechnology in Biology and Medicine I, Pages 291-342 (2011)
- J. Georgieva, S. Armyanov, E. Valova, I. Poullos, S. Sotiropoulos, „Enhanced photocatalytic activity of electrosynthesised tungsten trioxide–titanium dioxide bi-layer coatings under ultraviolet and visible light illumination" *Electrochem. Commun.*, 9, 365 (2007). ISSN: 1388-2481
833. J. He, Q.Z. Cai, D. Zhu, Q. Luo, D.Q. Zhang, X.W. Li, X. Zhao, W. Sun, "In-situ preparation of WO₃/TiO₂ composite film with increased photo quantum efficiency on titanium substrate" *Current Applied Physics*, 11, 98 (2011). ISSN: 1567-1739
834. S. A. Khan Leghari, S. Sajjad, F. Chen, J. Zhang, "WO₃/TiO₂ composite with morphology change via hydrothermal template-free route as an efficient visible light photocatalyst" *Chemical Engineering Journal*, 166, 906 (2011) ISSN: 1385-8947
835. Mahmood Aliofkhaezrai, "Nanocoatings: Size Effect in Nanostructured Films", 225 pages, Springer (2011) p. 221. ISBN: 3642179657
836. J. He, Q. Luo, Q.Z. Cai, X.W. Li, D.Q. Zhang, "Microstructure and photocatalytic properties of WO₃/TiO₂ composite films by plasma electrolytic oxidation" *Materials Chemistry and Physics*, 129, 242 (2011). ISSN: 0254-0584
837. M. Jin, X. Zhang, H. Pu, S. Nishimoto, T. Murakami, A. Fujishima, "Photochromism-based detection of volatile organic compounds by W-doped TiO₂ nanofibers" *J. Colloid Interf. Sci.*, 362, 188 (2011). ISSN: 0021-9797
838. A. A. Ismail, D. W. Bahnemann, "Mesoporous titania photocatalysts: preparation, characterization and reaction mechanisms" *J. Mater. Chem.*, 21, (32) 11686-11707 (2011). ISSN (Print): 0959-9428, ISSN (Online): 1364-5501

839. S. Wei, Y. Ma, Y. Chen, L. Liu, Y. Liu, Z. Shao, "Fabrication of WO₃/Cu₂O composite films and their photocatalytic activity", *J. Hazardous Mater.*, 194, 243 (2011) ISSN 0304-3894
- E. Valova, S. Armyanov, J. Dille, Y. Van Ingelgem, A. Hubin and O. Steenhaut, d Co–Re–P and Co–Re–Ni–P Coatings: Elemental State of the Alloy Components and Their Localization", *J. Electrochem. Soc.*, 155, D449 (2008) DOI: 10.1149/1.2898862; ISSN: 1945-7111 online; ISSN: 0013-4651 print
840. S. Pané, E. Pellicer, K.M. Sivaraman, S. Suriñach, M.D. Baró, B.J. Nelson, J. Sort, "High-performance electrodeposited Co-rich CoNiReP permanent magnets", *Electrochim. Acta*, 56, 8979 (2011) ISSN: 0013-4686
- Tegou, A., Papadimitriou, S., Armyanov, S., Valova, E., Kokkinidis, G., and Sotiropoulos, S., "Oxygen reduction at platinum- and gold-coated iron, cobalt, nickel and lead deposits on glassy carbon substrates" *J. Electroanal. Chem.*, 623, 187 (2008). ISSN: 1572-6657
841. S. Cherevko, X. Xing, C.-H. Chung, "Pt and Pd decorated Au nanowires: Extremely high activity of ethanol oxidation in alkaline media" *Electrochim. Acta*, 56, 5771 (2011). ISSN: 0013-4686
842. Z. Dursun, S.U. Karabiberoglu, B. Gelmez, F.N. Ertaş, "Electrocatalytic reactivity of Pt ad-layer modified Au(111) single crystal electrodes on reduction of oxygen" *Turkish Journal of Chemistry*, 35, 513 (2011). ISSN 1300-0527
- Eichelbaum, M., Rademann, K., Hoell, A., Tatchev, D., Weigel, W., Stosser, R., Pacchioni, G., ,, Photoluminescence of atomic gold and silver particles in soda-lime silicate glasses", *Nanotechnology*, 19, Article Number: 135701 (2008), ISSN 0957-4484 (Print) ISSN 1361-6528 (Online)
843. Diez Isabel; Ras Robin H. A. "Fluorescent silver nanoclusters", *Nanoscale*, 3, 1963-1970 (2011) ISSN 2040-3364
844. Guo Hai; Li JingJing; Li Fang; et al. "Origin of White Luminescence in Ag-Eu Co-doped Oxyfluoride Glasses", *J. Electrochem. Soc.*, 158, J165-J168 (2011). ISSN: 0013-4651
- Papadimitriou, S., Tegou, A., Pavlidou, E., Armyanov, S., Valova, E., Kokkinidis, G., and Sotiropoulos, S., "Preparation and characterisation of platinum- and gold-coated copper, iron, cobalt and nickel deposits on glassy carbon substrates" *Electrochim. Acta*, 53, 6559 (2008), ISSN: 0013-4686
845. B.-J. Kim, W.-K. Choi, M.-K. Um, S.-J. Park, " Effects of nickel coating thickness on electric properties of nickel/carbon hybrid fibers" *Surf. Coat. Technol.*, 205, 3416 (2011) ISSN: 0257-8972
846. S. Lee, K-H. Kang, H. S. Hong, Y. Yun, J-H. Ahn, S-K. Woo, "Interfacial morphologies between NiO-YSZ fuel electrode/316 stainless steel as interconnect material and B-Ni₃ brazing alloy in solid oxide fuel cell system: effect of joint loading during brazing" *Canadian Metallurgical Quarterly*, 50, (1) 72-79 (2011). ISSN (Print): 0008-4433, ISSN (Online): 1879-1395
847. M. Fayette, Y. Liu, D. Bertrand, J. Nutariya, N. Vasiljevic, N. Dimitrov, "From Au to Pt via Surface Limited Redox Replacement of Pb UPD in One-Cell Configuration" *Langmuir*, 27, 5650 (2011). ISSN (Print): 0743-7463, ISSN (Online): 1520-5827
848. B.-J. Kim, W.-K. Choi, K.-M. Bae, C.-W. Moon, H.S. Song, J.K. Park, J.Y. Lee, S.-S. Im, S.-J. Park, "Roles of Nickel Layer Deposition on Surface and Electric Properties of Carbon Fibers" *Bulletin of the Korean Chemical Society*, 32, 1630 (2011). ISSN: 0253-2964
849. H. Zhao, J. P. Dong, S. Y. Xing, Y. Li, J. Shen, J. Xu, "Electrochemical oxidation of small organic molecules on hydrothermal synthesized Pt and PtCo/ordered mesoporous carbon" *Intern. J. Hydrogen Energy*, 36, 9551, (2011). ISSN: 0360-3199
850. Z. Liu, Z. Li, F. Wang, J. Liu, J. Ji, J. Wang, W. Wang, S. Qin, L. Zhang, "Synthesis of multi-walled carbon nanotube supported nickel catalysts by hydrazine reduction and their electrocatalytic activity on ethanol electro-oxidation" *Materials Letters*, 65, 3396 (2011). ISSN: 0167-577X
851. Y. J. Kuang, B. H. Wu, Y. Cui, Y. M. Yu, X.H. Zhang, J. H. Chen, "Preparation of hollow platinum nanospheres/carbon nanotubes nanohybrids and their improved stability for electro-oxidation of methanol", *Electrochim. Acta*, 56, 8645 (2011) ISSN: 0013-4686
852. P. Shahbazi, A. Kiani, "Nanoporous Ag and Pd foam: Redox induced fabrication using electrochemically deposited nanoporous Cu foam with no need to any additive", *Electrochimica Acta*, 56, 9520 (2011) ISSN: 0013-4686
853. R. Sanjinés, M.D. Abad, Cr.Vâju, R. Smajda, M. Mionić, A. Magrez, "Electrical properties and applications of carbon based nanocomposite materials: An overview", *Surf. Coat. Technol.*, 206, 727 (2011) ISSN: 0257-8972

854. M. Arenz, N. Markovic, Ch.9 "Half-Cell Investigations of Cathod Catalysts for PEM Fuel Cells: From Model Systems to High-Surface Catalysts", in *Fuel Cell Science: Theory, Fundamentals, and Biocatalysis*, Edited by A. Wieckowski, J. Norskov, Wiley, (2011) P. 315, ISBN-10: 0470410299 | ISBN-13: 978-0470410295
- J. Georgieva, S. Armyanov, I. Poullos, S. Sotiropoulos, "An all-solid photoelectrochemical cell for the photooxidation of organic vapours under ultraviolet and visible light illumination.", *Electrochem. Commun.*, 11, 1643 (2009) ISSN 1388-2481.
855. Y. Liu, C. Xie, T. Zou, J. Li, H. Chen, D. Zeng, "Applied low bias with high frequency for enhancing mineralization ability of WO₃ as visible-light-driven photocatalyst in gas phase" *Catal. Communic.*, 16, 180 (2011) ISSN 1566-7367
- 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" *J. Electroanal. Chem.*, 634, 104 (2009). ISSN: 1572-6657
856. P. He, Y. Wang, X. Wang, F. Pei, H. Wang, L. Liu, L. Yi, „Investigation of carbon supported Au–Ni bimetallic nanoparticles as electrocatalyst for direct borohydride fuel cell" *J. Power Sources*, 196, 1042 (2011) , ISSN: 0378-7753
857. R. E. Rettew, N. K. Allam, F. M. Alamgir, "Experimental Investigation of Charge Carrier Transport in Organic Thin-Film Transistors with "Buried Surface Layers" *ACS Appl. Mater. Interfaces*, 3, 147 (2011). ISSN (Print): 1944-8244, ISSN (Online): 1944-8252
858. S.-I. Yamazaki, M. Yao, H. Senoh, Z. Siroma, N. Fujiwara, T. Ioroi, K. Yasuda, "Metallocomplex-based borohydride electro-oxidation catalysts" *Catalysis Today*, 170, 141 (2011). ISSN: 0920-5861
859. P. He, X. Wang, P. Fu, H. Wang, L. Yi, "The studies of performance of the Au electrode modified by Zn as the anode electrocatalyst of direct borohydride fuel cell" *Internat. J. Hydrogen Ener.*, 36, 8857 (2011). ISSN: 0360-3199
860. D. M. F. Santos, C. A. C. Sequeira, "Sodium borohydride as a fuel for the future" *Renewable and Sustainable Energy Reviews*, 15, 3980 (2011). ISSN: 1364-0321
- 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, 5217 (2010). ISSN (Print): 1932-7447, ISSN (Online): 1932-7455
861. A. D. Modestov, M. R. Tarasevich, A. Y. Leykin, "CO electrooxidation study on Pt and Pt–Ru in H₃PO₄ using MEA with PBI–H₃PO₄ membrane" *J. Power Sources*, 196, 2994 (2011) ISSN: 0378-7753
862. Q. Sun, Z. Ren, R. Wang, N. Wang, X. Cao, "Platinum catalyzed growth of NiPt hollow spheres with an ultrathin shell" *J. Materials Chem.*, 21, 1925 (2011). ISSN (Print): 0959-9428, ISSN (Online): 1364-5501
863. A. Moghieb, M. C. Correia, L. McElwee-White, "Electrochemical oxidation of ethanol using Nafion electrodes modified with heterobimetallic catalysts" *Inorgan. Chimica Acta*, 369, 159 (2011) ISSN: 0020-1693
864. M. Fayette, Y. Liu, D. Bertrand, J. Nutariya, N. Vasiljevic, N. Dimitrov, "From Au to Pt via Surface Limited Redox Replacement of Pb UPD in One-Cell Configuration" *Langmuir*, 27, 5650 (2011). ISSN (Print): 0743-7463, ISSN (Online): 1520-5827
865. S. A. Francis, S. H. Bergens, "Low Pt-loading Ni–Pt and Pt deposits on Ni: Preparation, activity and investigation of electronic properties" *J. Power Sources*, 196, 7470 (2011). ISSN: 0378-7753
866. H. Zhao, J. P. Dong, S. Y. Xing, Y. Li, J. Shen, J. Xu, "Electrochemical oxidation of small organic molecules on hydrothermal synthesized Pt and Pt-Co/ordered mesoporous carbon" *Intern. J. Hydrogen Energy*, 36, 9551, (2011). ISSN: 0360-3199
867. Fengxing Jiang, Rong Zhou, Zhangquan Yao, Yukou Du, Jingkun Xu, Ping Yang, Chuanyi Wangm , "Facile Fabrication of Pt-Cu Nanoclusters-Decorated Porous Poly(5-cyanoindole) with High Electrocatalytic Activity", *Int. J. Electrochem. Sci.*, 6, 4114 (2011) ISSN 1452-3981
868. Y. J. Kuang, B. H. Wu, Y. Cui, Y. M. Yu, X. H. Zhang, J. H. Chen, "Preparation of hollow platinum nanospheres/carbon nanotubes nanohybrids and their improved stability for electro-oxidation of methanol", *Electrochim. Acta*, 56, 8645 (2011) ISSN: 0013-4686
869. P. Shahbazi, A. Kiani, "Nanoporous Ag and Pd foam: Redox induced fabrication using electrochemically deposited nanoporous Cu foam with no need to any additive", *Electrochimica Acta*, 56, 9520 (2011) ISSN: 0013-4686

870. K. Neuróhr, A. Csik, K. Vad, A. Bartók, G. Molnár, L. Péter, "Composition depth profile analysis of electrodeposited alloys and metal multilayers: the reverse approach" *J. Solid State Electrochem.*, 15, 2523 (2011) ISSN: 1432-8488 (print version) ISSN: 1433-0768 (electronic version).
871. D. Serra, M. C. Correia, L. McElwee-White, "Iron and Ruthenium Heterobimetallic Carbonyl Complexes as Electrocatalysts for Alcohol Oxidation: Electrochemical and Mechanistic Studies", *Organometallics*, 30 5568 (2011) ISSN 0276-7333
872. A. Kloke, F. Von Stetten, R. Zengerle, S. Kerzenmacher "Strategies for the Fabrication of Porous Platinum Electrodes", *Advanced Materials*, 23 (43) 4976-5008 (2011) Print ISSN: 0935-9648; Online ISSN: 1521-4095, DOI 10.1002/adma.201102182
- D. Tatchev, Ts. Vassilev, G. Goerigk, S. Armyanov, R. Kranold, "Kinetics of primary crystallization of hypoeutectic amorphous Ni–P alloy studied by in situ ASAXS and DSC" *J. Non-crystall. Sol.*, 356, 351 (2010). ISSN: 0022-3093
873. K. Mandel, F. Dillon, A. A. Koos, Z. Aslam, K. Jurkschat, F. Cullen, A. Crossley, H Bishop, K. Moh, C. Cavellius, E. Arzt, N. Grobert, "Facile, fast, and inexpensive synthesis of monodisperse amorphous Nickel-Phosphide nanoparticles of predefined size" *Chem. Commun.*, 47, 4108 (2011). ISSN (Print): 1359-7345, ISSN (Online): 1364-548X
- J. Georgieva, S. Armyanov, I. Poullos, A.D. Jannakoudakis, S. Sotiropoulos, "Gas Phase Photoelectrochemistry in a Polymer Electrolyte Cell with a Titanium Dioxide/Carbon/Nafion Photoanode", *Electrochem. Solid-State Lett.*, (13), 11 (2010) ISSN: 1944-8775 online. ISSN: 1099-0062 print.
874. Y. Liu, C. Xie, T. Zou, J. Li, H. Chen, D. Zeng, "Applied low bias with high frequency for enhancing mineralization ability of WO₃ as visible-light-driven photocatalyst in gas phase." *Catal. Communic.*, 16, 180 (2011) 180-183 ISSN: 1566-7367
- Kasyutich, O. Ilari, A. Fiorillo, 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", *J. Am. Chem. Soc.* 132, 3621-3627 (2010) Print Edition ISSN: 0002-7863, Web Edition ISSN: 1520-5126
875. Rakshit Tatini; Mukhopadhyay Rupa, "Tuning Band Gap of Holoferritin by Metal Core Reconstitution with Cu, Co, and Mn", *Langmuir*, 27, 9681-9686 (2011) Print Edition ISSN: 0743-7463, Web Edition ISSN: 1520-5827
876. Mougin Nathalie C.; van Rijn Patrick; Park Hyunji; et al. "Hybrid Capsules via Self-Assembly of Thermoresponsive and Interfacially Active Bionanoparticle-Polymer Conjugates", *Adv. Funct. Mat.* 21, 2470-2476 (2011) Online ISSN: 1616-3028
877. Keyes Jeremiah D.; Hilton Robert J.; Farrer Jeffrey; et al. "Ferritin as a photocatalyst and scaffold for gold nanoparticle synthesis", *J. Nanopart. Res.*, 13, 2563-2575, (2011) ISSN: 1388-0764 (print version) ISSN: 1572-896X (electronic version)
878. Van Rijn Patrick; Mougin Nathalie C.; Franke Daniel; et al "Pickering emulsion templated soft capsules by self-assembling cross-linkable ferritin-polymer conjugates", *Chemical Communications*, 47, 8376-8378 (2011) ISSN 1359-7345
879. Bode Saskia A.; Minten Inge J.; Nolte Roeland J. M.; et al. "Reactions inside nanoscale protein cages", *Nanoscale*, 3, 2376-2389 (2011) ISSN 2040-3364
880. Barooah Nilotpal; Bhasikuttan Achikanath C.; Sudarsan V.; et al. "Surface functionalized silver nanoparticle conjugates: demonstration of uptake and release of a phototherapeutic porphyrin dye", *Chemical Communications*, 47, 9182-9184 (2011) ISSN 1359-7345
881. Van Rijn, P., Böker, A., "Bionanoparticles and hybrid materials: Tailored structural properties, self-assembly, materials and developments in the field", *Journal of Materials Chemistry* 21, 16735-16747, (2011) ISSN 0959-9428
882. Gupta, B., Joshi, L., Prakash, R. "Novel synthesis of polycarbazole-gold nanocomposite", *Macromolecular Chemistry and Physics* 212, 1692-1699 (2011) Online ISSN: 1521-3935
883. Jones, M.R., Osberg, K.D., MacFarlane, R.J., Langille, M.R., Mirkin, C.A. "Templated techniques for the synthesis and assembly of plasmonic nanostructures", *Chemical Reviews*, 111, 3736-3827 (2011) Print Edition ISSN: 0009-2665, Web Edition ISSN: 1520-6890
884. Haikarainen, T., Thanassoulas, A., Stavros, P., Nounesis, G., Haataja, S., Papageorgiou, A.C. "Structural and thermodynamic characterization of metal ion binding in *Streptococcus suis* Dpr", *Journal of Molecular Biology* 405, 448-460, (2011) ISSN: 0022-2836

- J. Georgieva, S. Sotiropoulos, S. Armyanov, N. Philippidis, I. Poullos, "Photoelectrocatalytic activity of bi-layer TiO₂/WO₃ coatings for the degradation of 4-chlorophenol: effect of morphology and catalyst loading" *J. Appl. Electrochem.*, 41, 173 (2011). ISSN (Print): 0021-891X, ISSN (Online): 1572-8838
885. M. de Souza Sikora, A. Viana Rosario, E. Chaves Pereira, C. O. Paiva-Santos, "Influence of the morphology and microstructure on the photocatalytic properties of titanium oxide films obtained by sparking anodization in H₃PO₄" *Electrochim. Acta*, 56, 3122 (2011). ISSN: 0013-4686
- S. Armyanov, E. Valova, J. Georgieva, "New Features in Electroless Deposition of Ternary Coatings on the Base of Ni-P and Co-P" *Z. Phys. Chem.*, 225, 283 (2011). ISSN: 0942-9352
886. S. G. Hickey, A. Bund, "Editorial" *Z. Phys. Chem.*, 225, 279 (2011). ISSN: 0942-9352
- Tatchev D. Hoell A. Eichelbaum M. Rademann K., „X-Ray-Assisted Formation of Gold Nanoparticles in Soda Lime Silicate Glass: Suppressed Ostwald Ripening“ *Phys. Rev. Lett.* 106 Article Number: 085702, (2011) ISSN 0031-9007 (print), 1079-7114 (online), 1092-0145 (CD-Rom)
887. Harada Masafumi; Tamura Noriko; Takenaka Mikihito, "Nucleation and Growth of Metal Nanoparticles during Photoreduction Using In Situ Time-Resolved SAXS Analysis", *J. Phys. Chem. C* 115 14081-14092 (2011) Print Edition ISSN: 1932-7447, Web Edition ISSN: 1932-7455
888. Som Tirtha; Karmakar Basudeb, "Plasmonic Au(x)Ag(y) bimetallic alloy nanoparticles enhanced photoluminescence upconversion of Er(3+) ions in antimony glass hybrid nanocomposites", *J. Modern Optics*, 58 1012-1023 (2011) Print ISSN: 0950-0340
Online ISSN: 1362-3044
- I. Valov, D. Stoychev, Ts. Marinova, „Study of the kinetics of processes during electrochemical deposition of zirconia from nonaqueous electrolytes“, *Electrochim. Acta*, 47 (2002) 4419-4431. ISSN: 0013-4686.
889. . L. Baixiang, Hu Jingping, J. Foord, Electrochemical Deposition of Zirconia Films on Diamond Electrodes, *Electrochemical and Solid State Letters*, 14 (2011) D20-D22.
ISSN: 1099-0062.
890. N. Esmail, S. Mohammad, R.H. Reza, T. Fatemeh, Investigation of structural evolution and electrochemical behaviour of zirconia thin films on the 316L stainless steel substrate formed via sol-gel process, *Surface and Coatings Technology*, 205 (2011) 5109-5115.
ISSN: 0257-8972.
891. E. Nouri, M Shahmiri, H.R. Rezaie, F. Talayian, „Investigation of structural evolution and electrochemical behaviour of zirconia thin films on the 316L stainless steel substrate formed via sol-gel process“, *Surface and Coat. Techn.* 205 (21-22) 5109-5115 (2011). ISSN: 0257-8972
- V. Nikolova, P. Iliev, K. Petrov, T. Vitanov, E. Zhecheva, R. Stoyanova, I. Valov, D. Stoychev, Electrochemicals for bifunctional oxygen/air electrodes, *Journal of Power Sources*, 185 (2008) 727-733. ISSN: 0378-7753.
892. . B.Lu, D.Cao, P.Wang, Y.Gao, „Oxygen evolution reaction on Ni-substituted Co₃O₄ nanowire array electrodes“, *J.of Hydrogen Energy*, 36 (2011) 72-78. ISSN: 0360-3199.
893. S. Zhang, K. Huang, C. Huang, S. Lin, M. Fan, „Preparation of silver-modified La_{0.6}Ca_{0.4}CoO₃ binary electrocatalyst for bi-functional air electrodes in alkaline medium“, *J.Power Sources*, 196 (2011) 4019-4025. ISSN: 0378-7753.
894. . X. Li, W. Qu, J. Zhang, H. Wang, „Electrocatalytic Activities of La_{0.6}Ca_{0.4}CoO₃ and La_{0.6}Ca_{0.4}CoO₃-Carbon Composites Toward the Oxygen Reduction Reaction in Concentrated Alkaline Electrolytes“, *J.Electrochem.Soc.*, 158 (2011) A597-A604.
ISSN: 1945-7111 online.
895. T. Zhang, N. Imanishi, Y. Takeda, O. Yamamoto, Aqueous Lithium/Air Rechargeable Batteries, *Chemistry Letters*, 40 (2011) 668-673. ISSN: 0366-7022.
896. D. Pletcher, X. Li, „Prospects for alkaline zero gap water electrolyzers for hydrogen production“, *J. of Hydrogen Energy*, 36 (2011) 15089-15104. ISSN:0360-3199.
- 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) 4037-4052. ISSN: 0010-938X.
897. W. Xiong, G.T. Qi, X. P. Guo et al. „Anodic dissolution of Al sacrificial anodes in NaCl solution containing Ce“, *Corrosion Science*, 53 (2011) 1298-1303. ISSN: 0010-938X.

898. A. Samide, B. Tutunaru, „Study of the Corrosion Resistance of Ni/CeO₂ Composite Coatings Electrodeposited on Carbon Steel in Hydrochloric Acid”, *Chemical and Biochemical Engineering Quarterly*, 25 (2011) 203-208. ISSN: 0352-9568.
899. Y. Wang, S.L. Jiang, Y.G. Zheng, W.Ke, W.H. Sun, J.Q. Wang, „Effect of porosity sealing treatments on the corrosion resistance of high-velocity oxy-fuel (HVOF)-sprayed Fe-based amorphous metallic coatings”, *Surf.Coat.Technology*, 206(6) (2011) 1307-1318. ISSN: 0257-8972.
- 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.
900. . L. Martinez, E. Romero, J.L. Segovia, S. Poupard, J. Creus, F. Pedraza, „Surface study of cerium oxide based coatings obtained by cathodic electrodeposition on zinc”, *Appl.Surf.Sci.*, 257 (2011) 6202-6207. ISSN: 0169-4332.
- P. Stefanov, D. Stoychev, M. Stoycheva, Ts. Marinova, Chromium Oxide Eilms Chemically Formed on Stainless Steel 316L, *Mater.Chem.Phys.*, 65 (2000) 212-215. ISSN: 0254-0584.
901. . J. Dolf, P.E. Archibong, G. Gones, E.N. Koroleva, P. Skeldon, G.E. Thompson, „Formation and composition of nanoporous films on 316L stainless steel by pulsed polarization”, *Electrochim. Acta*, 56 (2011) 3225-3237. ISSN: 0013-4686.
902. D. Di Mondo, D. Ashok, F. Waldie, N. Shrier, M. Morrison, M. Shlaf, „Stainless Steel As a Catalyst for the Total Deoxygenation of Glycerol and Levulinic Acid in Aqueous Acidic Medium”, *ACS Catalysis*, 1 (2011) 355-364. ISSN: 21555435.
903. B. Bozzini, M. Amati, M.K. Abyaneh, L. Gregoratti, M. Kiskinova, Scanning photoelectron microscopy investigation of the initial stages of the electrochemical reduction of Cr(VI) at Pt(111) electrode, *J.Electroanal.Chem.*, 657 (2011) 113-116. ISSN: 0022-0728.
904. . Z. Zhang, J. Wang, E.H. Han, W. Ke, Jinshu Xuebao, Analyses of surface oxide films on ground alloy 690TT after immersion for different times, „*Acta Metallurgica Sinica*”, 47 (2011) 823-830. ISSN: 1006-7191
905. . Z.Zhang,J.Wang, E.H.Han, W.Ke, Jinshu Xuebao, „Analyses of surface oxide films on electropolished alloy 690TT after immersion for different times”, *Acta Metallurgica Sinica*, 47 (2011) 831-838 ISSN: 1006-7191
906. S. Fleutot,J.-C. Dupin, G. Renandin, H. Martinez, „Intercalation and grafting of benzene derivatives into zinc-aluminum and copper-chromium layered double hydroxide hosts: an XPS monitoring study”, *Physical Chemistry Chemical Physiscs*, 13 (2011) 17564-17578. ISSN: 1463-9076 (electronic).
- 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) 446-449. ISSN: 0257-8972.
907. . J. Tang, Z. Han, Y. Zuo, Y. Tang, A corrosion resistant cerium oxide based coating on aluminum alloy 2024 prepared by brush plating, *Applied Surf.Science*, 257 (2011) 2806-2812. ISSN: 0169-4332.
908. L. Martinez, E. Romero, J.L. Segovia, S. Poupard, J. Creus, F. Pedraza, „Surface study of cerium oxide based coatings obtained by cathodic electrodeposition on zinc”, *Appl.Surf.Sci.*, 257 (2011) 6202-6207. ISSN: 0169-4332.
909. G. Balakrishnan, S.T. Sundari, P. Cuppusami, P.C. Mohan, M.P. Srinivasan, E. Mohandes, V. Ganessan, D. Sastikumar, „A study of microstructural and optical properties of nanocrystalline ceria thin films prepared by pulsed laser deposition”, *Thin Solid Films*, 519 (2011) 2520-2526. ISSN: 0040-6090.
910. M. Orvatinia, A. Chahkontahi, „MOS structure fabrication by thermal oxidation of multilayer metal thin films”, *Journal of Semiconductors*, 32(3), art.no. 036001(2011). ISSN: 1674-4926.
911. F. Pedraza, B. Bouchaud, J. Balmain, G. Bonnet, J. Menuey, „Electrosynthesis of rare earth oxide coatings for high temeperature applications”, *Materials Sci. Forum*, 696 (2011) 336-341.ISSN: 0255-5476
- R. Iankov, S. Cherneva, D. Stoychev, „Investigation of material properties of thin copper films through finit element modeling of microindentation test”, *J. Appl. Surf. Sci.*, 254 (2008) 5460-5469. ISSN: 0169-4332.
912. P. Yang, C.L.S.H. Shang, Numerical and Test Evaluation on Adhesion Properties in Cr/Al Interface Film Structure *Current Nanoscience*, 7 (2011) 288-293. ISSN: 1573-4137.

913. . S.A. Rodriguez, R.M. Souza, J. Alcalá, „A critical reassessment of elastic unloading in sharp instrumented indentation experiments and the extraction of mechanical properties”, *Philosophical Magazine*, 91 (2011) 1409-1423. ISSN: 1478-6435.
- 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) 360. ISSN: 0254-0584.
914. . Ren-Jian Hou, Thesis, National Taipei University of Technology Graduate, Inst.Chem.Eng. [www.cetd.com.tw/.../thesisdetail.aspx], (2011).
- 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).
915. P. Broekmann, A. Fluegel, C. Emenet, M. Arnold, C. Roeger-Goepfer, C. Wagner, N.T.M. Hai, D. Mayer, „Classification of suppressor additives based on synergistic and antagonistic ensemble effects”, *Electrochim.Acta*, 56 (2011) 4724-4734. ISSN: 0013-4686.
916. J.J. Hatch, PhD Thesis, In situ Electrochemical Spectroscopy and Probe Microscopy Studies of Electrodeposition, University of Illinois at Urbana, Champaign, Issued 2011-08-25
917. Lin Yanjun, PhD Thesis, “Flip Chip Package by Plating Copper – A Study of Sn-Ag Bump”, Datong University, Taiwan, etd-0825110-003245, 2011-08-30
918. Zheng Jing-Wu et al., „Copper Electrodeposition from Non-Cyanide Alkaline Baths Containing Methylene Diphosphonic Acid as a Complexing Agent”, *Acta Phys-Chim. Sinica*, 27 (2011) 143-148. ISSN: 1872-1508
919. Lu Xue-Bin et al., „Preparation of a (3-Mercaptopropyl) triethoxysilane Film on Copper and Its Corrosion Protective Performance”, *Acta Phys-Chim. Sinica* 27 (2011)108-112. ISSN: 1872-1508
920. J.J. Hatch, M.J. Willey, A.A. Gewirth, „Influence of Aromatic Functionality on Quaternary Ammonium Levelers for Cu Plating”, *J. Electrochem. Soc.*, 158 (2011) D323-D329. ISSN: 1945-7111 online
921. T.A. Atanasova, K. Strubbe, P.M. Vereecken, „Adsorption/desorption of suppressor complex on copper : description of the critical potential”, *ECS Transactions* (2011) 33 (37, Molecular Structure of the Solid-Liquid Interface and Its Relationship to Electrodeposition 7), 13-26. ISSN: 1938-5862 print
922. R. Manu, S. Jayakrishnan, „Influence of polymer additive molecular weight on surface and microstructural characteristics of electrodeposited copper”, *Bulletin of Materials Science*, 34 (2011) 347-356. ISSN: 0973-7669
923. Yong-Da Chiu et al., Copper Underpotential Deposition on Gold in the Presence of Polyethylene Glycol and Chloride , *Int. J. Electrochem. Sci.*, 6 (2011) 3416-3426. ISSN 1452-3981.
- I. Tomov, D. Stoychev, I. Vitanova, Recovery and Recrystallization of Electrodeposited Bright Copper Coatings at Room Temperature.I.Microhardness in Relation to Coating Structure, *J. Appl. Electrochem.*, 15 (1985) 877-894. ISSN: 0021-891X (print version).
924. Y. Fukai, „Hydrogen-Induced Superabundant Vacancies in Metals: Implication for Electrodeposition”, *Defect and Diffusion Forum*, 312-315 (2011) 1106-1115. ISSN: 1662-9507
925. Stefan P.Hau-Riege, PhD Thesis “New Methodologies for Interconnect Reliability Assessments of Integrated Circuits”, MIT, USA, 2011, Cit.Tom 85
- E. Michailova, I. Vitanova, D. Stoychev, A. Milchev, „Initial Stages of Copper Electrodeposition in the Presence of Organic Additives”, *Electrochim. Acta*, 38 (1993) 2455-2458. ISSN: 0013-4686.
926. Shahram Karimi, PhD Thesis, Grad.Dep. Chem.Eng.Appl.Chem., University Toronto (2011);https://tspace.library.utoronto.ca/bitstream/1807/29769/1/Karimi_Shahram_201106_PhD_thesis.pdf; (Cit.400)
- D. Stoychev, I. Vitanova, S. Rashkov, T. Vitanov, Adsorption of Substances Acting as Brighteners in Electrolytic Deposition of Copper, *Surf. Technology*, 7 (1978) 427. ISSN: 0257-8972.
927. A. Mendez, L.E. Moron, L. Ortiz-Frade, Y. Meas, R. Ortega-Borges, G. Trejo, Thermodynamic Studies of PEG (Mw 20,000) Adsorption onto a Polycrystalline Gold Electrode, *J.Electrochem.Soc.*, 158 (2011) F45-F51. ISSN: 1945-7111 online.

- V. Lazarov, D. Stoychev, „Determination of kinetic parameters and the mechanism of electrodeposition of copper from sulphuric acid electrolytes in the presence/absence of surface-active substances”, *Bulg.Chem.Commun.*, 35 (2003) 65-73. ISSN: 0324-1130.
928. K. Ignatova, D. Stoykova, Study of the influence of nitrite anions on the electrode processes in ammonium electrolyte for Ag-Cu deposition, *Bulg.Chem.Commun.*, 43 (2011) 48-53. ISSN: 0324-1130.
- T. Novakovic, N. Radic, B. Grbic, T. Marinova, P. Stefanov, D. Stoychev, „Oxidation of n-hexane over Pt and Cu-Co oxide catalysts supported on a thin-film zirconia/stainless steel carrier”, *Catalysis Communications*, 9 (2008) 1111-1118. ISSN: 1566-7367.
929. D. Oancea, V. Minteanu, D. Razus, M. Mitu, „Temperature and pressure effect on the isothermal catalytic ignition of n-hexane/air mixtures on platinum”, *Revue Roumaine de Chimie*, 56 (2011) 255-260. ISSN: 0035-3030.
- D. Nikolova, E. Stoyanova, D. Stoychev, I. Avramova, P. Stefanov, Protective effect in sulphuric acid media of alumina and ceria oxide layers electrodeposited on stainless steel, *Surf.Coat.Technol.*, 202 (2008) 1876-1888. ISSN: 0257-8972.
930. 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.
931. L.Yang, X.Pang, G.Fox-Rabinovich, S.Veldhus, I.Zhitomirsky, Electrodeposition of cerium oxide films and composites, *Surf.Coat. Technology*, 206(1) (2011) 1-7. ISSN: 0257-8972.
- D. Nikolova, E. Stoyanova, D. Stoychev, I. Avramova, P. Stefanov, Anode behaviour of stainless steel covered with an electrochemically deposited Ce₂O₃-CeO₂ film, *Surf. Coat. Technol.*, 201 (2006) 1559-1567. ISSN: 0257-8972.
932. 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.
- D. Stoychev, I. Valov, P. Stefanov, G. Atanasova, M. Stoycheva, T. Marinova, Electrochemical growth of thin La₂O₃ films on oxide and metal surfaces, *Materials Science and Engineering*, C23 (2003) 123-128, ISSN: 0921-5107.
933. M.F. Sunding, K. Hadidi, S. Duplas, O.M. Lowik, T.E. Norby, A.E. Gunnes, XPS characterisation of in situ treated lanthanum oxide and hydroxide using tailored charge referencing and peak fitting procedures, *J. Electron Spectroscopy and Related Phenomena*, 184 (2011) 399-400. ISSN: 0368-2048.
- 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.
934. X. Dong, K. Tsuneyama, T. Hibino, Ultra-low loading Pt Rh/Sn(0.9)In(0.1)P(2)O(7) three-way catalyst for propane + NO + O(2) reaction *Applied Catalysis B:Environmental*, 106 (2011) 503-509, ISSN: 0926-3373.
- P. Stefanov, D. Stoychev, M. Stoycheva, A.R. Gonzales-Elipse, T. Marinova, XPS, SEM and EM Characterisation of Stainless Steel 316 L Surfaces after Electrochemical Etching and Oxidizing, *Surf.Interface Analysis*, 28 (1999) 106-110. ISSN: 0142-2421.
935. W. Chen, R. Du, R. Hu, H. Shi, Y. Zhu, C. Lin, J. Xuebao, Correlation between composition of reinforcing steel surface film and steel corrosion behavior in simulated concrete pore solutions, *Acta Metallurgica Sinica*, 47(6), (2011), 735-742. ISSN: 1006-7191.
- I. Zhivkova, A. Zhivkov, D. Stoychev, Electrostatic Behaviour of Polyethylene Oxide, *Eur.Polym.Journal*, 34(3/4), (1998), 531-536. ISSN: 0014-3057.
936. D.A.Koleva, N. Boshkov, K. Van Breugel, J.H.W. De Wit, Steel corrosion resistance in model solutions, containing waste materials, *Eletrochimica Acta* 58 (2011) 628-646. ISSN: 0013-4686
937. S. Mallakpour, F. Rafiemanzalat, M.A. Zolfigol, P. Salhi, D.Y. Yang, Synthesis, characterization, and properties of co-poly (ether-urethane-urea)s containing lariat cryptand 22: Li⁺ harvesting polymers, *Polymer Bulletin*, 67 (2011) 553-569. ISSN: 1436-2449 (Online).

938. K. O. Nayana, T.V.Venkatesha, Synergistic effects of additives on morphology, texture and discharge mechanism of zinc during electrodeposition, *J. Electroanalytical Chemistry*, 663 (2011). 98-107. ISSN: 0022-0728
- A. Milchev, D. Stoychev, V. Lazarov, A. Papoutsis, G. Kokkinidis, Electrocrystallisation of metal catalysts: nucleation and growth of platinum on a titanium electrode, *J. Crystal Growth*, 226, (2001) 138-147. ISSN: 0022-0248.
939. Shahram Karimi, PhD Thesis, Grad.Dep. Chem.Eng.Appl.Chem., University Toronto (2011),https://tspace.library.utoronto.ca/bitstream/1807/29769/1/Karimi_Shahram_201106_PhD_thesis.pdf; (Cit.400)
- 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.
940. Shahram Karimi, PhD Thesis, Grad.Dep. Chem.Eng.Appl.Chem., University Toronto (2011);https://tspace.library.utoronto.ca/bitstream/1807/29769/1/Karimi_Shahram_201106_PhD_thesis.pdf; (Cit.417)
- 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.
941. Z. Zhang, J. Wang, E. Han, W. Ke, Influence of dissolved oxygen on oxide films of Alloy 690TT with different surface status in simulated primary water, *Corros. Sci.*, 53 (2011) 3623-3635. ISSN:0010-938X.
- D. Stoychev, P. Stefanov, D. Nikolova, I. Valov, Ts. Marinova, Chemical Composition and Corrosion Resistance of Passive Chromate Films Formed on Stainless Steels 316L and 1.4301, *Mater.Chem.Phys.*, 73 (2002) 252-255. ISSN: 0254-0584.
942. S. Khabazian, S. Sanjabi, Successful incorporation of multi-walled carbon nanotubes in nickel electrodeposited coating by electrophoresis, *Appl. Surf. Sci.*, 257(22) (2011) 9366-9370. ISSN:0169-4332.
943. M. Neergat, K.R. Weibrod, Electrodeposition of 304 stainless steel in neutral electrolytes for surface decontamination applications *Corrosion Sci.*, 53 (2011) 3983-3990. ISSN: 0010-938X.
944. A.R. Grayeli; H. Savaloni, Investigation of the Corrosion Protection of Ni Deposition and Subsequent Annealing Temperature with Flow of Nitrogen on AISI 304 and AISI 316 Stainless Steels, *Corrosion* 67 (2011) Article Number: 105003 DOI: 10.5006/1.3647764
- 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, *Electrochim.Acta*, 55 (2010) 1725-1732. ISSN: 0013-4686.
945. D.R. Ou, T. Mori, K. Fugano, H. Togasaki, F. Ye, J. Drenan, Stability of Ceria Supports in Pt-CeO(x)/C Catalysts, *J. Phys. Chem. C*, 115 (2011) 19239-19245. ISSN: 0022-3654
- J. Ikonov, D. Stoychev, Ts. Marinova, XPS and SEM characterization of electrodeposited transition metals on zirconia, *Appl.Surf.Sci.*, 161 (2000) 94-104. ISSN: 0169-4332
946. E. Martono, J.M. Vohs, Active sites for the reaction of ethanol to acetaldehyde on Co/YSZ(100) model steam reforming catalysts, *ACS Catalysis*, 1 (2011), 1414-1420. ISSN 2155-5435
947. Z. Zhang, J. Wang, E.H. Han, W. Ke, Jinshu Xuebao, Analyses of surface oxide films on electropolished alloy 690tt after immersion for different times, *Acta Metallurgica Sinica*, 47 (2011) 831-838 ISSN: 1006-7191.
- D. Stoychev, On the Role of Poly (Ethylene Glycol) in Deposition of Galvanic Copper Coatings, (Review), *Trans.Inst.Metal Finishing (England)*, 76 (1998) 73-80. Online ISSN: 1745-9192.
948. K.O.Nayana, T.V.Venkatesha, Synergistic effects of additives on morphology, texture and discharge mechanism of zinc during electrodeposition, *J. Electroanalytical Chemistry*, 663 (2011). 98-107. ISSN: 0022-0728.
- I.Avramova, D. Stoychev and Ts. Marinova, Characterization of thin CeO₂-ZrO₂-Y₂O₃ films electrochemically deposited on stainless steel, *Appl.Surf.Sci.*, 253, (2006) 1365-1370. ISSN: 0169-4332.

949. X.-W. Niu, Y.-M. Sun, S.-N. Ding, C.-C. Chen, B. Song, „Preparation and characterization of novel yellow pigments: Hollow TiO₂ spheres doped with cerium”, *Journal of Materials Science: Materials in Electronics* 22 (2011) 1865-1874. ISSN: 1573-482X (electronic version).
950. Y. Liu, H. Liu, J. Ma, J. Li, „Investigation on electrochemical properties of cerium doped lead dioxide anode and application for elimination of nitrophenol”, *Electrochimica Acta* 56 (2011) 1352-1360. ISSN 0013-4686.
- D. Guergova E. Stoyanova, D. Stoychev, Influence of calcination of stainless steel OC4004 covered with alumina or ceria carrier layers on their passive state in different acid media, D.; et al., *Bulgarian chemical communications*, 40 (2008) 227-232. ISSN: 0324-1130.
951. A. Samide, B. Tutunaru, Study of the Corrosion Resistance of Ni/CeO₂ Composite Coatings Electrodeposited on Carbon Steel in Hydrochloric Acid, *Chemical and Biochemical Engineering Quarterly*, 25 (2011) 203-208. ISSN: 0352-9568.
- Yolina Hubenova, Rashko Rashkov, Vasil Buchvarov, Marina Arnaudova, Sofia Babanova, Mario Mitov, „Improvement of Yeast-Biofuel Cell Output by Electrode Modifications”, *Industrial & Engineering Chemistry Research*, 50, (2), (2011) 557-564, ISSN: 0888-5885
952. Kong, W., Guo, Q., Wang, X., Yue, X., „Electricity generation from wastewater using an anaerobic fluidized bed microbial fuel cell”, *Industrial and Engineering Chemistry Research*, 50, (21), (2011), 12225-12232, ISSN: 08885885
953. Yue, X.-H., Zhao, S.-J., Wang, X.-Y., Guo, Q.-J., “Effect of bed expansion height on electrogenesis capacity of anaerobic fluidized bed membraneless microbial fuel cell”, *Guocheng Gongcheng Xuebao/The Chinese Journal of Process Engineering* 11, (2), (2011), 199-203, ISSN: 1009606X
- N. Boshkov, K. Petrov, S. Vitkova, G. Raichevsky, “Galvanic alloys Zn-Mn - composition of the corrosion products and their protective ability in sulfate containing medium”, *Surface and Coatings Technology*, 194, 2-3, 2005, 276-282. ISSN: 0257-8972
954. F. Thébault, B. Vuillemin, R. Oltra, C. Allely, K. Ogle, “Modelling bimetallic corrosion under thin electrolyte films”, *Corrosion Science*, 53, 1, 2011, 201-207. ISSN: 0010-938X
- N. Boshkov, “Galvanic Zn-Mn alloys - electrodeposition, phase composition, corrosion behaviour and protective ability”, *Surface and Coatings Technology*, 172, 2003, 217 - 226. ISSN: 0257-8972
955. P. Zhu, X. Zhang, J. Wu, Y. Xu, M. Zhou, “Electroplating of Zn coating on AZ31 magnesium alloy in ZnF₂ solution”, *Advanced Materials Research*, v. 146-147, 2011, 1390 – 1397 ISSN: 1022-6680
956. Xiu-Ling Shang, Bo Zhang, En-Hou Han, Wei Ke, “Effect of small addition of Mn on the passivation of Zn in 0.1 M NaOH solution”, *Electrochimica Acta*, 56, 2011, 1417 - 1425 ISSN: 0013-4686
957. M. M. Bučko, S. I. Stevanović, M. V. Tomić, M. G. Pavlović, J. B. Bajat, “The peculiarities of electrochemical deposition and morphology of Zn-Mn alloy coatings obtained from pyrophosphate electrolyte, *Hemijaska Industrija*”, 65, 3, 2011, 295-303 ISSN: 0367598X
958. K. Wojczykowski, “New Developments in Corrosion Testing: Theory, Methods and Standards”, *Products Finishing* (online - Posted on: 1/31/2011), ISSN 0032-9940
959. M. Bucko, J. Rogan, S.I. Stevanovic, A. Peric-Grujic, J.B. Bajat, “Initial corrosion protection of Zn-Mn alloys electrodeposited from alkaline solution”, *Corrosion Science*, 53, 2011, 2861 – 2871 ISSN: 0010-938X
960. J. Wang, Z. Wu, X. Su, C. Wu, Y. Liu, T. Hao, “Analysis of morphology and growth kinetics of Zn-Mn and Zn-0.2wt.%Al-Mn hot-dip galvanizing coatings”, *Advanced Materials Research*, 2011, 291-294, 233-236, ISSN: 1022-6680
961. N. Galvanauskaitė, A. Sulcius, E. Griskonis, P. Diaz-Arista, “Influence of Te(VI) additive on manganese electrodeposition at room temperature and coating properties”, *Transactions of the Institute of Metal Finishing*, 2011, 89, 6, 325-332, ISSN: 0020-2967
- N. Boshkov, K. Petrov, D. Kovacheva, S. Vitkova, S. Nemska, “Influence of the alloying component on the protective ability of some zinc galvanic coatings”, *Electrochimica Acta*, 51, 1, 2005, 77-84. ISSN: 0013-4686
962. Xiu-Ling Shang, Bo Zhang, En-Hou Han, Wei Ke, “Effect of small addition of Mn on the passivation of Zn in 0.1 M NaOH solution”, *Electrochimica Acta*, 56, 2011, 1417 – 1425, ISSN: 0013-4686

963. C.N. Panagopoulos, D.A. Lagaris, P.C. Vatista, "Adhesion and corrosion behaviour of Zn-Co electrodeposits on mild steel", *Materials Chemistry and Physics*, 126, 2011, 398 – 403, ISSN: 0254-0584
964. .T. Frade, A. Gomes, M. I. Da Silva Pereira, D. Alberts, R. Pereiro, B. Fernández, "Studies on the stability of Zn and Zn-TiO₂ nanocomposite coatings prepared by pulse reverse current", *Journal of the Electrochemical Society*, 158, 2011, 3, C63-C70, ISSN: 0013-4651
965. I.H. Karahan, H.A. Çetinkara, "Study of effect of boric acid on Zn-Co alloy electrodeposition from acid baths and on composition, morphology and structure of deposit", *Transactions of the Institute of Metal Finishing*, 89, 2, 2011, 99-103 ISSN: 0020-2967
966. A. Maclej, J. Michalska, W. Simka, G. Nawrat, J. Piotrowski, "Effect of temperature and pH of ammonium galvanic bath on the properties of Zn-Co alloy coatings", *Iop Conference Series: Materials Science and Engineering*, Volume 22, Issue 1, 2011, Article number 012006. ISSN: 1757-8981
- 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, 171 - 178. ISSN: 0257-8972
967. C.N. Panagopoulos, D.A. Lagaris, P.C. Vatista, "Adhesion and corrosion behaviour of Zn-Co electrodeposits on mild steel", *Materials Chemistry and Physics*, 126, 2011, 398 – 403 ISSN: 0254-0584
968. I.H. Karahan, H.A. Çetinkara, "Study of effect of boric acid on Zn-Co alloy electrodeposition from acid baths and on composition, morphology and structure of deposit", *Transactions of the institute of Metal Finishing*, 89, 2, 2011, 99-103 ISSN: 0020-2967
969. J.B. Bajat, S.I. Stevanovic, B.M. Jokic, "Microstructure and corrosion behaviour of Zn-Co alloys deposited from three different plating baths", *Journal of the Serbian Chemical Society*, 2011, 76, 11, 1537-1550 ISSN 0352-5139
- D.A. Koleva, J. Hu, A.L.A. Fraaij, P. Stroeven, N. Boshkov and K. van Breugel, "Cathodic protection revisited: Impact on structural morphology sheds new light on its efficiency", *Cement and Concrete Composites*, 28, 8, 2006, 696-706. ISSN: 0958-9465
970. Jing Xu, Wu Yao, "Electrochemical studies on the performance of conductive overlay material in cathodic protection of reinforced concrete", *Construction and Building Materials*, 25, 5, 2011, 2655-2662, ISSN 0950-0618
971. I. Ray, G.C. Parish, J.F. Davalos, A. Chen, "Effect of concrete substrate repair methods for beams aged by accelerated corrosion and strengthened with CFRP", *Journal of Aerospace Engineering*, 24, 2, p. 227-239, ISSN: 0893-1321
972. A. Bautista, F. Velasco, S. Guzmán, F.J. Martínez, R. Calabrés, "Effect of high frequency cathodic pulses on steel embedded in mortar: Short and medium term tests", *Corrosion Engineering Science and Technology*, 46, 2011, 4, 493-498 ISSN 1478-422X
- N Boshkov, K Petrov, G Raichevski, "Corrosion behavior and protective ability of multilayer galvanic coatings of Zn and Zn-Mn alloys in sulfate containing medium", *Surface and Coatings Technology*, 200, 20-21, 2006, 5995–6001.
973. M. Rahsepar, M.E. Bahrololoom, "Corrosion resistance of Ni/Zn-Fe/Zn and Ni/Zn/Zn-Fe compositionally modulated multilayer coatings", *Corrosion Engineering, Science and Technology (Maney Publishing)*, 46, 1, 2011, 70-75(6) ISSN 1478-422X
974. M. Bucko, J. Rogan, S.I. Stevanovic, A. Peric-Grujic, J.B. Bajat, "Initial corrosion protection of Zn-Mn alloys electrodeposited from alkaline solution", *Corrosion Science*, 53, 2011, 2861 – 2871 ISSN: 0010-938X
975. J. Wang, Z. Wu, X. Su, C. Wu, Y. Liu, T. Hao, "Analysis of morphology and growth kinetics of Zn-Mn and Zn-0.2wt.%Al-Mn hot-dip galvanizing coatings", *Advanced Materials Research*, 2011, 291-294, 233-236, ISSN: 1022-6680
- N. Boshkov, S. Vitkova, K. Petrov, "Corrosion Products of Zn-Mn Coatings: Part I. Investigations Using Microprobe Analysis and X-Ray Diffraction", *Metal FinishinG*, 99, 9, 2001, 56-60. ISSN: 0026-0576
976. M. Bucko, J. Rogan, S.I. Stevanovic, A. Peric-Grujic, J.B. Bajat, "Initial corrosion protection of Zn-Mn alloys electrodeposited from alkaline solution", *Corrosion Science*, 53, 2011, 2861 – 2871 ISSN: 0010-938X

- 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, 5618–5625. ISSN: 0169-4332
- N. Boshkov, K. Petrov, S. Vitkova, G. Raichevsky, "Galvanic alloys Zn-Mn - composition of the corrosion products and their protective ability in sulfate containing medium", *Surface and Coatings technology*, 194, 2-3, 2005, 276 - 282. ISSN: 0257-8972
977. N. Thomas, M. Rajamathi, "High selectivity in anion exchange reactions of the anionic clay, cobalt hydroxynitrate", *Journal of Materials Chemistry*, 2011, 21, 44, 18077 – 18082, ISSN 0959-9428
- D.A. Koleva, J. Hu, A.L.A. Fraaij, P. Stroeven, N. Boshkov, J.H.W. de Wit, "Quantitative characterization of steel/cement paste interface microstructure and corrosion phenomena in mortars suffering from chloride attack", *Corrosion Science*, 48, 12, 2006, 4001-4019. ISSN: 0010-938X
978. C. Xu, Z. Li, W. Jin, "Electrochemical impedance spectroscopy characteristics of corrosion behavior of rebar in concrete", *Corrosion Science and Protection Technology*, 2011, 23, 5, p. 393-398 ISSN: 1002-6495
979. M. Sosa, T. Pérez-López, J. Reyes, F. Corvo, R. Camacho-Chab, P. Quintana, D. Aguilar, "Influence of the Marine Environment on Reinforced Concrete Degradation Depending on Exposure Conditions", *International Journal of Electrochemical. Science*, 2011, 6, 6300 – 6318, ISSN 1452-3981
- Karamanov A., Gutzow I., Penkov I., "Diopside Marble-like Glass-Ceramics", *Glastech. Ber., Glass Sci. Tech.*, , 67, [7], 1994, 202-208, ISSN 0946-7475
980. Zhang, W.Y., Gao, H., Xu, Y. Sintering and reactive crystal growth of diopside-albite glass-ceramics from waste glass, *Journal of the European Ceramic Society* 31 (9), 1669-1675, 2011, ISSN 0955-2219
981. Buchner, S., Mikowski, A., Lepienski, C.M., Ferreira, E.B., Zanotto, E.D., Torres, R.D., Soares, P. Mechanical and tribological properties of a sintered glass-ceramic compared to granite and porcelainized stoneware *Wear* 271 (5-6), pp. 875-880, 2011 ISSN 0043-1648
- 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
982. Mei, L., He, G., Wang, L.-L., Liu, G.-H., Li, J.-T. Fabrication of transparent LaAlO₃/t-ZrO₂ nanoceramics through controlled amorphous crystallization *Journal of the European Ceramic Society* 31 (9), pp. 1603-1609, 2011 ISSN 0955-2219
- 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
983. Štrbac, N., Mihajlović, I., Andrić, V., Živković, Ž., Rosić, A., Kinetic investigations of two processes for zinc recovery from zinc plant residue, *Canadian Metallurgical Quarterly* 50 (1), 28-36, 2011, ISSN 0008-4433
- 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
984. Rezvani, M., Marghussian, V.K., Eftekhari Yekta, B. Crystal nucleation and growth rates, time-temperature transformation diagram, and mechanical properties of a SiO₂-Al₂O₃-CaO-MgO-(R₂O) glass in the presence of Cr₂O₃, Fe₂O₃, and TiO₂ nucleants, *International Journal of Applied Ceramic Technology* 8 (1), 152-162, 2011, ISSN1546-542X
985. Keyvani, N., Marghussian, V.K., Rezaie, H.R., Kord, M., Effect of Al₂O₃ content on crystallization behavior, microstructure, and mechanical properties of SiO₂-Al₂O₃-CaO-MgO glass-ceramics, *International Journal of Applied Ceramic Technology* 8 (1), pp. 203-213, 2011, ISSN1546-542X
986. Mello-Castanho, S.R.H., Ferreira, M.C., Acchar, W., Segadães, A.M., Assessment of reuse potential of high alumina industrial waste as devitrification aid in common alumina-lime-silica glasses *Advances in Applied Ceramics* 110 (7), 426-432, 2011, ISSN 1743-6753

- Karamanov A., Pisciella P., Pelino M., "The Crystallisation Kinetics of Iron Rich Glasses in Different Atmospheres", *Journal of European Cer. Soc.*, 20 [12], 2000, 2233-2237, ISSN 0955-2219
987. Wang Zhong-jie; Ni Wen; Li Ke-qing; et al., Crystallization characteristics of iron-rich glass ceramics prepared from nickel slag and blast furnace slag, *International Journal Of Minerals Metallurgy And Materials*, 18, 4, 455-459, DOI: 10.1007/s12613-011-0462-5, AUG 2011, ISSN1674-4799
- Karamanov A., Pisciella P., Cantalini C. and Pelino M., "The Influence of the Fe³⁺ /Fe²⁺ Ratio on the Crystallization of Iron-rich Glasses from Industrial Wastes", *J. Am. Ceram. Society*, 81 [12], 2000, 3153-3157, ISSN 0002-7820
988. Quijorna N, San Miguel G, Andres A , Incorporation of Waelz Slag into Commercial Ceramic Bricks: A Practical Example of Industrial Ecology, *Industrial & Engineering Chemistry Research* Volume: 50 Issue: 9 Pages: 5806-5814 Published: MAY 4 2011, ISSN, 0888-5885
989. ISA HAUWA, Review: A review of glass-ceramics production from silicate wastes, *International Journal of the Physical Sciences* Vol. 6(30), pp. 6781 - 6790, 23 November, 2011 ISSN1992-1950
- Pisciella P., Crisucci S., Karamanov A., Pelino M., "Chemical Durability of Glasses Obtained by Vitrification of Industrial Wastes", *Waste Management*, 21, 2001, 1-9, ISSN0956-053X
990. Hojamberdiev, M., Eminov, A., Xu, Y., Utilization of muscovite granite waste in the manufacture of ceramic tiles, *Ceramics International* 37 (3), 871-876, 2011, ISSN 0272-8842
991. Aslani, A., Arefi, M.R., Babapoor, A., Amiri, A., Beyki-Shuraki, K., Solvothermal synthesis, characterization and optical properties of ZnO, ZnO-MgO and ZnO-NiO, mixed oxide nanoparticles *Applied Surface Science* 257 (11), pp. 4885-4889, 2011, ISSN 0169-4332
992. Ju, S., Zhang, Y., Zhang, Y., Xue, P., Wang, Y. Clean hydrometallurgical route to recover zinc, silver, lead, copper, cadmium and iron from hazardous jarosite residues produced during zinc hydrometallurgy, *Journal of Hazardous Materials* 192 (2), pp. 554-558, 2011, ISSN 0304-3894
- Karamanov A., Pelino M., "Crystallization Phenomena in Iron Rich Glasses" *J. Non-crystalline Solids* ISSN: 0022-3093, 281 [1-3], 2001, 139-151, ISSN 0022-3093
993. Goel, A., Shaaban, E.R., Oliveira, J.B., Sá, M.A., Pascual, M.J., Ferreira, J.M.F. Sintering behavior and devitrification kinetics of iron containing clinopyroxene based magnetic glass-ceramics *Solid State Ionics* 186 (1), 59-68, 2011 ISSN 0167-2738
994. William G. Ramsey, Michael F. Gray, Ronald B. Calmus, and James A. Edge, Next Generation Melter(s) for Vitrification of Hanford Waste: Status and Direction, *Waste Management* 2011, Paper 11049 (11049), 1-16, 2011, ISSN 0956-053X
995. Mendez Guerrero D. Oziel ; Vazquez Mendez B. Alicia ; Alvarez Mendez A. Obtaining a glass-ceramic material from a steel slag mixed with glass cullet, *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, 50, 3, 143-149, MAY-JUN 2011, ISSN 0366-3175
996. Salman S. M. ; Salama S. N., Crystallization And Thermal Expansion Characteristics Of In(2)O(3)-Containing Lithium Iron Silicate-Diopside Glasses, *Ceramics-Silikaty*, 55, 2 , 114-122 , 2011, ISSN 0862-5468
997. Harizanova Ruzha ; Gugov Ivailo ; Ruessel Christian ; et al., Crystallization of (Fe, Mn)-based nanoparticles in sodium-silicate glasses, *Journal Of Materials Science*, 46, 22, 7169-7176, 2011 ISSN 0022-2461
998. Bernardo, E., Dal Maschio, R Glass-ceramics from vitrified sewage sludge pyrolysis residues and recycled glasses . *Waste Management* 31 (11), 2011, 2245-2252 ISSN 0956-053X
- Karamanov A., Pelino, M. "Influence of time-lag on the activation energy in non-isothermal crystallization", *J. Non-crystalline Solids* ISSN: 0022-3093, 290, 2001, 173-179, ISSN 0022-3093

999. Altin, S., Aksan, M.A., Yakinci, M.E., Fabrication of single crystalline Bi-2212 whisker with addition of Sb₂O₃ into the Bi₂Sr₂Ca₂Cu₃O_x system and their thermal, structural and superconducting properties, *Solid State Sciences* 13 (5), pp. 879-886, 2011,ISSN 1293-2558
- Pelino M, Karamanov A., Piscicella P., Zanneti D. Crisucci S, "Vitrification of Electric Arc Furnace Dusts", *Waste Management* 22, 2002, 945-949, ISSN 0956-053X
1000. Machado, A.T., Valenzuela-Diaz, F.R., de Souza, C.A.C., de Andrade Lima, L.R.P. Structural ceramics made with clay and steel dust pollutants, *Applied Clay Science* 51 (4), pp. 503-506, 2011, ISSN 0169-1317
1001. Tien-Chun Chu, Characterization and Crystallization Kinetics of glass-ceramics prepared from a mixture of MSWI fly ash and EAF dust, Graduate Institute of Environmental Engineering, thesis, 06, 15, 2011, ISSN 0304-386X
- Karamanov A., Di Gioacchino R. and al., "Viscosity of iron-rich glasses from industrial wastes", *Glass Technology*, 43, 2002, 34-38, ISSN 0017-1050
1002. Gebavi H, Milanese D, Balda R, et al., Novel Tm³⁺-doped fluorotellurite glasses with enhanced quantum efficiency, *Optical Materials* Volume: 33 Issue: 3 Pages: 428-437 Published: JAN 2011 ISSN 0925-3467
- Karamanov A. , Pelino M., Hreglich A."Sintered Glass-Ceramics from MSW-Incinerator Fly AshesPart I :The influence of the heating rate on the sinter-crystallisation." *Journal of European Cer. Soc.* 23, 2003, 827-832, ISSN 0955-2219
1003. Cheng, T.W., Tu, C.C., Ko, M.S., Ueng, T.H. ,Production of glass-ceramics from incinerator ash using lab-scale and pilot-scale thermal plasma systems, *Ceramics International* 37 (7), pp. 2437-2444 2011, ISSN 0272-8842
1004. Bernardo, E., Dattoli, A., Bonomo, E., Esposito, L., Rambaldi, E., Tucci, A , Application of an industrial waste glass in "glass-ceramic stoneware". *International Journal of Applied Ceramic Technology* 8 (5), 2011, 1153-1162 ISSN 1546-542X
- Karamanov A. , Pelino M., Ferraris M, Metecovitz I, "Sintered Glass-Ceramics from MSW-Incinerator Fly Ashes: Part II. The influence of the particle size and heat-treatment on the properties". *Journal of European Cer. Soc.*, 2003, 1609-16015 ISSN 0955-2219
1005. Da Silveira, F.Z., Pich, C.T., Angioletto, E., Bernardin, A.M. Ecotoxicological analysis of glasses obtained from industrial residues using *E. coli* and *S. aureus* as bioindicators *Materials Science and Engineering C* 31 (2), pp. 276-280, 2011, ISSN 0928-4931
1006. Cheng, T.W., Tu, C.C., Ko, M.S., Ueng, T.H. ,Production of glass-ceramics from incinerator ash using lab-scale and pilot-scale thermal plasma systems, *Ceramics International* 37 (7), pp. 2437-2444 2011, ISSN 0272-8842
- 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
1007. Zhang, W.Y., Gao, H., Xu, Y. Sintering and reactive crystal growth of diopside-albite glass-ceramics from waste glass *Journal of the European Ceramic Society* 31 (9), 1669-1675, 2011, ISSN 0955-2219
- 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
1008. Mihailova I. K.; Djambazki P. R.; Mehandjiev D., The effect of the composition on the crystallization behavior of sintered glass-ceramics from blast furnace slag , *Bulgarian Chemical Communications*, Volume: 43 I, 2 , 293-300, 2011, ISSN 0861-9808
- 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

1009. Zhang, W.Y., Gao, H., Xu, Y. , Sintering and reactive crystal growth of diopside-albite glass-ceramics from waste glass, *Journal of the European Ceramic Society* 31 (9), 1669-1675, 2011, ISSN 0955-2219
1010. Mihailova I. K.; Djambazki P. R.; Mehandjiev D., The effect of the composition on the crystallization behavior of sintered glass-ceramics from blast furnace slag , *Bulgarian Chemical Communications*, 43 I, 2 , 293-300, 2011, ISSN 0861-9808
1011. Abyzov, A.S., Schmelzer, J.W.P., Fokin, V.M. Theory of pore formation in glass under tensile stress: Generalized Gibbs approach, *Journal of Non-Crystalline Solids*, (19-20), pp. 3474-3479, 2011, ISSN 0022-3093
1012. Bernardo, E., Dal Maschio, R Glass-ceramics from vitrified sewage sludge pyrolysis residues and recycled glasses . *Waste Management* 31 (11),2011, 2245-2252, ISSN 0956-053X

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

1013. Faeghi-Nia Crystallization and sintering behavior of phlogopite–soda lime composite, Letter to the Editor, *Journal of Non-Crystalline Solids*, 8, 15, Pages 3385-3391, 2011, ISSN 0022-3093
1014. Abyzov, A.S., Schmelzer, J.W.P., Fokin, V.M. Theory of pore formation in glass under tensile stress: Generalized Gibbs approach, *Journal of Non-Crystalline Solids* pp. 3474-3479, 2011 ISSN 0022-3093

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

1015. Mihailova I. K.; Djambazki P. R.; Mehandjiev D., The effect of the composition on the crystallization behavior of sintered glass-ceramics from blast furnace slag , *Bulgarian Chemical Communications* Volume: 43 I, 2 , 293-300, 2011, ISSN 0861-9808

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

1016. El-Maghraby, H.F., El-Omla, M.M., Bondioli, F., Naga, S.M. Granite as flux in stoneware tile manufacturing, *Journal of the European Ceramic Society* 31 (12), pp. 2057-2063, 2011, ISSN 0955-2219

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

1017. Tian, Y., Zuo, W., Chen, D., Crystallization evolution, microstructure and properties of sewage sludge-based glass-ceramics prepared by microwave heating, *Journal of Hazardous Materials* 196, 370-379, 2011, ISSN 0304-3894

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

1018. Rezvani, M., Marghussian, V.K., Eftekhari Yekta, B. , Crystal nucleation and growth rates, time-temperature transformation diagram, and mechanical properties of a SiO₂-Al₂O₃-CaO-MgO-(R₂O) glass in the presence of Cr₂O₃, Fe₂O₃, and TiO₂ nucleants, *International Journal of Applied Ceramic Technology* 8 (1), 152-162 2011, ISSN 1546-542X
1019. Mohammadi, M., Alizadeh, P., Atlasbaf, Z. Effect of frit size on sintering, crystallization and electrical properties of wollastonite glass-ceramics, *Journal of Non-Crystalline Solids*, pp. 150-156, 2011 ISSN 0022-3093
1020. Faeghi-Nia A., Crystallization and sintering behavior of phlogopite–soda lime composite, Letter to the Editor, *Journal of Non-Crystalline Solids*, 357, 15, Pages 3385-3391, 2011, ISSN 0022-3093

1021. Mihailova I. K.; Djambazki P. R.; Mehandjiev D., The effect of the composition on the crystallization behavior of sintered glass-ceramics from blast furnace slag , Bulgarian Chemical Communications, 43 I, 2 , 293-300, 2011, ISSN 0861-9808
1022. Abyzov, A.S., Schmelzer, J.W.P., Fokin, V.M. Theory of pore formation in glass under tensile stress: Generalized Gibbs approach, Journal of Non-Crystalline Solids, pp. 3474-3479, 2011, ISSN 0022-3093
1023. Goel, A., Rajagopal, R.R., Ferreira, J.M.F., Influence of strontium on structure, sintering and biodegradation behaviour of CaO-MgO-SrO-SiO₂-P₂O₅-CaF₂ glasses, Acta Biomaterialia 7, 2011, 4071-4080, ISSN 1742-7061
1024. Tian, Y., Zuo, W., Chen, D., Crystallization evolution, microstructure and properties of sewage sludge-based glass-ceramics prepared by microwave heating, Journal of Hazardous Materials 196, 370-379, 2011, ISSN 0304-3894

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

1025. Zhang, W.Y., Gao, H., Xu, Y., Sintering and reactive crystal growth of diopside-albite glass-ceramics from waste glass Journal of the European Ceramic Society 31 (9), 2011, 1669-1675, ISSN 0955-2219
1026. Bernardo, E., Bingham, P.A., Sintered silicophosphate glass ceramics from MBM ash and recycled soda-lime-silica glass Advances in Applied Ceramics 110 (1), 2011, 41-48, ISSN 1743-6753
1027. Bernardo, E., Esposito, L., Rambaldi, E., Tucci, A. Sintered glass ceramic articles from Plasma vitrified asbestos containing waste, Advances in Applied Ceramics 110 (6), 2011, 346-352, ISSN 1743-6753

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

1028. Akinci, A., Ercenk, E., Yilmaz, S., Slurry erosion behaviors of basalt filled low density polyethylene composites, Materials and Design 32 (5) 3106-3111, 2011, ISSN 0261-3069
1029. Mehmet Çaliskan, Akın Akinci, Senol Yilmaz and Uğur Sen, Assignment of mechanical properties of basalt-LDPE composite materials using experimental and computer aided simulation methods, Scientific Research and Essays Vol. 6(11), pp. 2315-2324, 4 June, 2011, ISSN 0261-3069

Ergul S., Ferrante F., Piscicella P., Karamanov A. , Pelino M., "Characterization of basaltic tuffs and their applications for the production of ceramic and glass-ceramic materials", Ceramics International, 35, 7, 2009, 2789-2795, ISSN 0272-8842

1030. El-Maghraby, H.F., El-Omla, M.M., Bondioli, F., Naga, S.M. Granite as flux in stoneware tile manufacturing, Journal of the European Ceramic Society 31 (12), pp. 2057-2063, 2011 , ISSN 0955-2219

Karamanov A., Pelino M., Taglieri G., Cantalini C., "Sintered Building Glass-Ceramics based on Jarosite", Proceedings of 18 -th ICG, 1998, The American Ceramic Society (CD)

1031. ISA HAUWA, Review: A review of glass-ceramics production from silicate wastes, International Journal of the Physical Sciences Vol. 6(30), pp. 6781 - 6790, 23 November, 2011, ISSN 19921950

Karamanov A. , Pascova R. , Avramov I. , Gutzow I. , "Determination of Avrami Parameter in the Case of Non-Isothermal Surface Crystallization of Powdered Glasses", Proceedings of 16-th International Conference of Glass and Ceramics, Varna, Bulgaria, 26-30, 09, Varna 2008

1032. Neha Gupta, Anshuman Dalvia, S. Bhardwaj , A.M. Awasthi, Crystallization and glass transition kinetics in Cu⁺ ion substituted Cu_x-Ag_{1-x}I-Ag₂O-V₂O₅ superionic glasses, Journal Of Non-Crystalline Solids Issn: 0022-3093 357 (2011) 1811-1815, Issn 0022-3093

- 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) 1289-1295, ISSN 0272-8842
1033. El-Maghraby, H.F., El-Omla, M.M., Bondioli, F., Naga, S.M., Granite as flux in stoneware tile manufacturing, 2011 *Journal of the European Ceramic Society* 31 (12), 2057-2063, ISSN 0022-3093
1034. Hui, Z., Sun, W., Study of properties of mortar containing cathode ray tubes (CRT) glass as replacement for river sand fine aggregate, 2011, *Construction and Building Materials* 25 (10), pp. 4059-4064 ISSN: 0950-0618
1035. Özer, M.S., Ozturk, A., Timucin, M., Production and characterization of magnesium oxychloride cement bricks for fine polishing of porcelain stoneware tiles 2011 *Industrial Ceramics* 31 (2), pp. 89-98 ISSN 1121-7588
1036. Lassinantti Gualtieri, M., Romagnoli, M., Gualtieri, A.F., Influence of body composition on the technological properties and mineralogy of stoneware: A DOE and mineralogical-microstructural study 2011 *Journal of the European Ceramic Society* 31 (5), pp. 673-685, ISSN 0022-3093
1037. Yot, P.G., Méar, F.O., Characterization of lead, barium and strontium leachability from foam glasses elaborated using waste cathode ray-tube glasses 2011 *Journal of Hazardous Materials* 185 (1), pp. 236-241, ISSN 0304-3894
- J. Kourtev, R. Pascova, E. Weissmantel, "Arc evaporated Ti-N films with reduced macroparticle contamination", *Thin Sol.Films* 287 (1-2) (1996) 202 - 207; ISSN: 00406090
1038. L.-T Duan, D.-M Zhang, L. Guo, Z.-Y. Wang, "Corrosion behavior of TiN-coated titanium as bipolar plates for PEMFC by multi-arc ion plating" *Chinese J. Nonferrous Metals* 21 (1) (2011) 159-164; ISSN: 1004-0609
- N. Jordanov and 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 (2006) 2759. ISSN: 1463-9076
1039. Ben Brahim, F., Bulou, A., Growth and spectroscopy studies of ADP single crystals with l-proline and l-arginine amino acids, *Mater. Chem. Phys.* 130, 1-2 (2011) 24-32. ISSN: 0254-0584
1040. Ehre, D., Fang, K., Aber, J.E., Arnold, S., Ward, M.D., Garetz, B.A., Polymorphism in containerless crystallization, *Crystal Growth and Design* 11, 10 (2011) 4572-4580. ISSN: 1528-7483
1041. Dussault, L., Pelissier, B., Dufaye, F., Gough, S., Hamonne, J., Chaix-Pluchery, O., Sergent, P., Tissier, M., Investigation on full 6" masks using innovative solutions for direct physico-chemical analyses of mask contamination and haze, *Proc. of SPIE - Int. Soc. Optical Eng.* 7985, art. no. 79850O, 2011. ISSN: 0277-786X
- Gutzow, I., Schmelzer, J., Dobрева, A., Kinetics of transient nucleation in glass-forming liquids: A retrospective and recent results, *J. Non-Cryst. Solids* 219 (1997) 1-8. ISSN: 0022-3093
1042. Sinha, I., Mandal, R.K., Avrami exponent under transient and heterogeneous nucleation transformation conditions, *J. Non-Cryst. Solids* 357, 3 (2011) 919-925. ISSN: 0022-3093
1043. Song, L., Qiu, Z., Influence of low multi-walled carbon nanotubes loadings on the crystallization behavior of biodegradable poly(butylene succinate) nanocomposites, *polymer* ISSN: 0032-3861s *Adv. Technol.* 22, 12 (2011) 1642-1649. ISSN: 1042-7147
1044. Liang, G., Xu, J., Xu, W., Shen, X., Bai, Z., Yao, M., Nonisothermal crystallization behaviors and conductive properties of PEO-based solid polymer electrolytes containing yttrium oxide nanoparticles, *Polymer Eng. Sci.* 51, 12 (2011) 2526-2534. ISSN: 0032-3888
1045. Rahmansyah, N., Lo, C.-T., Syu, C.-M., Lee, C.-L., Non-isothermal crystallization of poly(ethylene oxide)/silver nanoplate composites, *Polymer Int.* 60, 9 (2011) 1380-1389. ISSN: 0959-8103

1046. Duan, B., Wang, M., Zhou, W.-Y., Cheung, W.-L., Nonisothermal melt-crystallization behavior of calcium phosphate/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) nanocomposite microspheres, *Polymer Eng. Sci.* 51, 8 (2011) 1580-1591. ISSN: 0032-3888
1047. Lee, S., Hahn, J.R., Ku, B.-C., Kim, J., Effect of carbon nanofiber structure on crystallization kinetics of polypropylene/carbon nanofiber composites, *Bull. Korean Chem. Soc.* 32, 7 (2011) 2369-2376. ISSN: 0253-2964
1048. Antoniadis, G., Paraskevopoulos, K.M., Vassiliou, A.A., Papageorgiou, G.Z., Bikiaris, D., Chrissafis, K., Nonisothermal melt-crystallization kinetics for in situ prepared poly(ethylene terephthalate)/monmorillonite (PET/OMMT), *Thermochim. Acta*, 1-2 (2011) 161-169. ISSN:0040- 6031
1049. Naffakh, M., Díez-Pascual, A.M., Gómez-Fatou, M.A., New hybrid nanocomposites containing carbon nanotubes, inorganic fullerene-like WS₂ nanoparticles and poly(ether ether ketone) (PEEK), *J.Mater. Chem.* 21, 20 (2011) 7425-7433. ISSN: 0959-9428
1050. Naffakh, M., Remškar, M., Marco, C., Gómez-Fatou, M.A., Dynamic crystallization kinetics and nucleation parameters of a new generation of nanocomposites based on isotactic polypropylene and MoS₂ inorganic nanotubes, *J. Phys. Chem. B* 115, 12 (2011) 2850-2856. ISSN: 1089-5647
1051. Saengsuwan, S., Tongkasee, P., Sudyoadsuk, T., Promarak, V., Keawin, T., Jungsuttiwong, S., Non-isothermal crystallization kinetics and thermal stability of the in situ reinforcing composite films based on thermotropic liquid crystalline polymer ISSN: 0032-3861 and polypropylene, *J. Thermal Analysis and Calorimetry* 103, 3 (2011) 1017-1026. ISSN: 1388-6150
1052. Yang, F., Qiu, Z., Preparation, crystallization, and properties of biodegradable poly(butylene adipate-co-terephthalate)/organomodified montmorillonite nanocomposites, *J. Appl. Polymer Sci.* 119, 3 (2011) 1426-1434. ISSN: 0021-8995
1053. Marco, C., Naffakh, M., Gómez, M.A., Santoro, G., Ellis, G., The crystallization of polypropylene in multiwall carbon nanotube-based composites, *polymer Composites* 32, 2 (2011) 324-333. ISSN: 0272-8397
1054. He, F., Fan, J., Lau, S., Chan, L.H., Preparation, crystallization behavior, and dynamic mechanical property of nanocomposites based on poly(vinylidene fluoride) and exfoliated graphite nanoplate, *J. Appl. Polymer Sci.* 119, 2 (2011) 1166-1175. ISSN: 0021-8995
1055. Liu, X., He, A., Du, K., Han, C.C., Nonisothermal crystallization behavior of highly exfoliated polypropylene/clay nanocomposites prepared by in situ polymer ISSN: 0032-3861ization, *J. Appl. Polymer Sci.* 119, 1 (2011) 162-172. ISSN: 0021-8995
1056. Song, L., Qiu, Z., Influence of low multi-walled carbon nanotubes loadings on the crystallization behavior of biodegradable poly(butylene succinate) nanocomposites, *Polymer Adv. Technol.* 22, 12 (2011) 1642-1649. ISSN: 1042-7147
1057. Liang, G., Xu, J., Xu, W., Shen, X., Bai, Z., Yao, M., Nonisothermal crystallization behaviors and conductive properties of PEO-based solid polymer electrolytes containing yttrium oxide nanoparticles, *Polymer Eng. Sci.* 51, 12 (2011) 2526-2534. ISSN: 0032-3888
1058. Jancar, J., Fiore, K., Molecular weight scaling of the spherulite growth rate in isothermally melt crystallized polyethylene nanocomposites, *polymer* 52, 25 (2011) 5851-5857. ISSN: 0032-3861
1059. Rahmansyah, N., Lo, C.-T., Syu, C.-M., Lee, C.-L., Non-isothermal crystallization of poly(ethylene oxide)/silver nanoplate composites, *polymer Int.* 60, 9 (2011) 1380-1389. ISSN: 0959-8103
1060. Duan, B., Wang, M., Zhou, W.-Y., Cheung, W.-L., Nonisothermal melt-crystallization behavior of calcium phosphate/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) nanocomposite microspheres, *polymer Eng. Sci.* 51, 8 (2011) 1580-1591. ISSN: 0032-3888
1061. Lee, S., Hahn, J.R., Ku, B.-C., Kim, J., Effect of carbon nanofiber structure on crystallization kinetics of polypropylene/carbon nanofiber composites, *Bull. Korean Chem. Soc.* 32, 7 (2011) 2369-2376. ISSN: 0253-2964
1062. Antoniadis, G., Paraskevopoulos, K.M., Vassiliou, A.A., Papageorgiou, G.Z., Bikiaris, D., Chrissafis, K., Nonisothermal melt-crystallization kinetics for in situ prepared poly(ethylene

- terephthalate)/monmorillonite (PET/OMMT), *Thermochim. Acta*, 1-2 (2011) 161-169. ISSN:0040- 6031
1063. Naffakh, M., Díez-Pascual, A.M., Gómez-Fatou, M.A., New hybrid nanocomposites containing carbon nanotubes, inorganic fullerene-like WS₂ nanoparticles and poly(ether ether ketone) (PEEK), *J. Mater. Chem.* 21, 20 (2011) 7425-7433. ISSN: 0959-9428
1064. Naffakh, M., Remškar, M., Marco, C., Gómez-Fatou, M.A., Dynamic crystallization kinetics and nucleation parameters of a new generation of nanocomposites based on isotactic polypropylene and MoS₂ inorganic nanotubes, *J. Phys. Chem. B* 115, 12 (2011) 2850-2856. ISSN: 1089-5647
1065. Saengsuwan, S., Tongkasee, P., Sudyoadsuk, T., Promarak, V., Keawin, T., Jungsuttiwong, S., Non-isothermal crystallization kinetics and thermal stability of the in situ reinforcing composite films based on thermotropic liquid crystalline polymer and polypropylene, *J. Thermal Anal. and Calorimetry* 103, 3 (2011) 1017-1026. ISSN: 1388-6150.
1066. Yang, F., Qiu, Z., Preparation, crystallization, and properties of biodegradable poly(butylene adipate-co-terephthalate)/organomodified montmorillonite nanocomposites, *J. Appl. polymer Sci.* 119, 3 (2011) 1426-1434. ISSN: 0021-8995
1067. He, F., Fan, J., Lau, S., Chan, L.H., Preparation, crystallization behavior, and dynamic mechanical property of nanocomposites based on poly(vinylidene fluoride) and exfoliated graphite nanoplate, *J. Appl. polymer Sci.* 119, 2 (2011) 1166-1175. ISSN: 0021-8995
1068. Liu, X., He, A., Du, K., Han, C.C., Nonisothermal crystallization behavior of highly exfoliated polypropylene/clay nanocomposites prepared by in situ polymer lization, *J. Appl. polymer Sci.* 119, 1 (2011) 162-172. ISSN: 0021-8995
- Schmelzer, J.W.P., Gutzow, I., Structural order parameters, the Prigogine-Defay ratio and the behavior of the entropy in vitrification, *J. Non-Cryst. Solids* 355, 10-12 (2009) 653-662. ISSN: 0022-3093
1069. Wang, B., Liu, B., Life properties of hydrogen bonds of DMSO aqueous solution during vitrification, *Huagong Xuebao/CIESC Journal* 62, 6 (2011) 1492-1501. ISSN 0438-1157
- Gutzow, I., Schmelzer, J.W.P., The Third Principle of thermodynamics and the zero-point entropy of glasses: History and new developments, *J. Non-Cryst. Solids* 355, 10-12 (2009) 581-594. ISSN: 0022-3093
1070. Johari, G.P., Specific heat relaxation-based critique of isothermal glass transition, zero residual entropy and time-average formalism for ergodicity loss, *Thermochim. Acta*, 1-2 (2011) 97-104. ISSN: 0040-6031
1071. Johari, G.P., Mechanical relaxation and the notion of time-dependent extent of ergodicity during the glass transition, *Phys. Rev. E - Statistical, Nonlinear, and Soft Matter Physics* 84, 2 (2011) art. no. 021501. ISSN: 1063-651X
1072. Johari, G.P., Aji, D.P.B., Gunawan, L., Clausius limits on cooling and heating through the liquid-glass range of three pharmaceuticals and one metal alloy-annealing effects and residual entropy, *Thermochim. Acta*, 1-2 (2011) 173-181. ISSN: 0040-6031
1073. Lion, A., Peters, J., Kolmeder, S., Simulation of temperature history-dependent phenomena of glass-forming materials based on thermodynamics with internal state variables, *Thermochim. Acta*, 1-2 (2011) 182-193. ISSN: 0040-6031
1074. Johari, G.P., Khouri, J., Entropy change on the cooling and heating paths between liquid and glass and the residual entropy, *J. Chem. Phys.* 134, 3 (2011) art. no. 034515. ISSN: 0021-9606
- Gutzow, I., Schmelzer, J.W.P., Petroff, B., Phenomenological theories of glass transition: Classical approaches, new solutions and perspectives, *J. Non-Cryst. Solids* 354, 2-9 (2008) 311-324. ISSN: 0022-3093
1075. Lion, A., Peters, J., Kolmeder, S., Simulation of temperature history-dependent phenomena of glass-forming materials based on thermodynamics with internal state variables, *Thermochim. Acta*, 1-2 (2011) 182-193. ISSN: 0040-6031

- Gutzow, I., Schmelzer, J.W.P., Petroff, B., The phenomenology of metastable liquids and the glass transition, *J. Eng. Thermophys.* 16, 4 (2007) 205-223. ISSN: 1810-2328
1076. Lion, A., Peters, J., Kolmeder, S., Simulation of temperature history-dependent phenomena of glass-forming materials based on thermodynamics with internal state variables, *Thermochim. Acta*, 1-2 (2011) 182-193. ISSN: 0040-6031
- Schmelzer, J.W.P., Gutzow, I., The Prigogine-Defay ratio revisited, *J. Chem. Phys.* 125, 18 (2006) ISSN: 0021-9606
1077. Gundermann, D., Pedersen, U.R., Hecksher, T., Bailey, N.P., Jakobsen, B., Christensen, T., Olsen, N.B., (...), Niss, K., Predicting the density-scaling exponent of a glass-forming liquid from Prigogine-Defay ratio measurements, *Nature Phys.* 7, 10 (2011) 816-821. ISSN: 1745-2473
1078. Pedersen, U.R., Gnan, N., Bailey, N.P., Schrøder, T.B., Dyre, J.C., Strongly correlating liquids and their isomorphs, *J. Non-Cryst. Solids* 357, 2 (2011) 320-328. ISSN: 0022-3093
1079. Johari, G.P., Mechanical relaxation and the notion of time-dependent extent of ergodicity during the glass transition, *Phys. Rev. E - Statistical, Nonlinear, and Soft Matter Physics* 84, 2 (2011) art. no. 021501. ISSN: 1063-651X
1080. Johari, G.P., Khouri, J., Entropy change on the cooling and heating paths between liquid and glass and the residual entropy, *J. Chem. Phys.* 134, 3 (2011) art. no. 034515. ISSN: 0021-9606
1081. Nascimento, M.L.F., Fokin, V.M., Zanutto, E.D., Abyzov, A.S., Dynamic processes in a silicate liquid from above melting to below the glass transition, *J. Chem. Phys.* 135, 19 (2011) art. no. 194703. ISSN: 0021-9606
1082. Rivera, V.A.G., Osorio, S.P.A., Manzani, D., Messaddeq, Y., Nunes, L.A.O., Marega Jr., E., Growth of silver nano-particle embedded in tellurite glass: Interaction between localized surface plasmon resonance and Er³⁺ ions, *Opt. Mater.* 33, 6 (2011) 888-892. ISSN: 0925-3467
- Schmelzer, J.W.P., Schmelzer Jr., J., Gutzow, I.S., Reconciling Gibbs and van der Waals: A new approach to nucleation theory, *J. Chem. Phys.* 112, 8 (2000) 3820-3831. ISSN: 0021-9606
1083. Philippe, T., Blavette, D., Minimum free-energy pathway of nucleation, *J. Chem. Phys.* 135, 13 (2011) ISSN: 0021-9606
1084. L'vov, P.E., Svetukhin, V.V., Obukhov, A.V., Thermodynamics of phase equilibrium of binary alloys containing nanprecipitates, *Phys. Solid State* 53, 2 (2011) 421-427. ISSN: 1063-7834
- Gutzow, I., Pascova, R., Karamanov, A., Schmelzer, J., The kinetics of surface induced sinter crystallization and the formation of glass-ceramic materials, *J. Mater. Sci.* 33, 21 (1998) 5265-5273. ISSN: 0261-8028
1085. F. He, C. Ping, J. Cheng "Phase Evolutionary Process of CaO-Al₂O₃-SiO₂ System Glass and Glass-ceramic" *Advances in Building Materials, PTS 1-3 Book Series: Adv. Mater. Res.* 168-170 (2011) 1947-1952. ISBN: 978-0-87849-207-7
1086. C. Díaz, M. L. Valenzuela, D. Bravo, C. Dickinson, C. O'Dwyer, "Solid-state synthesis of embedded single-crystal metal oxide and phosphate nanoparticles and in situ crystallization", *J. Colloid Interface Sci.* 362 (1) (2011) 21-32. ISSN: 0021-9797
1087. Y. Tian, W. Zuo, D. Chen, "Crystallization evolution, microstructure and properties of sewage sludge-based glass-ceramics prepared by microwave heating" *J. Hazardous Materials* 196 (2011) 370-379; ISSN: 0304-3894
1088. V.O. Soares, G. R Paula, O. Peitl, E.D. Zanutto, "Effect of ion exchange on the sinter-crystallisation of low expansion Li₂O.Al₂O₃.SiO₂ glass-ceramics", *Glass Technol. Europ. J. Glass Sci. Technol. Part A* 52 (2011) (2) 50-54; ISSN: 00171050

- Möller, J., Schmelzer, J., Gutzow, I., Elastic stress effects on critical cluster shapes, *J. Non-Cryst. Solids* 240, 1-3 (1998) 131-143. ISSN: 0022-3093
1089. Gillot, J., Roskosz, M., Leroux, H., Capet, F., Roussel, P., Crystallization of amorphous silicates far from equilibrium part II: Experimental insight into the key role of decoupled cation mobilities, *J. Non-Cryst. Solids* 357, 19-20 (2011) 3467-3473. ISSN: 0022-3093
- Schmelzer, J., Pascova, R., Möller, J., Gutzow, I., Surface-induced devitrification of glasses: the influence of elastic strains, *J. Non-Cryst. Solids* 162, 1-2 (1993) 26-39. ISSN: 0022-3093
1090. Cai, T., Zhu, L., Yu, L., Crystallization of organic glasses: Effects of polymer ISSN: 0032-3861 additives on bulk and surface crystal growth in amorphous nifedipine, *Pharm. Res.* 28, 10 (2011) 2458-2466. ISSN: 0724-8741
1091. Suna, Y., Zhua, L., Kearnsa, K.L., Edigera, M.D., Yua, L., Glasses crystallize rapidly at free surfaces by growing crystals upward, *Proc. Nat. Acad. Sci. US Am.* 108, 15 (2011) 5990-5995. ISSN 0027-8424
1092. Rivera, V.A.G., Osorio, S.P.A., Manzani, D., Messaddeq, Y., Nunes, L.A.O., Marega Jr., E., Growth of silver nano-particle embedded in tellurite glass: Interaction between localized surface plasmon resonance and Er³⁺ ions, *Opt. Mater.* 33, 6 (2011) 888-892. ISSN: 0925-3467
1093. Fang, Y., Xu, J., Wang, Z., Qian, H., Surface and bulk crystallization kinetics of Er³⁺ doped mixed alkali phosphate glasses, *Adv. Mater. Res.* 146-147 (2011) 1142-1146. ISSN: 1022-6680
- Bartels, J., Lembke, U., Pascova, R., Schmelzer, J., Gutzow, I., Evolution of cluster size distribution in nucleation and growth processes, *J. Non-Cryst. Solids* 136, 3 (1991) 181-197. ISSN: 0022-3093
1094. Tatchev, D., Hoell, A., Eichelbaum, M., Rademann, K., X-ray-assisted formation of gold nanoparticles in soda lime silicate glass: Suppressed Ostwald ripening, *Phys. Rev. Let.* 106, 8 (2011) art. no. 085702. ISSN: 0031-9007
- Schmelzer, J., Gutzow, I., Pascova, R., Kinetics of phase segregation in elastic and viscoelastic media, *J. Cryst. Growth* 104, 2 (1990) 505-520. ISSN: 0022-0248
1095. Fotheringham, U., Wurth, R., Rüssel, C., Thermal analyses to assess diffusion kinetics in the nano-sized interspaces between the growing crystals of a glass ceramics, *Thermochim. Acta*, 1-2 (2011) 144-150. ISSN: 0040-6031
- Schmelzer, J., Pascova, R., Gutzow, I., Cluster growth and Ostwald ripening in viscoelastic media, *Phys. Stat. Sol. (A) Appl. Res.* 117, 2.(1990) 363-375. ISSN: 1862-6319
1096. Fotheringham, U., Wurth, R., Rüssel, C., Thermal analyses to assess diffusion kinetics in the nano-sized interspaces between the growing crystals of a glass ceramics, *Thermochim. Acta*, 1-2 (2011) 144-150. ISSN: 0040-6031
- Pascova, R., Gutzow, I., Schmelzer, J., Model investigation of the process of phase formation in photochromic glasses. Part 2. Theory of phase formation and Ostwald ripening in viscoelastic media, *J. Mater. Sci.* 25, 2 A (1990) 921-931. ISSN: 0261-8028.
1097. Fotheringham, U., Wurth, R., Rüssel, C., Thermal analyses to assess diffusion kinetics in the nano-sized interspaces between the growing crystals of a glass ceramics, *Thermochim. Acta*, 1-2 (2011) 144-150. ISSN: 0040-6031
- Schmelzer, J.W.P., Gutzow, I., Schmelzer Jr., J., Curvature-dependent surface tension and nucleation theory, *J. Colloid Interface Sci.* 178, 2 (1996) 657-665. ISSN: 0021-9797
1098. Cui, Z.-X., Zhao, M.-Z., Lai, W.-P., Xue, Y.-Q., Thermodynamics of size effect on phase transition temperatures of dispersed phases, *J. Phys. Chem. C* 115, 46 (2011) 22796-22803. ISSN: 1932-7447

1099. Xue, Y.-Q., Yang, X.-C., Cui, Z.-X., Lai, W.-P., The effect of microdroplet size on the surface tension and tomlan length, *J. Phys. Chem. B* 115, 1 (2011) 109-112. ISSN 1089-5647
- Schmelzer, J., Möller, J., Gutzow, I., Pascova, R., Müller, R., Pannhorst, W., Surface energy and structure effects on surface crystallization, *J. Non-Cryst. Solids* 183, 3 (1995) 215-233. ISSN: 0022-3093
1100. Banjuraizah, J., Mohamad, H., Ahmad, Z.A., Synthesis and characterization of $x\text{MgO}-1.5\text{Al}_2\text{O}_3-3-5\text{SiO}_2$ ($x = 2.6-3.0$) system using mainly talc and kaolin through the glass route, *Mater. Chem. Phys.* 129, 3 (2011) 910-918. ISSN:0254-0584
1101. Gillot, J., Roskosz, M., Leroux, H., Capet, F., Roussel, P., Crystallization of amorphous silicates far from equilibrium part II: Experimental insight into the key role of decoupled cation mobilities, *J. Non-Cryst. Solids* 357, 19-20 (2011) 3467-3473. ISSN: 0022-3093
- Gutzow, I. Schmelzer, J., *The vitreous state: Thermodynamics, structure, rheology, and crystallization*, Springer Berlin, New York, 1995. ISBN: 3540590870
1102. W. Wisniewski, R. Carl, G. Vo lksch, and C. Ruessel, Mullite Needles Grown from a $\text{MgO}/\text{Al}_2\text{O}_3/\text{TiO}_2/\text{SiO}_2/\text{B}_2\text{O}_3/\text{CaO}$ Glass Melt: Orientation and Diffusion Barriers, *Cryst. Growth Design*, 11, 3 (2011) 784–790. ISSN: 1528-7483
1103. G.P. Johari , D.P.B. Aji, Lina Gunawan, Clausius limits on cooling and heating through the liquid–glass range of three pharmaceuticals and one metal alloy—Annealing effects and residual entropy, *Thermochim. Acta*, 1-2 (2011) 173-181. ISSN: 0040-6031
1104. R. Tournier, Thermodynamic Origin of the Vitreous Transition, *Materials* 4, 5 (2011) 869-892. ISSN 1996-1944
1105. M. Liška and M. Chromčíková, Thermal Properties and Related Structural Study of Oxide Glasses, *Hot Topics in Thermal Analysis and Calorimetry* 8 (2011) 179-197. ISSN: 1571-3105
1106. R. Wurth, C. Rüssel, The crystallization of $(\text{Pb}, \text{Yb}, \text{Er})\text{F}_x$ nano particles from glasses with the composition $20 \text{SiO}_2-13.5 \text{B}_2\text{O}_3-6 \text{Al}_2\text{O}_3-10 \text{PbO}-6.6 \text{CdO} - 20 \text{PbF}_2-13.3 \text{CdF}_2-10 \text{YbF}_3-0.5 \text{ErF}_3$, *Solid State Sci.* 13, 5 (2011) 1132-1136. ISSN: 1293-2558
1107. Z. Černošek, E. Černošková and J. Holubová, Chalcogenide Glasses Selected as a Model System for Studying Thermal Properties, *Glassy, Amorphous and Nano-Crystalline Materials, Hot Topics in Thermal Analysis and Calorimetry* 8 (2011) 141-164. ISSN: 1571-3105
1108. E. G. Merino, C. Rodrigues, M. T. Viciosa, C. Melo, J. Sotomayor, M. Dionísio, and N. T. Correia, Phase Transformations Undergone by Triton X-100 Probed by Differential Scanning Calorimetry and Dielectric Relaxation Spectroscopy, , *J. Phys. Chem. B*, 115, 43 (2011) 12336–12347. ISSN: 1089-5647
1109. W. Wisniewski, C. A. Baptista, M. Müller, G. Völksch, and C. Rüssel, Surface Crystallization of Cordierite from Glass Studied by High-Temperature X-ray Diffraction and Electron Backscatter Diffraction (EBSD), *Cryst. Growth Design*, 11, 10 (2011) 4660–4666. ISSN: 1528-7483
1110. M. Hassaine, M. A. Ramos, Calorimetric studies at low temperatures of glass-forming 1-butanol and 2-butanol, *Physica status solidi (a)* 208, 10 (2011) 2245–2248. ISSN: 1862-6300
1111. M. L. F. Nascimento, A. C. M. Rodrigues, J.-L. Souquet, Free volume and energy barriers to equilibrium viscosity and ionic transport in alkali disilicates, *Phys. Chem. Glasses – Eur. J. Glass Sci. Technol. B* 52, 4 (2011) 157-166(10). ISSN 0031-9090
1112. K. K. Pandey, N. Garg, K. V. Shanavas, S. M. Sharma, and S. K. Sikka, Pressure induced crystallization in amorphous silicon, *J. Appl. Phys.* 109 (2011) 113511. ISSN: 0021-8979
1113. B. Kabtoul, M. A. Ramos, Structural and enthalpy relaxation processes in pure ethanol, *physica status solidi (a)* 208, 10 (2011) 2249–2253. ISSN: 1862-6300
1114. J. González, O. Contreras, C. Power, E. Belandria, Variación del índice de refracción de lubricantes (PDV-Supra Premium SJ) bajo altas presiones: contraste de índice, *Ciencia* 18, 4 (2011) 257 – 264. ISSN 1794-9165

1115. T. B. Schröder, N. Gnan, U. R. Pedersen, N. P. Bailey, and J. C. Dyre, Pressure-energy correlations in liquids. V. Isomorphs in generalized Lennard-Jones systems, *J. Chem. Phys.* 134, 16 (2011) 164505. ISSN: 0021-9606
1116. Ralf Riedel, I-Wei Chen, Christian Rüssel, *Ceramics Science and Technology*, Vol. 1: Structures, Chapter 9. Glass Ceramics: Silica- and Alumina-Based, Wiley-VCH Verl. GmbH & Co. KGaA, 2011. ISBN: 978-3-527-31155-2
1117. M.A. Ramos, B. Kabtoul, M. Hassaine, Calorimetric and thermodynamic study of glass-forming monohydroxy alcohols, *Phil. Mag.* 91, 13-15 (2011) 1847-1856. ISSN: 1478-6435
- J. Kourtev, R. Pascova, E. Weissmantel, “Arc evaporated Ti-N films with reduced macroparticle contamination”, *Thin Sol.Films* 287 (1-2) (1996) 202 - 207; ISSN: 00406090
1118. L.-T Duan, D.-M Zhang, L. Guo, Z.-Y. Wang, “Corrosion behavior of TiN-coated titanium as bipolar plates for PEMFC by multi-arc ion plating” *Chinese J. Nonferrous Metals* 21 (1) (2011) 159-164; ISSN: 1004-0609
- I.Gutzow, D. Kashchiew, I. Avramov, Nucleation and crystallization in glass-forming melts: old problems and new questions, *J. Non-Cryst. Sol.* 73 (1985) 477-499, ISSN: 0021-9606.
1119. M. Chen, A brief overview of bulk metallic glasses: Reviews, *NPG Asia Mater*, 3, 7 (2011) 82–90, ISSN 1884-4049.
- I.Avramov, E. Grantscharova and I. Gutzow, Structural Relaxation in Two Metaphosphate Glasses, *J. Non-Cryst. Sol.* 91 (1987) 386-397, ISSN 0022-3093.
1120. P. Dabas, K. Hariharan, Ionic conductivity and structural relaxation studies on lithium niobophosphate glass (2011) *AIP Conf. Proc.*, 1349 A, 533-534, ISSN: 0021-9568.
- I.Avramov, A. Milchev, Effect of disorder on diffusion and viscosity in condensed systems, *J. Non-Cryst. Sol.* 104 (1988) 253, ISSN: 0022-3093.
1121. Torregrosa Cabanilles, C., Molina-Mateo, J., Meseguer Dueñas, J.M., Gómez Ribelles, A simple model for cooperative and non-exponential processes in non-crystalline polymer *J.L. Journal of Non-Crystalline Solids*, 357 (2) (2011) pp. 367-370, ISSN 0022-3093.
1122. Gonzalez, JAT; Longinotti, MP; Corti, HR, Density scaling of the transport properties of molecular and ionic liquids, *Journal Of Chemical And Engineering Data* 56 (4): 1397-1406 APR 2011 ISSN 0021-9568.
1123. López, E.R., Pensado, A.S., Comuñas, M.J.P., Pádua, A.A.H., Fernández, J., Harris, K.R., Structural aggregates of rod–coil copolymer , *Chem. Phys.* 34, 14 (2011) 305-318 ISSN: 0021-9606.
1124. Guo, JX; Simon, SL, Dynamics Versus T – Tg Scaling, 135, 7 (2011), ISSN: 0021-9606.
- Avramov, I. Gutzow, *J. Non-Cryst. Sol.* 104 (1988) 148, Heating rate and glass transition temperature ISSN 0022-3093
1125. Z. Cernosek, E. Cernoskova, J. Holubova,, in Ed. J. Šesták, J. Máresh, P. Hubik, *Glassy Amorphous and Nano-Crystalline Materials*, Springer (2011) Chapt.9 pp 141-164 Structure and Properties includes twenty-one chapter contributions from an ISSN: 9048128811.
- I. Avramov “Viscosity of glassforming melts”, *J. Non-Cryst. Solids* 238 (1998) 6-10 ISSN 0022-3093.
1126. Angelini, TE; Hannezo, E; Trepap, X; Marquez, M; Fredberg, JJ; Weitz, Syringe-vacuum microfluidics: A portable technique to create, DA, *PROC. Nat. Academy Of Sciences Of Us* 108 (12)(2011) : 4714-4719, ISSN: 1091-6490
- Avramov, N. Avramova, “Kinetics of relaxation and crystallization of poly(ethylene terephthalate)”*J. Non-Crystalline Solids*(1999) ISSN: 0022-3093 260
1127. Ali Salehizadeh, S., Souri, D., The glassy state of the amorphous V2O5–NiO–TeO2 samples, *Journal of Physics and Chemistry of Solids* , 72 (11) (2011) pp. 1381-1385, ISSN: 0022-3697

1128. Kumar, K., Purohit, L.P., Mehra, R.M., Deep, A. Molecular phase separation effects on filter based on dual chirped long-period fiber gratings, 2011, Chalcogenide Letters. ISSN 1584-8663, 8 (11) pp. 659-670.
1129. Papathanassiou, Anthony N. Non-crystalline Zr-Si diffusion barrier for Cu/Si contact system under J. Non-Crystalline Solids (2): 401-403 Sp. Iss. SI JAN 15 2011 ISSN: 0022-3093 357
1130. Grzybowski, A; Grzybowska, K; Paluch, M; Swiety, A; Koperwas, K, 2011 Density scaling of the transport properties of molecular and ionic phosphates *Phys Rev E* 83 (4) ISSN 1550-7998 Print; ISSN 1550-2368 Online; ISSN 1538-
1131. Lopez, Enriqueta R.; Pensado, Alfonso S.; Comunas, Maria J. P.; Padua, Agilio A. H.; Fernandez, Josefa; Harris, Kenneth R., Density scaling of the transport properties of molecular and ionic J. Chem. Phys. ISSN: 0021-9606. ISSN (electronic): 1089-7690 134 (14): Art. No. 144507 APR 14 2011
1132. Grassia, L; Carbone, MGP; Mensitieri, G; D'Amore, A, polymer ISSN: 0032-3861 52 (18): 4011-4020 10.1016/j.polymer ISSN: 0032-3861.2011.06.058 AUG 18 2011 Photochemical tuning of light emission in a conjugated *polymer* ISSN: 0032-3861 containing
- Hoche, T.; Moisescu, C.; Avramov, I.; Russel, C.; Heerdegen, W. D.; Microstructure of SiO₂-Al₂O₃-CaO-P₂O₅-K₂O-F- Glass Ceramics. 1. Needlelike versus Isometric Morphology of Apatite Crystals *Chem. Mater.* (2001); 13(4); 1312-1319 , ISSN 0897-4756
1133. Liu, S., Zhang, Y. Dual-scale porous electrodes for solid oxide fuel, *Advanced Materials Research*, 183-185 (2011) pp. 1626-1630, ISSN: 1022-6680 .
1134. SJ; Zhang, YF, The kinetics of sorption of divalent metal ions onto sphagnum moss *Environmental Biotechnology And Materials Engineering*, PTS 1-3 183-185: 1626-1630 Part 1-3 2011 *SSN*: 1976-3816
1135. Liu, S.J., Zhang, Y.F., He, W., Yue, Y.Z. New polymerized crystalline colloidal array for glucose sensing, *Journal of non-crystalline solids* , 357 (24) (2011) pp. 3897-3900. ISSN: 0022-3093
- I. Avramov, Relativity and Temperature *Russian Journal of Physical Chemistry*, Vol. 77, Suppl. 1, 2003, pp. S179-S182. , ISSN 1990-7931
1136. J. Mares in Ed. J. Šesták, J. Máresh, P. Hubik, *Glassy Amorphous and Nano-Crystalline Materials*, Springer (2011) Chapt.20 pp.327-346 *ISSN*: 1450-5339
- I. Avramov, Viscosity in disordered media, *J. Non-Cryst. Sol.* 351 (2005) 3163 - 3173 , ISSN 0022-3093
1137. Casalini, R; Fragiadakis, D; Roland, CM, Dynamic Heterogeneity and Density Scaling in 1,4-Polyisoprene, *Macromolecules* 44 (17) 2011, 6928-6934, ISSN 0024-9297
1138. Nascimento, MLF; Rodrigues, ACM; Souquet, JL, Physics And Chemistry Of Glasses- European Journal Of Glass Science And Technology Part B 52 (4): 157-166 AUG 2011 ISSN 1089-7690
- Avramov, K. Avramova, C. Russel Statistical mechanics of glass formation in molecular liquids with *J. Cryst. Growth* 285 (2005) 394-399 “New method to analyze data on overall crystallization kinetics, ISSN: 0022-0248
1139. Dantuluri, AKR; Amin, A; Puri, V; Bansal, AK, Pharmaceutical characterization for molecular, particle and bulk level properties *Molecular Pharmaceutics* 8 (3): 814-822 MAY-JUN 2011 ISSN: 0377-0273
1140. J.W.P. Schmelzer, E.D. Zanotto, I. Avramov, V.M. Fokin, “Stress development and relaxation during crystal growth in glass-forming liquids”, *J. Non-Cryst. Sol.* 352 (2006) 434-443, ISSN 0022-3093
- I. Avramov, K. Avramova, The role of interface on molecular mobility of glasses or ‘Can Cathedral Glasses Flow’ *Journal Of Non-Crystalline Solids* ISSN: 0022-3093 353 (2007) 218-220 , ISSN 0022-3093

1141. J. Schmelzer, I. Gutzow, "Glasses and the Glass Transition" Willey-VCH (2011)
- Dimitrov D. I.; Milchev A.; Binder K. Effect of Surface Structure on the Spreading of a PDMS Droplet *Langmuir* Volume 24 Issue 4 2008 Pages 1232-1239 (ISSN 0743-7463.)
1142. Bekou Sofia; Mattia Davide Wetting of nanotubes *Current Opinion in Colloid & Interface Science* Volume 16 Issue 4 2011 Pages 259-265 ISSN 1359-0294
1143. Leoni F.; Kierlik E.; Rosinberg M. L.; Capillary Filling in Microchannels with Wall Corrugations *Langmuir* Volume 27 Issue 13 2011 Pages 8160-8170 (ISSN 0743-7463.)
1144. Constable Andrew N.; Brittain William J. Modification of flow through silica microcapillaries via polymer *Colloids and Surfaces a-Physicochemical and Engineering Aspects* Volume 380 Issue 1-3 2011 Pages 128-134 . (ISSN 0927-7757)
1145. Kierlik E.; Leoni F.; Rosinberg M. L.; et al. Spontaneous imbibition in a slit pore: a lattice-gas dynamic mean *Molecular Physics* Volume 109 Issue 7-10 Special Issue SI 2011 Pages 1143-1157 ISSN 0026-8976. I
- Milchev A; Wittmer JP; Landau DP Monte Carlo Simulations of End-Adsorption of Head-to-Tail *J. Chem. Phys.* Volume 112 Issue 3 2000 Pages 1606-1615 DOI 10.1063/1.480600 ISSN 0021-9606.
1146. Kowalczyk P.; Ciach A.; Gauden P. A.; et al. Equilibrium Clusters in Concentrated Lysozyme Protein Solutions *Journal of Colloid and Interface Science* Volume 363 Issue 2 2011 Pages 579-584 (ISSN 0021-9797.
- Milchev A Polymer depletion interaction between parallel walls *European Physical Journal E* Volume 8 Issue 5 2002 Pages 531-537 ISSN 1292-8941
1147. Wittmer J. P.; Cavallo A.; Xu H.; et al. Scale-Free Static and Dynamical Correlations in Melts of *Journal of Statistical Physics* Volume 145 Issue 4 2011 Pages 1017-1126 ISSN 0022-4715.
- Yamakov V; Milchev A Conformational and Dynamic Properties of Polymer Chains *PhysRevE* Volume 56 Issue 6 1997 Pages 7043-7052 ISSN 1550-2368 Online; I
1148. Bernabei Marco; Moreno Angel J.; Colmenero J. Static and dynamic contributions to anomalous chain dynamics in *Journal of Physics-Condensed Matter* Volume 23 Issue 23 2011 Article Number 234119 ISSN 0953-8984
1149. Bulacu M.; van der Giessen E. Effects of pulling velocity and temperature revealed in polymer pull *EPL I* Volume 93 Issue 6 Article Number 63001 ISSN 0295-5075
- Milchev A; Binder K Direct Measurement of the Wetting Behavior of Individual Carbon *J. Chem. Phys.* Volume 117 Issue 14 2002 Pages 6852-6862 ISSN : 0021-9606.
1150. Vogel Thomas; Bachmann Michael Adsorption of polymers at nanowires *Computer Physics Communications* Volume 182 Issue 9 Special Issue SI 2011 Pages 1928-1931 ISSN 0010-4655
- Bhattacharya S.; Hsu H. -P.; Milchev A.; et al. Adsorption of Multiblock and Random Copolymer Macromolecules I *Volume 41 Issue 8 2008 Pages 2920-2930 ISSN 0024-9297..*
1151. Klushin L. I.; Skvortsov A. M. Unconventional phase transitions in a constrained single polymer *Journal of Physics Mathematical and Theoretical* Volume 44 Issue 47 2011 Article Number 473001 ISSN 1751-8121
1152. Hsu Hsiao-Ping; Grassberger Peter A Review of Monte Carlo Simulations of Polymers with Perm *Journal of Statistical Physics* Volume 144 Issue 3 2011 Pages 597-637 (ISSN 0022-4715.

- Yaneva J; Milchev A; Binder K Dynamics of a Spreading Nanodroplet : A Molecular DynamicMacromolecular Theory and SIMulations Volume 12 Issue 8 2003 Pages 573-581 ISSN 1520-5835
1153. Sedighi Nahid; Murad Sohail; Aggarwal Suresh K. Molecular dynamics simulations of spontaneous Fluid Dynamics Research Volume 43 Issue 1 2011 Article Number 015507 ISSN 1022-1344.
- Dimitrov D. I.; Milchev A.; Binder Kurt; et al. Polymers and Complex Systems J. Chem. Phys. Volume 128 Issue 23 2008 Article Number 234902 ISSN : 0021-9606. I
1154. Chaudhuri Debasish; Mulder Bela Size and shape of excluded volume polymers confined between PhysRevE Volume 83 Issue 3 2011 Article Number 031803 ISSN 1063-651X. I
1155. Matthews R.; Louis A. A.; Yeomans J. M. Off-equilibrium response of grafted polymer chains subject to Molecular Physics Volume 109 Issue 7-10 Special Issue SI Pages 1289-1295 2011 Article Number PII 936987418 ISSN 0026-8976.
- Dubbeldam J. L. A.; Milchev A.; Rostiashvili V. G.; et al. Reply to the comment on 'Anomalous dynamics of unbiased polymer Journal of Physics-Condensed Matter Volume 21 Issue 9 2009 Article Number 098001 (ISSN 0953-8984
1156. Loerscher Christopher; Ala-Nissila Tapio; Bhattacharya Aniket Polymer translocation induced by PhysRevE Volume 83 Issue 1 2011 Article Number 011914 ISSN 1063-651X.
- Bhattacharya S.; Rostiashvili V. G.; Milchev A.; et al. Forced-Induced Desorption of a Polymer Chain Adsorbed on an Macromolecules . Volume 42 Issue 6 2009 Pages 2236-2250 ISSN 0024-9297. I
1157. Klushin L. I.; Skvortsov A. M. Unconventional phase transitions in a Journal of Physics a-Mathematical and theoretical Volume 44 Issue 47 2011 Article Number 473001 ISSN 1751-8121
1158. Sanchez Pedro A.; Cerda Juan J.; Ballenegger Vincent; et al. Semiflexible magnetic filaments near attractive flat surfaces Soft Matter I Volume 7 Issue 5 2011 Pages 1809-1818 ISSN • 1744-683X
- Milchev A; Muller M; Binder K A new boundary-controlled phase transition: Phase separation in anEurophysics Letters Volume 70 Issue 3 2005 Pages 348-354 (ISSN 0295-5075.
1159. Parry Andrew O.; Rascon Carlos Fluid Adsorption at the Base of a Cylinder - ADS Physical Review Letters Volume 107 Issue 20 2011 Article Number 206104(ISSN 0031-9007.
- Corsi A; Milchev A; Rostiashvili VG; et al. Copolymer adsorption kinetics at a selective liquid-liquid interfaceEurophysics Letters Volume 73 Issue 2 2006 Pages 204-210 ISSN 0295-5075.
1160. Palencia Manuel; Rivas Bernabe L. Water-soluble polymer-metal ion interactions Journal of Colloid and Interface Science Volume 363 Issue 2 2011 Pages 682-689 (ISSN (printed) 0021-9797.
1161. Leoni F.; Kierlik E.; Rosinberg M. L.; et al. Spontaneous imbibition in disordered porous solids: a theoretical study of helium in silica aerogels. Langmuir Volume 27 Issue 13 2011 Pages 8160-8170 (ISSN 0743-7463.)
1162. Hyvaluoma J.; Kunert C.; Harting J. Simulations of slip flow on nanobubble-laden surfaces Journal of Physics-Condensed Matter Volume 23 Issue 18 Special Issue SI 2011 Article Number 184106 (ISSN 0953-8984
1163. Kierlik E.; Leoni F.; Rosinberg M. L.; et al. Spontaneous imbibition in a slit pore: a lattice-gas dynamic mean Molecular Physics Volume 109 Issue 7-10 Special Issue SI 2011 Pages 1143-1157 (ISSN 0026-8976. I)

- Binder Kurt; Horbach Juergen; Milchev Andrey; et al. Monte Carlo simulations of phase transitions of systems in nanoscopic confinement. *Computer Physics Communications* Volume 177 Issue 1-2 2007 Pages 140-145 (ISSN 0010-4655)
1164. Delogu Francesco Order-to-disorder phase transitions in nanometre-sized particles *Physica B-condensed Matter* Volume 406 Issue 19 2011 Pages 3564-3567 ISSN 0921-4526.
1165. Shi Rongwei; Shao Jingling; Zhu Xiaolei; et al. Melting and Freezing of Au Nanoparticles Confined *Journal of Physical Chemistry C* Volume 115 Issue 7 2011 Pages 2961-2968 (ISSN 19327447, 19327455.)
- Milchev A.; Dirmirova D. I.; Binder K. Excess free energy of nanoparticles in a polymer Issue 17 Pages 2008 3611-3618 ISSN: 0032-3861
1166. Halperin A.; Kroeger M. The effect of solvent quality *Macromolecules* Volume 44 Issue 17 2011 Pages 6986-7005 ISSN 0024-9297
1167. Halperin A.; Kroeger M.; Zhulina E. B. Atomic Force Microscopy of Polymer Brushes *Macromolecules* Volume 44 Issue 9 2011 Pages 3622-3638 ISSN (Printed)
- Milchev A.; Egorov S. A.; Binder K. Spherical polymer brushes under good solvent conditions *J. Chem. Phys.* Volume 132 Issue 18 2010 Article Number 184905 ISSN 0021-9606.
1168. Emborsky Christopher P.; Feng Zhengzheng; Cox Kenneth R.; et al. Time-frequency analysis of classical trajectories of polyatomic *Fluid Phase Equilibria* Volume 306 Issue 1 Special Issue SI 2011 Pages 15-30 (ISSN 0378-3812.)
1169. Ilnytskyi Jaroslav M.; Patsahan Taras; Sokolowski Stefan Nanostructures in a binary mixture confined in slit-like pores with Volume 134 Issue 20 2011 Article Number 204903 ISSN 0021-9606.
1170. Borowko M.; Sokolowski S.; Staszewski T. Changes in the structure of tethered chain molecules as predicted *Journal of Colloid and Interface Science* Volume 356 Issue 1 2011 Pages 267-276 ISSN 0021-9797
1171. Borowko M.; Patrykiewicz A.; Rzyzko W.; et al. Changes in the structure of tethered chain molecules as predicted *J. Chem. Phys.* Volume 134 Issue 4 2011 Article Number 044705 ISSN 0021-9606.
- Popova Hristina; Milchev Andrey Defect dynamics in crystalline buckled membranes *PhysRevE* Volume 77 Issue 4 2008 Article Number 041906 ISSN 1063-651X.
1172. Pezzutti Aldo D.; Vega Daniel A. Defect dynamics in crystalline buckled membranes *PhysRevE. I* 84 1 2011 011123 ISSN 1063-651X
- Bhattacharya S.; Rostiashvili V. G.; Milchev A.; et al. Dynamical scaling exponents for polymer translocation through a *PhysRevE* Volume 79 Issue 3 2009 Article Number 030802 ISSN 1550-7998
1173. Klushin L. I.; Skvortsov A. M. Unconventional phase transitions in a *Journal of physics A-Mathematical and Theoretical* 44 47 2011 473001 ISSN 1751-8121
1174. Vidanovic I.; Arsenijevic S.; Elezovic-Hadzic S. Force-induced desorption of self-avoiding walks on Sierpinski *European Physical Journal B* Volume 81 Issue 3 2011 Pages 291-302 ISSN 1434-6036 .
- Yaneva J.; Dimitrov D. I.; Milchev A.; et al. Absorption and engulfing transitions in nanoparticle infiltration into *Journal of Colloid and Interface Science* Volume 336 Issue 1 2009 Pages 51-58 ISSN 0021-9797.
1175. Halperin A.; Kroeger M. The effect of interbranch spacing on structural and rheological *Macromolecules* I Volume 44 Issue 17 2011 Pages 6986-7005 DOI 10.1021/ma201006h ISSN 0024-9297.
1176. Halperin A.; Kroeger M.; Zhulina E. B. The effect of solvent quality *Macromolecules* Volume 44 Issue 9 2011 Pages 3622-3638 DOI 10.1021/ma200068d ISSN 0024-9297.

- Chibbaro S.; Costa E.; Dimitrov D. I.; A. Milchev Method for wettability characterization based on contact line pinning *Langmuir* Volume 25 Issue 21 2009 Pages 12653-12660 (ISSN 0743-7463.)
1177. Leoni F.; Kierlik E.; Rosinberg M. L.; et al. Spontaneous imbibition in disordered porous solids: a theoretical *Langmuir* Volume 27 Issue 13 2011 Pages 8160-8170 (ISSN 0743-7463.)
1178. Leonforte F.; Servantie J.; Pastorino C.; et al. Citebase - Shear rate threshold for the boundary slip in dense *Journal of Physics-Condensed Matter* Volume 23 Issue 18 Special Issue SI 2011 Article Number 184105 ISSN 0953-8984
1179. Kierlik E.; Leoni F.; Rosinberg M. L.; et al. Platinum-Based Chemotherapy plus Cetuximab in Head and Neck *Molecular Physics*)Volume 109 Issue 7-10 Special Issue SI 2011 Pages 1143-1157 (ISSN 0026-8976.
1180. Vulto Paul; Podszun Susann; Meyer Philipp; et al. Phaseguides: a paradigm shift in microfluidic priming and emptying *LAB ON A CHIP* Volume 11 Issue 9 Pages 2011 1596-1602 ISSN 1473-0197.
1181. Zhang Junfeng Numerical modeling of electrowetting transport processes for digital *Microfluidics and Nanofluidics* Volume 10 Issue 1 2011 Pages 1-28 (ISSN 1613-4982
- Pereyra V; Milchev A; Fleurov V, Kinetics of Simple Reactions in a Dichotomic Barrier Model, *Physical Review E* 50 6 1994 4636-4645 iISSN 1550-7998
1182. Torrez Herrera J. J.; Ranzuglia G. A.; Manzi S. J.; et al. One-dimensional diffusion: Discrepancy between exact results *PhysRevE Print*; 84 5 2011 Article Number 051102 iISSN 1550-7998
- Popova Hristina; Milchev Andrey Structure, dynamics, and phase transitions of tethered membranes *J. Chem. Phys.*-7690 Volume 127 Issue 19 2007 Article Number 194903 ISSN 0021-9606.
1183. Karalus Steffen; Janke Wolfhard; Bachmann Michael Thermodynamics of polymer adsorption to a flexible membrane *PhysRevE* 84 3 2011 Art Num 031803 ISSN 1063-651X.
- Bhattacharya S.; Milchev A.; Rostiashvili V. G.; et al. Stretching of a chain polymer adsorbed at a surface *European Physical Journal E* 29 3 2009 Pages 285-297 ISSN 1292-8941
1184. Chen Jeff Z. Y. Waveguides induced by photorefractive screening solitons *PhysRevE*. 84 4 2011 ISSN 1063-651X
- Milchev Andrey *Journal of Physics-Condensed Matter* Single-polymer dynamics under constraints: scaling theory Volume 23 Issue 10 2011 Article Number 103101 ISSN 0953-8984
1185. Cohen Jack A.; Chaudhuri Abhishek; Golestanian Ramin Markov Chain Modeling of Polymer Translocation Through Pores *Physical Review Letters* 107 23 2011 238102 ISSN 0031-9007.
1186. Cao Wei-Ping; Sun Li-Zhen; Wang Chao; et al. Monte Carlo simulation on polymer *J. Chem. Phys.* 135 17 2011 174 901 ISSN 0021-9606.
1187. Carlsson T.; Artega G. A.; Sundberg J.; et al. Off-equilibrium response of grafted polymer chains subject to *Physical Chemistry Chemical Physics* 13 24 2011 11757-11765 ISSN 1463-9076 I
- Yaneva J; Dunweg B; Milchev A Non-Fickian interdiffusion of dynamically asymmetric species *J. Chem. Phys.* 122 20 2005 204 105 ISSN 0021-9606.
1188. Mansour Andrew Abi; Al Ghouli Mazen Scaling and crossover dynamics in the hyperbolic reaction-diffusion *PhysRevE* 84 2 2011 026107 ISSN 1550-7998

- Dimitrov D. I.; Milchev A.; Binder K. Method for wettability characterization based on contact line pinning *PhysRevE* 81 4 2010 1095-3787 iISSN 1550-7998
1189. Koishi Takahiro; Yasuoka Kenji; Fujikawa Shigenori; et al. Coexistence and transition between Cassie and Wenzel state on *ACS NANO* 5 9 2011 6834-6842 (ISSN 1936-0851.)
- Dubbeldam J. L. A.; Rostiashvili V. G.; Milchev A.; et al. Out-of-equilibrium characteristics of a forced translocating chain *PhysRevE* 83 1 2011 011 802 iISSN 1550-7998
1190. Sandev Trifce; Tomovski Zivorad; Dubbeldam Johan L. A. Generalized Langevin equation with a three parameter Mittag-Leffler *Physica A-Statistical Mechanics and its Applications* 390 21-22 2011 3627-3636 (ISSN 0378-4371.)
1191. Mondaini Felipe; Monconi L. Markov chain modeling of polymer *J. Chem. Phys.* 135 11 2011 114 902 ISSN 0021-9606.
1192. Lu Bo; Albertorio Fernando; Hoogerheide David P.; et al. Probable loss of chlorophyll-derived pigments during passage *Biophysical Journal* Volume 101 Issue 1 2011 Pages 70-79 ISSN 0006-3495.
- Dimitrov Dimitar I.; Milchev Andrey; Binder Kurt Liquid crystal transitions induced by spherical particles *Macromolecular Theory and Simulations* 17 6 2008 313-318 ISSN 1022-1344.
1193. Leonforte F.; Servantie J.; Pastorino C.; et al. Shear rate threshold for the boundary slip in dense *Journal of Physics-Condensed Matter* 23 18 SI 184105 184105 ISSN 0953-8984
- Milchev A.; Dimitrov D. I.; Binder K. Polymer brushes with nanoinclusions under shear: A molecular *Biomicrofluidics* 4 3 2010 032202 ISSN 1089-7690
1194. Spirin L.; Galuschko A.; Kreer T. Response to shear inversion of polymer brushes with embedded colloids *Macromolecules* 44 23 2011 9399-9410 SSN 0024-9297.
- Paturej J.; Milchev A.; Rostiashvili V. G.; et al. Tension enhancement in branched macromolecules upon adhesion *EPL* 94 4 2011 48003 48003 ISSN 0295-5075
1195. Kim Kiwoong; Ghosh Abhijit; Lee Kwang Soon; et al. Molecular Dynamics Study of the Role of Friction on the Thermal *Macromolecular Research* 19 11 2011 Pages 1192-1194 ISSN 1598-5032
1196. Ghosh A.; Lee Won Bo Thermal rupture of linear alternate copolymers: A molecular *J. Chem. Phys.* 135 8 2011 084903 084903 ISSN 0021-9606.
- Milchev A; Brankov J; Pereyra VD Necessary criterion for distinguishing true superdiffusion from *PhysRevE* 58 4 1998 4299-4306 ISSN 1063-651X
1197. Tarasenko A.; Jastrabik L. Diffusion of particles over dynamically disordered lattice *Physical Chemistry Chemical Physics* 13 6 2011 Pages 2300-2306 ISSN 1463-9076 IS
- Lo Verso Federica; Egorov Sergei A.; Milchev Andrey; et al. Interactions between polymer brush-coated spherical nanoparticles *J. Chem. Phys.* 133 18 2010 1089-7690 ISSN 0021-9606.
1198. Mendoza Carlos I. Observations of large stratospheric ozone variations *J. Chem. Phys.* 135 5 2011 1089-7690 ISSN 0021-9606.
- Milchev Andrey; Paturej Jaroslaw; Rostiashvili Vakhtang G.; et al. Thermal Degradation of Adsorbed Bottle-Brush *Macromolecules* *Macromolecules* Volume 44 Issue 10 2011 Pages 3981-3987 ISSN 0024-9297.
1199. Kim Kiwoong; Ghosh Abhijit; Lee Kwang Soon; et al. Molecular Dynamics Study of the Role of Friction on the Thermal *Macromolecular Research* Volume 19 Issue 11 2011 Pages 1192-1194 ISSN 1598-5032
1200. Ghosh A.; Lee Won Bo Thermal rupture of linear alternate copolymers: A molecular. *J. Chem. Phys.* 135 8 2011 1089-7690 ISSN 0021-9606.

- Paturej J.; Milchev A.; Rostiashvili V. G.; et al. J. Chem. Phys. Tension enhancement in branched macromolecules upon adhesion Volume 134 22 2011 1089-7690 ISSN 0021-9606.
1201. Kim Kiwoong; Ghosh Abhijit; Lee Kwang Soon; et al. Thermal rupture of linear alternate copolymers: A molecular Macromolecular Research 11 19 Pages 1192-1194(2011 ISSN 1598-5032
1202. Ghosh A.; Lee Won Bo Thermal rupture of linear alternate copolymers: A molecular J. Chem. Phys.135 8 2011 08490 ISSN 0021-9606.
- Dimitrov D I; Milchev A; Binder K Polymer brushes with nanoinclusions under shear: A molecular The J. Chem. Phys. 8 084905 084905 2007 ISSN 0021-9606
1203. Zuo Chuncheng; He Hongwei; Cao Qianqian *The Synthesis of High Molecular Weight Block Acta polymer* 2 2011Pages 198-202 ISSN: 0032-3861
- Popova Hristina; Milchev Andrey J. Chem. Phys. 129 (21) pp. 215103-215103 Adsorption of self-avoiding tethered membranes: A Monte Carlo simulation study ISSN (printed): 0021-9606. ISSN (electronic): 1089-7690
1204. Karalus Steffen; Janke Wolfhard; Bachmann Michael hermodynamics of polymer adsorption to a flexible membrane, PhysRevE, 84 (3) 2011 031803 T ISSN 1550-7998 Print; ISSN 1550-2368
1205. Reith D.; Milchev A.; Virnau P.; et al. Imulation of binary fluids exposed to selectively adsorbing walls: a method to estimate contact angles and line tensions, European Physics Letters 95 (2) 2011, 1043-1056 ISSN 0295-5075
1206. Rosa Angelo; Orlandini Enzo; Tubiana Luca; et al. Chain Dynamics of Ring and Linear Polyethylene Melts from Macromolecules, 44 (7), p 2011 p 2311–2315 ISSN
- Avramova, K. Kinetics of overall phase transition in changing size system Crystal Research and Technology 37 (5) 2002 , pp. 491-500 ISSN: 1521-4079
1207. Georgiev, G., Schoen, S., Ivy, D., Wielgus, L., Cabrera, Y., Cebe, P. Crystallization kinetics in isotactic polypropylene films with carbon nanotubes Materials Research Society Symposium Proceedings 1312 , 2011 pp. 479-484 ISSN: 0272-9172
- Avramova, K., Milchev, A. Polymer chains in a soft nanotube: A Monte Carlo Study 2006 Journal of Chemical Physics 124 (2) , art. no. 024909 , pp. 1-8 ISSN 0021-9606
1208. Zhao, H., Simon, Methyl methacrylate polymerization in nanoporous confinement, S.L. Polymer 52 (18) , 2011 pp. 4093-4098 ISSN: 0032-3861
1209. Yang, Z., Zhang, D., Zhang, L., Hongping, C., Ateeq-Ur-Rehman, Liang, H. Local coil-helix transition of semiflexible polymers confined in spheres Soft Matter 7 (15) , 2011 pp. 6836-6843 ISSN · 1744-683X