

Списък на публикациите за 2014 година на Институт по физикохимия
„Акад. Ростислав Каишев”

(1) Научни статии с IF или SJR

1. Golvano-Escobal, B. Ozkale, S. Surinach, M.D. Bari, T. Dobrovolska, I. Krastev, S. Pane, J. Sort, E. Pellicer, Self-organized spatio-temporal micropatterning in ferromagnetic Co-In films, *J. Mater. Chem. C* 2, 2014, 8259-8269, ISSN: 2050-7534, **IF 6.626**
2. B. Geboes, I. Mintsouli, B. Wouters, J. Georgieva, A. Kakaroglou, S. Sotiropoulos, E.Valova, S. Armyanov, T. Breugelmans, A. Hubin, Surface and Electrochemical Characterisation of a Pt-Cu/C Core-Shell Electrocatalyst Prepared by Galvanic Displacement, *Applied Catalysis B: Environmental* 150–151, 2014, 249–256, ISSN: 0926-3373, **IF 6.007**
3. A. Milchev, M. Mueller, L. Klushin, Arm retraction dynamics and bistability of a three-arm star polymer in a nanopore, *Macromolecules* 47, 2014, 2156-2168, ISSN: 0024-9297, **IF 5.927**
4. J. Zidek, J.Jancar, A.Milchev, and Th. Vilgis, **Error! Hyperlink reference not valid.**, *Macromolecules* 47, ISSN: 0024-9297, **IF 5.927**
5. P. Tchoukov, F. Yang, Z. Xu, T. Dabros, J. Czarnecki, J. Sjöblom, Role of Asphaltenes in Stabilizing Thin Liquid Emulsion Films, *Langmuir*, 30, 2014, 3024-3033. ISSN 0743-7463, **IF 4.384**
6. G.A. Georgiev, N. Yokoi, S. Ivanova, V. Tonchev, Y. Nenecheva, R. Krastev, Surface relaxations as a tool to distinguish the dynamic interfacial properties of films formed by normal and diseased meibomian lipids, *Soft Matter* 10, 2014,5579-5588, ISSN: 1744-683X, **IF 4.151**
7. A. Milchev, S.A. Egorov, K. Binder, Critical adsorption of a single macromolecule in polymer brushes, *Soft Matter* 10, 2014,5974-5990, ISSN: 1744-683X, **IF 4.151**
8. J. Paturej, J.L.A. Dubbeldam, V.G. Rostiashvili, A. Milchev, T.A. Vilgis, Force spectroscopy of polymer desorption: Theory and molecular dynamics simulations, *Soft Matter* 10, 2014, 2785-2799, ISSN: 1744-683X, **IF 4.151**
9. A.Milchev, K. Binder, Unconventional ordering behavior of semi-flexible polymers in dense brushes under compression, *Soft Matter* 10, 2014, 3783-3797, ISSN: 1744-683X, **IF 4.151**
10. V. Lyutov, I. Efimov, A. Bund, V. Tsakova, Electrochemical polymerization of 3,4-ethylenedioxythiophene in the presence of dodecylsulfate and polysulfonic anions - An acoustic impedance study, *Electrochim. Acta* 122, 2014, 21-27, ISSN: 0013-4686, **IF 4.086**

11. T. Tabakova, L. Ilieva, P. Petrova, A.M. Venezia, G. Avdeev, R. Zanella, Y. Karakirova, Complete benzene oxidation over mono and bimetallic au-pd catalysts supported on Fe-modified ceria, *Chem. Eng. J.* 260, 2014,133-141, ISSN: 1385-8947, **IF 4.058**
12. D.M. Camacho Corzo, A. Borissova, R.B. Hammond, D. Kashchiev, K.J. Roberts, K. Lewtas, I. More, Nucleation mechanism and kinetics from the analysis of polythermal crystallisation data: Methyl stearate from kerosene solutions, *Crystengcomm* 16, 2014, 974-991 , ISSN: 1466-8033, **IF 3.858**
13. A.M. Zhivkov, R.P. Hristov, Electric polarizability dispersion of alumina particles with adsorbed carboxymethyl cellulose, *RSC Adv.* 4, 2014, 2715-2728, ISSN: 2046-2069, **IF 3.78**
14. N.A. Garcija, M. Febbo, D.A. Vega, A. Milchev, Star polymers rupture induced by constant forces, *J Chem. Phys.* 141, 2014, ISSN: 0021-9606, **IF 3.377**
15. J. Paturej, A. Erbas, A. Milchev, and V.G. Rostiashvili, Detachment of semiflexible polymer chains from a substrate - a molecular dynamics investigation, *J. Chem. Phys.* 141, 214902, 2014, ISSN: 0021-9606, **IF 3.377**
16. J. Sarabadani, A. Milchev, T.A. Vilgis, Structure and dynamics of polymer melt confined between two solid surfaces: A molecular dynamics study, *J. Chem. Phys.* 141, 2014, ISSN: 0021-9606, **IF 3.377**
17. R. Berger, K. Binder, G. Diezemann, J. Gauss, M. Helm, H.-P. Hsu, A. Janshoff, T. Metzroth, I. Mey, A. Milchev, W. Paul, V. G. Rostiashvili, T. A. Vilgis, Mechanical Properties of Single Molecules and Polymer Aggregates, in "From Single Molecules to Nanoscopically Structured Materials", *Advances in Polymer Science*, Volume 260, 2014, pp 1-60, ISBN: 978-3-319-05827-6, **IF 3.674**
18. D. Kashchiev, Kinetics of protein fibrillation controlled by fibril elongation, *Proteins Struct.Funct.Bioinformatics* 82, 2014, 2229-2239, ISSN: 0887-3585, **IF 2.91**
19. J. Georgieva, S. Sotiropoulos, E. Valova, S. Armyanov, N. Karanasios, Methanol oxidation and photo-oxidation at Pt/WO₃ electrocatalysts on graphite substrates, *J. Electroanal. Chem.* 727, 2014, 135-140, ISSN: 1572-6657, **IF 2.871**
20. E. Pensini, D. Harbottle, F. Yang, P. Tchoukov, Z. Li, I. Kailey, J. Behles, J. Masliyah and Z. Xu, Demulsification mechanism of asphaltene-stabilized water-in-oil emulsions by a polymeric EO-PO demulsifier, *Energy Fuels*, 28, 2014, 6760-6771. ISSN 0887-0624, **IF 2.733**
21. F. Yang, P. Tchoukov, E. Pensini, T. Dabros, J. Czarnecki, J. Masliyah, Z. Xu, Asphaltene sub-fractions responsible for stabilizing water-in-crude oil emulsions: Part I. Interfacial behaviors, *Energy Fuels*, 28, 2014, 6897-6904. ISSN 0887-0624, **IF 2.733**
22. Y.Y. Hervieu, I. Markov, Kinetics of second layer nucleation with permeable steps, *Surf. Sci* 628, 2014, 76-81, ISSN: 0039-6028, **IF 2.538**
23. V. Milkova, K. Kamburova, T. Radeva, Electro-optics of polyelectrolyte multilayers on colloidal particles, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 502-509, ISSN: 0927-7757, **IF 2.354**

24. D. Arabadzhieva, P. Tchoukov, B. Soklev, E. Mileva, Interfacial layer properties and foam film drainage kinetics of aqueous solutions of hexadecyltrimethylammonium chloride, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014,28-37, ISSN: 0927-7757, **IF 2.354**
25. D. Kosior, J. Zawala, R. Todorov, D. Exerowa, K. Malysa, Bubble bouncing and stability of liquid films formed under dynamic and static conditions from n-octanol solutions, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 391-400, ISSN: 0927-7757, **IF 2.354**
26. E. Mileva, B. Radoev, R. Miller, ECIS 2013: 27th Conference of the European Colloid and Interface Society, September 01-06, 2013, Sofia, Bulgaria, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 1-2, ISSN: 0927-7757, **IF 2.354**
27. A.Y. Gyurova, S.V. Stoyanov, E. Mileva, Interaction of four-antennary oligoglycines and lipopolysaccharides in aqueous media, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 130-136, ISSN: 0927-7757, **IF 2.354**
28. V. Milkova, Polyelectrolyte/nanoparticle hybrid films on anisometric colloids studied by electro-optics, *Colloids Surf. A Physicochem. Eng. Asp.* 455, 2014, 156-163, ISSN: 0927-7757, **IF 2.354**
29. G. Gochev, I. Retzlaff, D. Exerowa, R. Miller, Electrostatic stabilization of foam films from β -lactoglobulin solutions, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 272-279, ISSN: 0927-7757, **IF 2.354**
30. K. Kamburova, V. Milkova, T. Radeva, Polyelectrolyte coatings on hematite nanoparticles impregnated with corrosion inhibitor benzotriazole, *Colloids Surf. A Physicochem. Eng. Asp.* 462, 2014,237-243, ISSN: 0927-7757, **IF 2.354**
31. L. Alexandrova, L. Grigorov, Studying three phase contact in the system air/DMPC water dispersion/silica, *Colloids Surf. A Physicochem. Eng. Asp.* 457, 2014, 455-461, ISSN: 0927-7757, **IF 2.354**
32. S.P. Stoylov, Stable colloids at isoelectric point: Dipolar vs electrostatic interactions, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 516-518. ISSN: 0927-7757, **IF 2.354**
33. A. Terziyski, L. Alexandrova, I. Stoineva, N. Christova, R. Todorov, R. Cohen, Foam and wetting films from rhamnolipids produced by *Pseudomonas aeruginosa* BN10, *Colloids Surf. A Physicochem. Eng. Asp.* 460, 2014, 299-305, ISSN: 0927-7757, **IF 2.354**
34. M. Radoeva, M. Monev, I.T. Ivanov, G.S. Georgiev, B. Radoev, "Adhesion improvement of electroless copper coatings by polymer additives", *Colloids Surf. A: Physicochemical and Engineering Aspects*, 460, 2014, 441-447, ISSN: 0927-7757; **IF 2.354**
35. I. Avramov, Role of surface in apparent viscosity of glasses, *Phys. Rev. E Stat. Nonlinear Soft Matter Phys.* 89, 2014, ISSN: 1539-3755, **IF 2.32**
36. A. Milchev, K. Binder, Polymer absorption in dense polymer brushes vs. polymer adsorption on the brush-solvent interface, *EPL* 106, 2014, ISSN: 0295-5075, **IF 2.269**
37. A. Rodriguez-Rivas , J.M. Romero-Enrique, L.F. Rull , A. Milchev, Observation of a tricritical wedge filling transition in the 3D Ising model, *EPL* 108, 2014, ISSN: 0295-5075, **IF 2.269**

38. Y. Alzahrani, L. Alhamed, S. Petrov, S. Armyanov, E. Valova, J. Georgieva, J. Dille, Mechanical and corrosion behavior of amorphous and crystalline electroless Ni-W-P coatings, *J. Solid. State Electrochem.* 18, 2014, 1951-1961, ISSN: 1432-8488, **IF 2.234**
39. I. Avramov, J. Šesták, “Generalized kinetics of overall phase transition explicit to crystallization” *J. Therm. Analysis Calorim.*, 2014, 118, Issue 2, 1715-1720, ISSN: 1388-6150, **IF 2.206**
40. P.A. Atanasov, N.N. Nedyalkov, E.I. Valova, Z.S. Georgieva, S.A. Armyanov, K.N. Kolev, S. Amoruso, X. Wang, R. Bruzzese, M. Sawczak, G. Sliwinski, Fs-laser processing of polydimethylsiloxane, *J. Appl. Phys.* 116, 2014, ISSN: 0021-8979, **IF 2.185**
41. J. Georgieva, E. Valova, I. Mintsouli, S. Sotiropoulos, S. Armyanov, A. Kakaroglou, A. Hubin, O. Steenhaut, J. Dille, Carbon-supported Pt(Cu) electrocatalysts for methanol oxidation prepared by Cu electroless deposition and its galvanic replacement by Pt, *J. Appl. Electrochem.* 44, 2014, 215-224, ISSN: 0021-891X , **IF 2.147**
42. S. Cherneva, R. Iankov, N. Radic, B. Grbic, D. Stoychev, Nanoindentation investigation of mechanical properties of ZrO₂, ZrO₂-Y₂O₃, Al₂O₃ and TiO₂ thin films deposited on stainless steel OC 404 substrate by spray pyrolysis, *Mater. Sci. Eng. B* 183. 2014, 12-16, **IF 2.122**
43. O. Dimitrov, D. Nesheva, V. Blaskov, I. Stambolova, S. Vassilev, Z. Levi, V. Tonchev, Gas sensitive ZnO thin films with desired (002) or (100) orientation obtained by ultrasonic spray pyrolysis, *Materials Chem. Phys.* 148, 2014, 712-719, ISSN: 0254-0584, **IF 2.129**
44. D. Goranova, G. Avdeev, R. Rashkov, Electrodeposition and characterization of Ni-Cu alloys, *Surf. Coat. Technol.* 240, 2014, 204-210, ISSN: 0257-8972, **IF 1.941**
45. J. Sarabadani, A. Milchev, A. De Virgiliis, Th. A. Vilgis, Molecular dynamic study of the structure and dynamics of polymer melt at solid surfaces, *Soft Materials*, Volume 12, Supplement 1, 2014 Special Issue: *Polymer Interfaces and Interphases*, S56-S70, ISSN: 1539-445X , **IF 1.740**
46. R. Harizanova, C. Bocker, G. Avdeev, C. Ruessel, I. Gugov, Crystal growth and dielectric properties of BaTiO₃ obtained in aluminoborosilicate glasses, *J. Non. Crystl. Solids* 401, 2014, 191-196, ISSN: 0022-3093, **IF 1.716**
47. A. Karamanov, L. Maccarini Schabbach, E. Karamanova, F. Andreola, L. Barbieri, B. Ranguelov, G. Avdeev, I. Lancellotti, Sinter-crystallization in air and inert atmospheres of a glass from pre-treated municipal solid waste bottom ashes, *J. Non Cryst. Solids* 389, 2014,50-59, ISSN: 0022-3093, **IF 1.716**
48. V.S. Raghuwanshi, R. Harizanova, S. Haas, D. Tatchev, I. Gugov, C. Dewhurst, C. Ruessel, A. Hoell, Magnetic nanocrystals embedded in silicate glasses studied by polarized SANS, *J. Non Cryst. Solids* 385, 2014, 24-29, ISSN: 0022-3093, **IF 1.716**
49. Christo N. Nanev, “On the elementary processes of protein crystallization: Bond selection mechanism”, *J. Crystal Growth*, 402 (2014) 195-202, **IF 1.693**

50. V.D. Bachvarov, M.T. Peshova, S.D. Vitkova, N.S. Boshkov, Corrosion properties of Zn-Ni-P alloys in neutral model medium, *Cent. Eur. J. Chem.* 12, 2014,1183-1193, ISSN: 1895-1066, **IF 1.329**
51. T.I. Milenov, T. Tenev, I. Miloushev, G.V. Avdeev, C.W. Luo, W.C. Chou, Preliminary studies of the Raman spectra of Ag₂Te and Ag₅Te₃, *Opt. Quantum Electron* 46, 2014,573-580, ISSN: 0306-8919, **IF 1.078**
52. M. Georgieva, M. Petrova, N. Razkazov, D. Dobrev, Chemical metallisation of cubic boron nitride for the production of composite materials, *Trans. Inst. Met. Finish* 92, 2014, 140-145, ISSN: 0020-2967, **IF 0.747**
53. R.A. Andreeva, E.A. Stoyanova, A.S. Tsanev, P.K. Stefanov, D.S. Stoychev, Protective ability of cerium-containing conversion films on aluminium, *Trans. Inst. Met. Finish.* 92, 2014, 203-211, ISSN: 0020-2967, **IF 0.747**
54. A. Tsanev, P. Iliev, K. Petrov, P. Stefanov, D. Stoychev, Characterization of electrochemically deposited Ce_{1-x}Zr_xO₂ layers modified with cobalt oxide for electrocatalytic conversion of NO_x and CO, *Chem Biochem Eng Q* 28, 2014,337-347, ISSN: 0352-9568, **IF 0.569**
55. M.E. Koleva, N.N. Nedyalkov, A.O. Dikovska, P.A. Atanasov, G.V. Avdeev, H. Shimizu, M. Terakawa, M. Obara, D. Pallotti, E. Orabona, P. Maddalena, S. Lettieri, Nanostructured Ag/ZnO multilayer plasmonic composites, *J. Optoelectron. Adv. Mat.* 16, 2014,144-148, ISSN: 1454-4164, **IF 0.52**
56. H. Popova, D. Petkova, V. Tonchev, Generic instability in the model of diffusion-limited aggregation (DLA): The effect of global radii of birth and killing, *Chemistry* 23, 2014, 260-268, ISSN: 0861-9255, **IF 0.348**
57. M. Georgieva, M. Petrova, V. Chakarova, Obtaining of Electroless Ni-P/ZrO₂ Composite Coatings on Flexible Substrates of Polyethylene Terephthalate, *Bulg. Chem. Comm.*, 45, Special Issue A, 2013, (published in 2014) F116-121, ISSN: 0324-1130; **IF 0.32**
58. D. G. Filjova, G. P. Ilieva, V. Ts. Tsakova Electropolymerization of poly(3,4-ethylenedioxythiophene) layers in the presence of different dopants and their effect on the polymer electrocatalytic properties. Oxidation of ascorbic acid and dopamine, *Bulg. Chem. Commun.* 45, Special issue A 2013, (published in 2014) 196-201, ISSN: 0324-1130, **IF 0.32**
59. L.N. Petkov, K.Sv.Yosifov, A.S. Tsanev, D. Stoychev, Glassy carbon (GC) electrode modified with electrodeposited ZrO₂ and ZrO₂ + Ce₂O₃ + Y₂O₃ nanostructures as a cathode in the obtaining of active chlorine, *Bulg. Chem. Comm*, 45, Special issue A, (2013), (published in 2014), 122 – 128, ISSN: 0861-9255, **IF 0.32**
60. D. Stoychev, E. Dobreva, N. Razkazov, M. Stoycheva, N. Koteva, Electroless deposition of composite Co-P-diamond layers and their polishing properties, *Bulg. Chem. Commun.* 46, 2014, 283-293, ISSN: 0861-9808, **IF 0.32**
61. G.A. Hodjaoglu, I.S. Ivanov, Metal recovery of solid metallurgical wastes. Galvanostatic electroextraction of copper from sulphate electrolytes containing Zn²⁺ and Fe²⁺ ions, *Bulg. Chem. Commun.* 46, 2014,150-156, ISSN: 0861-9808, **IF 0.32**

62. M. Michailov, B. Ranguelov, Computer modelling of nanoscale diffusion phenomena at epitaxial interfaces, *J. Phys. Conf. Ser.* 514, 2014, ISSN: 1742-6588, **IF 0.265**
63. M. Mihalev, C. Hardalov, C. Christov, M. Michailov, B. Ranguelov, H. Leiste, Structural and adhesional properties of thin MoO₃ films prepared by laser coating, *J. Phys. Conf. Ser.* 514, 2014, ISSN: 1742-6588, **IF 0.265**
64. B. Ranguelov and M. Michailov, Atomic diffusion on vicinal surfaces: step roughening impact on step permeability, *J. Phys. Conf. Ser.* 558, 2014, ISSN: 1742-6588, **IF 0.265**
65. H. Petkova, K. Khristov, D. Exerowa, Critical capillary pressure: A parameter for evaluation of thin liquid film stability, *C.R.Acad. Bulgare Sci.* 67, 2014, 925-930, ISSN: 1310-1331, **IF 0.201**
66. L. Dimova, S. Atanassova-Vladimirova, I. Piroeva, B. Ranguelov, B. Shivachev, "Antibacterial activity of Ag-, Zn-, Cd-, Ba- modified natural clinoptilolite against *Escherichia coli*", *C.R. Acad. Bulgare Sci.* 12, 2014, 67, 11, 1531, ISSN: 1310-1331, **IF 0.206**
67. T. Simeonova, M. Tongov, G. Avdeev, Microstructure and properties of NiCrBSiC Overlay Coatings Deposited By The Plasma Scanning Process, 2014, *WIT Transactions on the Built Environment*, 137, pp. 553-564 (ISSN: 1743-3509), **IF 0.2**

ГЛАВИ ОТ КНИГИ

68. Exerowa D., Todorov R., Platikanov D. Chapter 3: Interfacial properties of therapeutic pulmonary surfactants studied by thin liquid films *in: Colloid and Interface Science in Pharmaceutical Research and Development* (H. Oshima and K. Makino Eds), Elsevier B.V., Amsterdam, The Netherlands 2014 pp. 55-77. ISBN: 978-0-444-62614-1
69. V. Fokin, A. Karamanov, A.S. Abyzov, J. Schmelzer, E. Zanotto, "Stress-induced Pore Formation and Phase Selection in a Crystallizing Stretched Glass", 441-479, in: *Glass – Selected Properties and Crystallization*, Jurn W. P. Schmelzer (Editor), De Gruyter, 2014 (ISBN 978-3-11-029838-3)
70. I. Gutzow, R. Pascova, N. Jordanov, S. Gutzov, I. Penkov, I. Markovska, J. W. P. Schmelzer, F.-P. Ludwig, Crystalline and amorphous modifications of silica, In: *Glass, Selected properties and crystallization*, Ed. J.W.P. Schmelzer, de Gruyter, 2014, 45-104, ISBN: 978-3-11-029838-3
71. Electrodeposition, Composition and Properties of Zn-Cr Alloy coating, Tz. Boiadjieva, M. Monev, In *Chromium Alloys: Chemistry, Production and Applications*, ed. Brianna Franco, Nova Science Publishers, Inc., New York, 2014, 1-41, ISBN: 978-1-63117-948-8

Научни статии, реферирани и индексирани в световната система за реферирание и индексирание

1. Karamanov A., "Vitrification and Sinter-Crystallization of Iron-Rich Industrial Wastes", *Advances in Science and Technology*, 92, 174-183, 2014
2. V. Mishev, J. Kaleicheva, G. Avdeev, Z. Karaguiozova, B. Dineva, Austempered ductile irons with nanoparticle additives, *Nanoscience & Nanotechnology*, 14 eds. E. Balabanova, E. Mileva, Sofia, 2014, 13, pp 129-132, ISSN 1313-8995
3. Z. Karaguiozova, J. Kaleicheva, V. Mishev, G. Avdeev, S. Stavrev, Microstructure and properties of electroless composite nickel coatings with nanodiamonds, *Nanoscience & Nanotechnology*, 14 eds. E. Balabanova, E. Mileva, Sofia, 2014, 13, pp 74-77, ISSN 1313-8995
4. Ts. Lazarova, S. Atanasova-Vladimirova, T. Ruskov, D. Kovacheva, Nanosized cobalt ferrite particles in silica matrix – synthesis and characterization, *Nanoscience & Nanotechnology*, 14, 2014, 129-132, ISSN: 1313-8995.
5. S. Veleva, R. Angelova, L. Stoyanov, V. Grudeva, D. Kovacheva, M. Mladenov, N. Boshkov, R. Raicheff, "Biogenic iron oxide-based nanocomposite electrodes for hybrid battery-supercapacitors systems", *Nanoscience and Nanotechnology*, 2014, 4, 50-52, Editors: E. Balabanova, E. Mileva.

Научни статии, които не са реферирани и индексирани в световната система за реферирание и индексирание.

1. L. M. Schabbach, M. C. Fredel, E. Karamanova, A. Karamanov, F. Andreola, I. Lancellotti, L. Barbieri, Ceramic tiles based on large amount of post-treated incinerator bottom ashes, *58^o Congresso Brasileiro de Cerâmica*, 18 a 21 de maio de 2014, Bento Gonçalves, RS, Brasil. P. 2684-2694
2. E. Ljatif, A. Kamusheva, G. Načevski, E. Karamanova, A. Grozdanova, A. Karamanov, P. Paunović, Environmental effects of glass formation from metallurgical solid waste, *IV International Conference „Ecology of urban areas 2014“*, 9-10th October 2014, Zrenjanin, Serbia, ISBN 978-86-7672-237-2
3. G. Hodjaoglu, G. Avdeev, A. Shoumkova, V. Stoyanova, Utilization of power plant ashes by hydrothermal treatment into useful products, *Proceedings of UNITECH'2014*, Gabrovo, 2014, pp. 385-390
4. M. Georgieva, M. Petrova, Ch. Jakob, M. Fritz, V. Chakarova, "Obtaining and Study of Electroless Composite Coatings Cu-SiC and Ni-SiC on Non-Metallic Substrates", *WOMag*, 10 (3), 2014, 1-6, ISSN: 2195-5905
5. M. Georgieva, M. Petrova, Ek. Dobрева, D. Stoychev, V. Chakarova, Obtaining of electroless composite Cu/D and Cu/cBN materials for making of abrasive tools, *Proceedings of XXXIV International Conference „Modern Electrochemical Methods*, 2014, 44-48, ISBN 978-80-905221-2-1

6. A. Miteva, V. Stoyanova, On Some Experimental Studies of the Quantum Confined Stark Effect in Semiconductor Nanostructures, *Proceedings SES'2013*, Sofia, 2014, 530-535
7. A. Miteva, V. Stoyanova, Quantum-Confined Stark Effect in Semiconductor Nanostructures and Its Device Applications, *Proceedings SES'2013*, Sofia, 2014, 536-541
8. I. Piroeva, S. Atanasova – Vladimirova, B. Rangelov, Plagioclase composition of the Vitosha pluton (Bulgaria) by X-ray MAPS, *Journal of International Scientific Publications: Materials, Methods and Technologies*, 2014, 8, 169-176, ISSN 1314-7269 (Online), Published at: <http://www.scientific-publications.net>
9. R. Andreeva, E. Stoyanova, D. Stoychev „Study of the chemical formation of cerium oxide conversion layers on aluminium AD-3“, *J. International Scientific Publications: Materials, Methods and Technologies*, 8, 751-759 (2014), ISSN1314-7269.
10. G. Hodjaoglu, F. Hodzhaoglu, I. Ivanov, Cuprite leaching and copper electroextraction from secondary products of hydrometallurgy, *Annual of UMG*, 57 (2014), 191-194, ISSN 1312-1820.
11. G. Hodjaoglu, Y. Stefanov, Electroextraction of non-ferrous metals from hydrometallurgical waste sediments by combined chemical leaching/ electrodeposition process, *Proceedings UNITECH'14*, 1 (2014) I-380-384, ISSN 1313-230X.
12. Христо Ханев, “Иван Странски, Ростислав Каишев, Любомир Кръстанов – трима световно признати български учени”, *НОМО SCIENS*, стр. 9-10, 2014, ISSN 1312-8884.
13. К. Митарова, В. Милкова, Електрооптика на колоид/полимерни системи за контролиран пренос на лекарства, Год. СУ „Св. Кл. Охридски”, Физ. Факултет, 107, 2014, 89-102. ISSN: 0584-0279.
14. Е. Милева, Двайсет и седма конференция на европейското общество по повърхности и колоиди (ECIS 2013, 1-6 септември 2013 г., София, България), Списание на Българската академия на науките, 2014, ISSN 0007-3989
15. N. Boshkov, N. Boshkova, V. Bachvarov, M. Peshova, L. Lutov, “Model Corrosion Investigations of the Material used in the Steam Generators of NPP Energy Blocks”, Nuclear Power Conference 2014, 26 - 31 October, Sapporo, Japan, ID 10081.