

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

Излезли от печат през 2014 г.

1. Kurteva, V. B.; Lubenov, L. A.; Antonova, D. V.; On the mechanism of the direct acid catalyzed formation of 2,3-disubstituted imidazo[1,2-a]pyridines from 2-aminopyridines and acetophenones. A concurrence between ketimine and Ortoleva-King type reaction intermediated transformations, *RSC Advances* 4 (2014) 175-184; ISSN: 2046-2069, IF=3.708.
2. Petrova, M.; Kurteva, V.; Synergistic efficiency of 2-[(1-aza-15-crown-5)-1-ylmethyl]-4-(phenyldiazenyl)-naphthalen-1-ol in the liquid extraction of light lanthanoid(III) ions with 4-benzoyl-3-phenyl-5-isoxazolone. The Role of aza-crown and azo-dye fragments on the extraction ability, *Journal of Chemical and Engineering Data* 59 (2014) 1295-1303; ISSN: 0021-9568 (Print), 1520-5134 (On line), IF=2.045.
3. Kurteva, V. B.; Lubenov, L. A.; Simova, S. D.; 2,3-Disubstituted imidazo[1,2-a]pyridines from 2-aminopyridines and acetophenones. Catalyst's efficiency and solid state NMR study, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 47-52; ISSN: 0324-1130, IF=0.349.
4. Atanassova, M.; Kurteva, V.; Lubenov, L.; Billard, I.; Comparing extraction, synergism and separation of lanthanoids by use of acidic and neutral compounds in chloroform and one ionic liquid: Is the latter always "better"?, *RSC Advances* 4 (2014) 38820-38829; ISSN: 2046-2069, IF=3.708.
5. Frade, R. F. M.; Coelho, J. A. S.; Simeonov, S. P.; Afonso, C. A. M.; An emerging platform from renewable resources: Selection guidelines for human exposure of furfural-related compounds, *Toxicology Research* 3 (2014) 311-314, ISSN: 2045452X, IF=3.273
6. Martins, A. N. C.; Simeonov, S. P.; Frija, L. M. T.; Viveiros, R.; Lourenço, A.; Silva, M. S. D.; Casimiro, T.; Afonso, C. A. M.; Isolation, analytical quantification and seasonal variation of labdanolic acid from the Portuguese-grown *Cistus ladaniferus*, *Industrial Crops and Products* 60 (2014) 226-232, ISSN: 09266690, IF=3.208.
7. Ivanov, P.; Atanassov, E.; Jaime, C.; Computational study on the conformations of CD38 and inclusion complexes of some lower-size large ring cyclodextrins, *Journal of Molecular Structure* 1056-1057 (2014) 238-245. ISSN: 0022-2860, IF=1.599.
8. Ivanov, P.; Pojarlieff, I. Simova, S.; Velinov, G.; Interaction between charged groups. pK-values and conformations of the diastereoisomers of 3-amino-2,3-diphenylpropanoic acids and their ester and N-acetyl derivatives, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 9-15. ISSN: 0324-1130, IF=0.349.
9. Ivanov, P.; Further studies on the conformations of large-ring cyclodextrins, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 238-245. ISSN: 0324-1130, IF=0.349.
10. Philipova, I.; Stavrakov, G.; Dimitrov, V.; Phosphino-carboxamide hybrid ligands with a camphane scaffold for Pd-catalyzed asymmetric allylic alkylation, *Bulgarian*

- Chemical Communications 46 Special Issue A (2014)* 21-26. ISSN: 1310-1331, IF=0.349.
11. Stavrakov, G.; Philipova, I.; Valcheva, V.; Momekov, G.; Synthesis and antimycobacterial activity of bornylamine derived amido-alcohols, *Bulgarian Chemical Communications 46 Special Issue A (2014)* 27-32. ISSN: 1310-1331, IF=0.349.
 12. Stavrakov, G.; Philipova, I.; Valcheva, V.; Momekov, G.; Synthesis and antimycobacterial activity of novel camphane-based agents, *Bioorganic and Medicinal Chemistry Letters 24 (2014)* 165-167. ISSN: 0960-894X, IF=2.331.
 13. Stavrakov, G.; Valcheva, V.; Philipova, I.; Doytchinova, I.; Design of novel camphane-based derivatives with antimycobacterial activity, *Journal of Molecular Graphics and Modeling 51 (2014)* 7-12. ISSN: 1093-3263. IF=2.022.
 14. Hansen, P. E.; Kamounah, F. S.; Zhiryakova, D.; Manolova, Y.; Antonov, L.; 1,1',1''-(2,4,6-Trihydroxybenzene-1,3,5-triyl)triethanone tautomerism revisited, *Tetrahedron Letters 55 (2014)* 354-357; ISSN: 0040-4039(printed), 1873-3581(electronic), IF=2.391.
 15. Ali, S. T.; Antonov, L.; Fabian, W. M. F.; Phenol–Quinone Tautomerism in (Arylazo) naphthols and the Analogous Schiff Bases: Benchmark Calculations, *Journal of Physical Chemistry A 118 (2014)* 778-789. ISSN: 1089-5639, IF=2.775.
 16. Drakalska, E.; Momekova, D.; Manolova, Y.; Budurova, D.; Momekov, G.; Genova, M.; Antonov, L.; Lambov, N.; Rangelov, S.; Hybrid liposomal polyoxyethylated calyx[4]arene system as a drug delivery platform for curcumin, *International Journal of Pharmaceutics 472 (2014)* 165-174; ISSN: 03785173, IF=2.142.
 17. Manolova, Y.; Deneva, V.; Antonov, L.; Drakalska, E.; Momekova, D.; Lambov, N.; The effect of water on the curcumin tautomerism: a quantitative approach, *Spectrochimica Acta Part A 132 (2014)* 815-820; ISSN: 1386-1425. IF=2.129.
 18. Kawauchi, S.; Antonov, L.; Okuno, Y.; Prediction of the color of dyes by using time-dependent density functional theory, *Bulgarian Chemical Communications 46 Special Issue A (2014)* 228-237; ISSN: 0324-1130. IF=0.349.
 19. Petkova, Z.; Valcheva, V.; Momekov, G.; Petrov, P.; Dimitrov, V.; Doytchinova, I.; Stavrakov, G.; Stoyanova, M.; Antimycobacterial activity of chiral aminoalcohols with camphane scaffold, *European Journal of Medicinal Chemistry 81 (2014)* 150-157. ISSN: 0009-4374, IF=3.432.
 20. Dobrikov, G. M.; Valcheva, V.; Nikolova, Y.; Ugrinova, I.; Pasheva, E.; Dimitrov, V.; Enantiopure antituberculosis candidates synthesized from (-)-fenchone, *European Journal of Medicinal Chemistry 77 (2014)* 243-247. ISSN: 0009-4374, IF=3.432.
 21. Petkova, Z.; Stoyanova, M.; Dimitrov, V.; Palladium-catalyzed allylic alkylation using chiral P,O-ligands synthesized via sulfonamide directed *ortho*-lithiation, *Tetrahedron Letters 55 (2014)* 2093–2096. ISSN: 0957-4166, IF=2.165.
 22. Dimitrov, V.; Catalytic method for synthesis of Grignard compounds with magnesium attached to tertiary bridge head C-atom, *Bulgarian Chemical Communications 46 Special Issue A (2014)* 16-20. ISSN: 0324-1130, IF=0.349.
 23. Dikova, K.; Kamenova-Nacheva, M.; Kostova, K.; Dimitrov, V.; Enantioselective addition of diethylzinc to ferrocene carbaldehyde – reaction outcome by using

- natural compound based catalysts, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 33-38. ISSN: 0324-1130, IF=0.349.
24. Slavchev, I.; Dobrikov, G. M.; Valcheva, V.; Ugrinova, I.; Pasheva, E.; Dimitrov, V.; Antimycobacterial activity generated by the amide coupling of (-)-fenchone derived aminoalcohol with cinnamic acids and analogues, *Bioorganic and Medicinal Chemistry Letters* 24 (2014) 5030–5033. ISSN: 0960-894X, IF=2.331.
 25. Pejović, A.; Denić, M. S.; Stevanović, D.; Damljanović, I.; Vukićević, M.; Kostova, K.; Tavlinova-Kirilova, M.; Randjelović, P.; Stojanović, N. M.; Bogdanović, G.A.; Blagojević, P.; D'hooghe, M.; Radulović, N. S.; Vukićević, R. D.; Discovery of anxiolytic 2-ferrocenyl-1,3-thiazolidin-4-ones exerting GABAA receptor interaction via the benzodiazepine-binding site, *European Journal of Medicinal Chemistry* 83 (2014) 57-73. ISSN: 0009-4374, IF=3.432.
 26. Mavrova, A. T.; Wesselinova, D.; Tsenov, J. A.; Lubenov, L. A.; Synthesis and antiproliferative activity of some new thieno[2,3-d]pyrimidin-4(3H)-ones containing 1,2,4-triazole and 1,3,4-thiadiazole moiety, *European Journal of Medicinal Chemistry* 86 (2014) 676-683. ISSN: 0223-5234, IF=4.07.
 27. Smelcerovic, A.; Pavlovic, V.; Dzodic, P.; Cherneva, E.; Yancheva, D.; Cyclodipeptides with a promising scaffold in medicinal chemistry, *Amino acids* 46 (2014) 825-840. ISSN: 0939-4451, IF=3.65.
 28. Kolarevic, A.; Yancheva, D.; Kocic, G.; Smelcerovic, A.; Deoxyribonucleases inhibitors, *European Journal of Medicinal Chemistry* 88 (2014) 101-111. ISSN: 0223-5234, IF=4.07.
 29. Zvezdanovic, J.; Daskalova, L.; Yancheva, D.; Cvetkovic, D.; Markovic, D.; Anderluh, M.; Smelcerovic, A.; 2-Amino-5-alkylidenethiazol-4-ones as promising lipid peroxidation inhibitors, *Monatshefte fur Chemie* 145 (2014) 945-952. ISSN: 0026-9247, IF=1.34.
 30. Glavcheva, Z. I.; Yancheva, D. Y.; Kancheva, Y. K.; Velcheva, E. A.; Stamboliyska, B. A.; Development of FTIR spectra database of reference art and archaeological materials, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 164-169. ISSN: 0324-1130, IF=0.34.
 31. Stoyanov, S. S.; Yancheva, D. Y.; Stamboliyska, B. A.; DFT study on IR spectral and structural changes caused by the conversion of substituted benzophenones into ketyl radicals, *Computational and Theoretical Chemistry* 1046 (2014) 57-60. ISSN: 2210-271X, IF=1.37.
 32. Yancheva, D.; Stoyanov, S.; Stamboliyska, B.; Daskalova, L.; Cherneva, E.; Smelcerovic, A.; Influence of the environment on the antioxidant action of two 6-(propan-2-yl)-4-methyl-morpholine-2,5-diones, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 179-186. ISSN: 0324-1130, IF=0.34.
 33. Popova, A.; Stamboliyska, B.; Velcheva, E.; Experimental and DFT studies on the IR spectral and structural changes arising from the conversion of 4-amino-N-[amino(imino)methyl] benzenesulfon amide (sulfaguanidine) into azanion, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 149-156. ISSN: 0324-1130, IF=0.34
 34. Popova, A.; Velcheva, E.; IR spectral and structural changes, caused by the conversion of 4-cyanobenzenesulfonamide into azanion, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 157-163. ISSN: 0324-1130, IF=0.34.

35. Stoyanov, S. S.; Tsenov, J. A.; IR spectra and structure of 1,1,3,3-tetracyanopropane and its carbanions: experimental and quantum chemical study, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 170-178. ISSN: 0324-1130, IF=0.34.
36. Mihályi, M.; Kollár, M.; Klébert, S.; Mavrodinova, V.; Transformation of ethylbenzene-m-xylene feed over MCM-22 zeolites with different acidities, *Applied Catalysis A: General* 476 (2014) 19–25. ISSN: 0926-860X, IF=3.56.
37. Mihályi, M.; Klébert, Sz.; Kollár, M.; Mavrodinova, V.; Transformation of ethylbenzene – m-xylene mixture on zeolites with different structures, *Journal Porous Materials* 21 (2014) 485-493. ISSN: 1380-2224, IF=0.79.
38. Dimitrov, M.; Guncheva, M.; Zhiryakova, D.; Lazarova, T.; Lalev, G.; Tsoncheva, T.; Nanostructured tin dioxide - a promising multipurpose support material for catalytic and biocatalytic applications, *Chemical Engineering Journal* 252 (2014) 55-63, ISSN: 1385-8947, IF=4.058.
39. Tsoncheva, T.; Genova, I; Tsyntsarski, B; Dimitrov, M.; Paneva, D.; Cherkezova-Zheleva, Z.; Budinova, T.; Ivanova, R.; Mitov, I.; Petrov, N.; Cobalt and iron modified activated carbon from coal tar pitch: preparation and application as catalysts for methanol decomposition, *Journal Porous Mater* 21(2014) 503-512. ISSN: 1380-2224, IF=0.79.
40. Genova, I.; Tsoncheva, T.; Dimitrov, M.; Paneva, D.; Tsintsarski, B.; Ivanova, R.; Cherkezova-Zheleva, Z.; Budinova, T.; Kovacheva, D.; Mitov, I.; Petrov, N., Cobalt ferrite nanoparticles hosted in activated carbon from renewable sources as catalyst for methanol decomposition, *Catalysis Communications* 55 (2014) 43–48. ISSN: 1566-7367, IF=3.37.
41. Tsoncheva, T.; Gallo, A.; Genova, I.; Spassova, I.; Marelli, M.; Dimitrov, M. ; Khristova, M.; Atanasova, G.; Kovacheva, D.; Nihtyanova, D. ; Dal Santo, V.; Control of copper particles deposition in mesoporous SBA-15 silica by modified CVD method, *Inorganica Chimica Acta* 423 (2014) 145–151. ISSN: 0020-1693, IF=2.0.
42. Genova, I.; Tsyntsarski, B.; Dimitrov, M.; Paneva, D.; Kovacheva, D.; Budinova, T.; Ivanova, R.; Mitov, I.; Petrov, N.; Tsoncheva, T.; Cobalt and iron modified activated carbons from renewable sources as catalysts in methanol decomposition: Effect of the precursor *Bulgarian Chemical Communications 46 Special Issue A* (2014) 134-140. ISSN: 0861-9808, IF=0.32.
43. Tsoncheva, T., Genova, I.; Dimitrov, M.; Sarcadi-Priboczki, E.; Venezia, A.M.; Kovacheva, D; Scotti, N; Dal Santo, V.; Nanostructured copper-zirconia composites as catalysts for methanol decomposition, *Applied Catalysis B: Environmental* 165 (2015) 599–610. ISSN: 0926-3373, IF=6.42.
44. Velinov, N.; Koleva, K.; Tsoncheva, T.; Paneva, D.; Manova, E.; Tenchev, K.; Kunev, B.; Genova, I.; Mitov, I. ; Copper-cobalt ferrites as catalysts for methanol decomposition, *Central European Journal of Chemistry* 12 (2014) 250-259. ISSN: 1644-3624, IF=1.33.
45. Koleva, K.; Velinov, N.; Tsoncheva, T.; Mitov, I.; Mössbauer study of Cu_{1-x}Zn_xFe₂O₄ catalytic materials, *Hyperfine interaction* 26 (2014) 89–97. ISSN: 0304-3843, IF=0.21.

46. Tsoncheva, T.; Genova, I.; Stoyanova, M.; Pohl, M. M.; Nickolov, R.; Dimitrov, M.; Sarcadi-Priboczki, E.; Mihaylov, M.; Kovacheva, D.; Hadjiivanov, K.; Effect of mesoporous silica topology on the formation of active sites in copper supported catalysts for methanol decomposition, *Applied Catalysis B: Environmental* 147 (2014) 684– 697. ISSN: 0926-3373, IF=6.42.
47. Koleva, K.; Velinov, N.; Tsoncheva, T.; Mitov, I., Synthesis and catalytic properties of nanocrystalline copper-zinc ferrite in *Nanoscience & Nanotechnology* 14 (2014) 35-38, ISSN: 978-954-322-286-6.
48. Issa, G.; Dimitrov, M.; Ivanova, R.; Tsoncheva, T., Preparation of nanosized ceria and application as catalyst in ethylacetate combustion, *Nanoscience & Nanotechnology* 14 (2014) 29-32. ISSN: 978-954-322-286-6.
49. Issa, G.; Genova, I.; Dimitrov, M.; Dal Santo, V.; Gallo, A.; Marelli, M.; Tsoncheva, T.; Effect of Mesoporous Silica Topology on the Formation of Active Sites in Mono- and Bicomponent Copper Containing Catalysts, *Topics in chemistry and material sciences* 7 (2014) 61-72. (ISBN 1314-0795).
50. Tsyntsarski, B.; Petrova, B.; Budinova, T.; Petrov, N.; Teodosiev, D. K.; Sarbu, A.; Sandu, T.; Ferhat Yardim, M.; Sirkecioglu, A.; Removal of detergents from water by adsorption on activated carbons obtained from various precursors, *Desalination and Water Treatment* 52 (2014) 3445-3452. ISSN:1944-3994, E-ISSN:1944-3986, IF=0.987.
51. Racheva, I. G.; Tsyntsarski, B. G.; Petrova, B. N.; Budinova, T. K.; Petrov, N. V.; Nagel, B.; Pusz, S.; Szeluga U.; Conversion of polyolefin wax to carbon adsorbents by thermooxidation treatment; *Bulgarian Chemical Communications 46 Special Issue A* (2014) 129-133. ISSN: 0861-9808, IF=0.349.
52. Tsyntsarski, B.; Petrova, B.; Budinova, T.; Petrov, N.; Sarbu, A.; Sandu, T.; Ferhat Yardim, M. F.; Sirkecioglu, A.; Removal of detergents by zeolites and membranes; *Bulgarian Chemical Communications 46* (2014) 157-164. ISSN: 0861-9808, IF: 0.349.
53. Tsyntsarski, B. G.; Petrova, B. N.; Budinova, T. K.; Petrov, N. V.; Teodosiev, D. K.; Removal of phenol from contaminated water by activated carbon, produced from waste coal material, *Bulgarian Chemical Communications 46* (2014) 353-361. ISSN: 0861-9808, IF=0.349.
54. Budinova, T.; Huang, W. P-L.; Racheva, I.; Tsyntsarski, B.; Petrova, B.; Ferhat Yardim, M.; Investigation of kerogen transformation during pyrolysis by applying a diamond anvil cell, *Oil Shale* 31 (2014) 121-131. ISSN: 0208-189X, IF=0.838.
55. Butuzova, L.; Makovskyi, R.; Budinova, T.; Marinov, S. P.; EPR and IR studies on the role of coal genetic type in plastic layer formation, *Fuel Processing Technology* 125 (2014) 246-250. ISSN: 0378-3820, IF=3.019.
56. Sandu, T.; Sarbu, A.; Damian, C. M.; Marin, A.; Vulpe, S.; Budinova, T.; Tsyntsarski, B.; Ferhat Yardim, M.; Sirkecioglu, A.; Preparation and characterization of membranes obtained from blends of acrylonitrile copolymers with poly(vinyl alcohol), *Journal of Applied Polymer Science* 131 (2014) 41013. ISSN:0021-8995, E-ISSN:1097-4628, IF=1.400.

57. Grigorova, E.; Spassova, M.; Khristov, M.; Tsyntsarski, B.; Spassov, T.; High-pressure DSC study on the hydriding and dehydriding of Mg/C nanocomposites, *Journal of Thermal Analysis and Calorimetry* 116 (2014) 265-272. ISSN: 1388-6150, E-ISSN: 1588-2926, IF=2.206.
58. Gonsalvesh, L.; Stefanova, M.; Marinov S. P.; Carleer, R.; Yperman, J.; Geochemical study of maltenes from coal biodesulphurisation, *Fuel* 135 (2014) 332-339. ISSN: 0016-2361, IF=3.406.
59. Stefanova, M.; Gonsalvesh, L.; Marinov S. P.; Czech, J.; Carleer, R.; Yperman, J.; Reductive pyrolysis of leonardite humic acids, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 123-128. ISSN: 0324-1130, IF=0.349.
60. Stefanova, M.; Organic matter composition of Pirin coal studied by methods of organic geochemistry, *Comptes rendus de l'Academie bulgare des Sciences* 67 (2014) 387-394. ISSN: 1310-1331, IF=0.198.
61. Бутузова, Л. Ф.; Сафин, В. А.; Маринов, С.; Бутузов, Г. Н.; Раздобудько, Т. А.; Исследование структурно-группового состава продуктов пиролиза и термохимического разложения сернистых углей методом DRIFT спектроскопии, *Наукови праци ДонНТУ, Серия: Химия и химична технология* 23 (2014) 149-155. ISSN: 2074-6652.
62. Zaneva-Dobranova, E.; Meracheva, G.; Stefanova, M.; Hydrocarbon potential formation from Bulgarian part of Thrace basin, *Buletini i Shkencave Gjeologjike* 2 (2014) 454-457. ISSN: 2306-9600.
63. Nagel, B.; Racheva, I.; Tsyntsarski, B.; Szeluga, U.; Pusz, S.; Czajkowska, S.; Petrova, B.; Budinova, T.; Petrov, N.; Characteristics of carbon foams from by-products of commercial polyethylene production, *Proc. International Multidisciplinary Scientific GeoConference SGEM 2014*, 17-26 June 2014, Albena, Bulgaria, Section "Nano, Bio and Green –Technologies advances in Biotechnology", v. 1, pp. 19-24, ISBN 978-619-7105-20-9. ISSN 1314-2704.
64. Popova, M.; Ristic, A.; Mazaj, M.; Maučec, D.; Dimitrov, M.; Novak Tušar, N.; Effect of autoreduction of copper on FeKIL-2 silicas catalytic activity in toluene oxidation, *ChemCatChem* 6 (1) (2014) 271-277; ISSN: 1867-3880, IF=5.04.
65. Popova, M.; Ristić, A.; Mavrodinova, V.; Maučec, D.; Mindizova, L.; Novak Tušar, N.; Design of Cobalt Functionalized Silica with Interparticle Mesoporosity as a Promising Catalyst for VOCs Decomposition, *Catal. Lett.* 144 (6) (2014) 1096-1100; ISSN: 1011-372X, IF=2.29.
66. Popova, M.; Szegedi, Á.; Mavrodinova, V.; Mihály, J.; Klébert, Sz.; Benbassat, N.; Yoncheva, K.; Preparation of resveratrol-loaded nanoporous silica materials with different structures, *J. Solid State Chem.* 219 (2014) 37-42; ISSN: 1095-726X, IF=2.2
67. Popova, M.; Yoncheva, K.; Szegedi, Á.; Kalvachev, Y.; Benbassat, N.; Mavrodinova, V.; Resveratrol loading on mesoporous silica and zeolite carriers by solid state method, *Bulg. Chem. Commun.* 46 (special issue A) (2014) 117-122; ISSN: 0324-1130, IF=0.32.

68. Yoncheva, K.; Popova, M.; Szegedi Á.; Mihaly, J.; Tzankov, B.; Lambov, N.; Konstantinov S.; Tzankova, V.; Pessinad, F.; Valoti, M.; Functionalized mesoporous silica nanoparticles for oral delivery of budesonide, *J. Solid State Chem.* 211 (2014) 154-161; ISSN: 1095-726X, IF=2.2.
69. Szegedi, Á.; Popova, M.; Yoncheva, K.; Makk, J.; Mihály, J.; Shestakova, P.; Silver and sulfadiazine loaded nanostructured silica materials as potential replacement of silver-sulfadiazine, *Journal of Materials Chemistry B* 2 (2014) 6283-6293; ISSN 2050-750X, IF=6.63.
70. Popova, M.; Szegedi, Á.; Yoncheva, K.; Konstantinov, S.; Petrova, G. P.; Aleksandrov, H.A.; Vayssilov, G.N.; Shestakova, P. ; New method for preparation of delivery systems of poorly soluble drugs on the basis of functionalized mesoporous MCM-41 nanoparticles, *Micropor. Mesopor. Mater.* 198 (2014) 247–255; ISSN: 1387-181, IF=3.21.
71. Szegedi, Á.; Popova M.; Valyon, J.; Guarnaccio, A.; De Stefanis, A.; De Bonis, A.; Orlando, S.; Sansone, M.; Teghil, R.; Santagata, A.; Comparison of silver nanoparticles confined in nanoporous silica prepared by chemical synthesis and by ultra-short pulsed laser ablation in liquid, *Applied Physics A* (2014) 1-8. ISSN: 0947-8396, IF=1.69.
72. Popova, M.; Szegedi, Á.; Ristić, A.; Drotar, E.; Novak Tušar, N.; Glycerol acetylation on mesoporous KIL-2 supported sulphated zirconia catalysts, *Catal. Sci. Technol.* 4 (11) (2014) 3993–4000; ISSN: 2044-4753, IF=4.76.
73. Rangus, M.; Mazaj, M.; Dražić, G.; Popova, M.; NovakTušar, N.; Disordered mesoporous silica catalyst FeKIL-2 in catalytic oxidation of VOC: active iron sites and diffusion advantages, *Materials* 7 (2014) 4243-4257; ISSN 1996-1944, IF=1.88.
74. Nénon, S.; Champagne, B.; Spassova, M. I.; Assessing long-range corrected functionals with physically-adjusted range-separated parameter for calculating the polarizability and the second hyperpolarizability of polydiacetylene and polybutatriene chains, *Physical Chemistry Chemical Physics* 16 (2014) 7083-7088, ISSN: 1463-9076, IF=4.198.
75. Marinov, M.; Stoyanov, N.; Ugrinov, A.; Angelova, S.; Wawer, I.; Pisklak, M.; Enchev, V.; Solid state structure of 2-(4-hydroxyphenyl)-substituted phenalene-1,3-dione and indan-1,3-dione, *Journal of Structural Chemistry* 55 (2014) 446-455, ISSN: 0022-4766, IF=0.501.
76. Marinov, M.; Marinova, P.; Stoyanov, N.; Markova, N.; Enchev, V.; Synthesis of 3',4'-dihydro-2*H*,2'*H*,5*H*-spiro[imidazolidine-4,1'-naphthalene]-2,5-dione and its derivatives, *Acta Chimica Slovenica* 61 (2014) 420-424, ISSN: 1318-0207, IF=1.135.
77. Angelova, S. E.; Slavova-Kazakova, A. K.; Saso, L.; Malhotra, S. V.; Prasad, A. K.; Bracke, M. E.; Parmar, V. S.; Kancheva, V. D.; DFT/B3LYP calculated bond-dissociation enthalpies, radical-scavenging and antioxidant activities of natural-like coumarins, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 187-195, ISSN: 0324-1130, IF=0.320.
78. Bakalova, S. M.; Gil Santos, A.; Diels–Alder Reactions of Chiral Isoimidium Salts: A Computational Study, *Journal of Organic Chemistry* 79 (2014) 8202-8211, ISSN: 0022-3263, IF=4.638.

79. Dikova, J.; Kitova, S.; Stoyanova, D.; Vasilev, A.; Deligeorgiev, T.; Angelova, S.; Optical properties of thin merocyanine dye layers for photovoltaic applications, *Journal of Physics: Conference Series* 514 (2014) 012019, ISSN: 17426588, 17426596.
80. Kitova, S.; Stoyanova, D.; Dikova, J.; Kandinska, M.; Vasilev, A.; Angelova, S.; Optical modeling of bulk-heterojunction organic solar cells based on squaraine dye as electron donor, *Journal of Physics: Conference Series* 558 (2014) 012052, ISSN: 17426588, 17426596.
81. Todorova, M.; Trendafilova, A.; *Sideritis scardica* Griseb, an endemic species of Balkan peninsula: Traditional uses, cultivation, chemical composition, biological activity, *Journal of Ethnopharmacol* 152 (2014) 156-165, ISSN: 0378-8741, IF= 2.939.
82. Trendafilova, A.; Todorova, M.; Genova, V.; Shestakova, P.; Dimitrov, D.; Jadranin, M.; Milosavljevic, S.; New pseudoguaiane derivatives from *Inula aschersoniana* Janka var. *aschersoniana*, *Natural Product Communications* 9 (2014) 1123-1124, ISSN: 1934-578X, IF= 0.924.
83. Popova, M.; Reyes, M.; Le Conte, Y.; Bankova, V.; Propolis chemical composition and honey bee resistance against *Varroa destructor*. *Natural Product Research* 28 (2014), 788-792, ISSN 1478-6419 (Print), 1478-6427 (Online).IF = 1.225.
84. Bankova, V.; Popova, M.; Trusheva, B.; Propolis volatile compounds: chemical diversity and biological activity: a review. *Chemistry Central Journal* 8 (2014) 28, ISSN: 1752-153X, IF = 1.66.
85. Bankova, V.; Galabov, A. S.; Antonova, D.; Vilhelmova, N.; Di Perri, B.; Chemical composition of propolis extract ACF[®] and activity against herpes simplex virus. *Phytomedicine*, 21 (2014), 1432-14338, ISSN: 0944-7113, IF = 2.877.
86. Popova, M.; Stoyanova, A.; Valyovska-Popova, N.; Bankova, V.; Peev, D.; A new coumarin and total phenolic and flavonoids content of Bulgarian celeriac. *Bulgarian Chemical Communications* 46 Special Issue A (2014), 88-93. ISSN 0324-1130, IF= 0.349.
87. Doncheva, T.; Kostova, N.; Antonova, A.; Tashev, A.; Philipov, S. Alkaloids from *Papaver degenii* (Urum. et Jav), *Comptes rendus de l'Academie bulgare des Sciences* 67 (2014) 339-342. ISSN: 1310-1331, IF=0.198.
88. Doncheva, T.; Kostova, N.; Yordanova, G.; Saadi, H.; Akrib, F.; Dimitrov, D.; Philipov, S. Comparison of alkaloid profile from *Glaucium corniculatum* (Papaveraceae) of Algerian and Bulgarian origin, *Biochemical Systematics and Ecology* 56 (2014) 278-280. ISSN: 0305-1978, IF=1.269.
89. Alipieva, K.; Orhan, I. E.; Tatli, I. I.; Kostadinova, E. P.; Georgiev, M. I.; Treasure from garden: Chemical profiling, pharmacology and biotechnology of mulleins *Phytochemistry Reviews* 13 (2014) 417-444, ISSN:1572-980X, IF=2.894.
90. Alipieva, K.; Korkina, L.; Orhan, I. E.; Georgiev, M. I.; Verbascoside - A review of its occurrence, (bio)synthesis and pharmacological significance; *Biotechnology Advances* 72 (2014) 1065-1076, ISSN:0734-9750, IF=8.905.
91. Marcoccia, D.; Georgiev, M. I.; Alipieva, K. I.; Lorenzetti, S.; Inhibition of the DHT-induced PSA secretion by *Verbascum xanthophoeniceum* and *Serenoa repens* extracts in human LNCaP prostate epithelial cells; *Journal of Ethnopharmacology* 155 (2014) 616-625, ISSN:0378-8741, IF=2.939.

92. Mártonfiová, L.; Danova, K.; Toteva, V. K.; Čellárová, E.; Karyotype analysis of *Hypericum rumeliacum* Boiss., *Thaiszia Journal of Botany* 24 (2014) 143-150, P-ISSN 1210-0420.
93. Treneva, G.; Markovska, Y.; Wolfram, E.; Danova, K.; Effect of plant growth regulators on growth patterns and enzymatic antioxidant activities in *Hypericum calycinum* shoot cultures, *Bulgarian Journal of Agricultural Sciences* 20 (2014) 46-50, P-ISSN 1310-0351, IF= 0.136.
94. Mikhova, B.; Janevska, V.; Stamboliyska, B.; Draeger, G.; Popovski, E.; Synthesis and structure of some novel dicoumarinamines, *Bulgarian Chemical Communications* 46 (2014) 135-140, ISSN: 0861-9808, IF=0.320.
95. Jashari, A.; Imeri, F.; Ballazhi, L.; Shabani, A.; Mikhova, B.; Dräger, G.; Popovski, E.; Huwiler, A.; Synthesis and cellular characterization of novel isoxazolo- and thiazolohydrazinylidene-chroman-2,4-diones on cancer and non-cancer cell growth and death, *Bioorganic & Medicinal Chemistry*, 22 (2014) 2655-2661, ISSN: 09680896, IF=3.20.
96. Buzarevski, A.; Mikhova, B.; Popovski, E.; N-{{[(4-nitrophenyl)amino] methyl} benzamide, *Molbank* (2014) M821, ISSN: 1422-8599, IF=0.3.
97. Angelova, V. T.; Frey, W.; Ivanov, I. C.; Vassilev, N.; Glasnov, T. N.; One-pot synthesis of a chromeno[4,3,2-*de*]-1,6-naphthyridine derivative from 4-chlorocoumarin-3-carbaldehyde, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 53-58, ISSN: 0324-1130, IF=0.320.
98. Bikov, A. Z.; Genova, R. V.; Vassilev, N. G.; Influence of the spin-orientation of free and unpaired protons of ortho-water on the crystallization of the (0 0 1) face of TGS crystal: “in situ” investigation, *Journal of Crystal Growth* 395 (2014) 90-93, ISSN: 0022-0248, IF=1.693.
99. Luong, T. K. N.; Absillis, G.; Shestakova, P.; Parac-Vogt, T. N.; Solution speciation of a dinuclear Zr(IV)-substituted Keggin polyoxometalate [$\{\alpha\text{-PW}_{11}\text{O}_{39}\text{Zr}(\mu\text{-OH})(\text{H}_2\text{O})\}_2\}$]- and its reactivity towards the hydrolysis of a DNA-model phosphodiester, *European Journal of Inorganic Chemistry* (2014) 5276 – 5284, ISSN: 1099-0682, IF=2.965.
100. Shestakova, P.; Absillis, G.; Martin-Martinez, F. J.; De Proft, F.; Willem, R.; Parac-Vogt, T. N.; Integrating ^{31}P DOSY NMR spectroscopy and molecular mechanics as a powerful tool for unraveling the chemical structures of polyoxomolybdate-based amphiphilic nanohybrids in aqueous solution, *Chemistry - A European Journal* 20 (2014) 5258-5270, ISSN: 1521-3765, IF=5.696.
101. Hardeman, T.; Willot, P.; Winter, J. D.; Josse, T.; Gerbaux, P.; Shestakova, P.; Nies, E.; Koeckelberghs, G.; Study on the formation of a supramolecular conjugated graft copolymer in solution., *Journal of Polymer Science Part A: Polymer Chemistry* 52 (2014) 804-809, ISSN: 1099-0518, IF=3.245.
102. Mitova, V.; Slavcheva, S.; Shestakova, P.; Momekova, D.; Stoyanov, N.; Momekov, G.; Troev, K.; Koseva, N.; Polyphosphoester conjugates of dinuclear platinum complex: synthesis and evaluation of cytotoxic and the proapoptotic activity, *European Journal of Medicinal Chemistry* 72 (2014) 127-136, ISSN: 0223-5234, IF=3.432.

103. Stroobants K.; Absillis, G.; Shestakova, P.; Willem, R.; Parac-Vogt, T. N.; Hydrolysis of tetraglycine by a Zr(IV)-substituted Wells-Dawson polyoxotungstate studied by Diffusion Ordered NMR Spectroscopy, *Journal of Cluster Science* 25 (2014) 855 – 866, ISSN: 1282-8862, IF=1.111.
104. Galabov, B.; Koleva, G.; Simova, S.; Hadjieva, B.; Schaefer III, H.F.; Schleyer, P.V.R.; Arenium ions are not obligatory intermediates in electrophilic aromatic substitution, *Proceedings of the National Academy of Sciences of the USA* 111 (2014) 10067-10072, ISSN: 0027-8424p; 1091-6490o, IF=9.809.
105. Stoyanova, R.; Ivanova, S.; Zhecheva, E.; Samoson, A.; Simova, S.; Tzvetkova, P.; Barra, A.-L.; Correlations between lithium local structure and electrochemistry of layered LiCo_{1-2x}Ni_xMn_xO₂ oxides: 7Li MAS NMR and EPR studies, *PhysChemChemPhys* 16 (2014) 2499-2507, ISSN 1463-9076, IF=4.198
106. Kancheva, V. D.; Slavova-Kazakova, A.; Janek, M.; Fabbri, D.; Dettori, M. A.; Delogu, G.; Amarowicz, R.; Protective effects of dehidrozingerone and its dimer in equimolar binary and triple mixtures with alpha-tocopherol and/or ascorbyl palmitate, *Food Chemistry* 157 (2014) 263-274, ISSN: 0308-8146, IF=3.9.
107. Nedelcheva-Antonova, D. V.; Tsandeva, K. S.; Dimitrova, R. D.; Determination of benzethonium chloride in grapefruit seed extracts – a GC/MS alternative, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 94-99, ISSN: 0324-1130, IF=0.3.
108. Momchilova, Sv.; Arpadjan, S.; Blagoeva, E.; Distribution of the essential Cu, Fe, Mn and the toxic Cd and Pb microelements between lipid and non-lipid fractions in hazelnuts and walnuts, *Comptes rendus de l'Academie bulgare des Sciences* 67 (2014) 343-348, ISSN: 1310-1331, IF=0.2.
109. Denev, P.; Kratchanova, M.; Ciz, M.; Lojek, A.; Vasicek, O.; Nedelcheva, P.; Blazheva, D.; Toshkova, R.; Gardeva, E.; Yossifova, L.; Hyrsil, P.; Vojtek, L.; Biological activities of selected polyphenol-rich fruits related to immunity and gastrointestinal health, *Food Chem* 157 (2014) 37-44, ISSN: 0308-8146, IF=3.259.
110. Lojek, A.; Denev, P.; Ciz, M.; Vasicek, O.; Kratchanova, M.; The effects of biologically active substances in medicinal plants on the metabolic activity of neutrophils, *Phytochem Rev* 13(2) (2014) 499-510, ISSN: 1568-7767, IF=2.894.
111. Kratchanova, M.; Denev, P.; Kratchanov, Ch.; Rosehip extract synergistically increase antioxidant activity of fruit and herb extracts. *Bulg Chem Commun* 46 (2014) 59-64, ISSN: 0324-1130, IF=0.349.
112. Denev, P.; Kratchanova, M.; Ciz, M.; Lojek, A.; Vasicek, O.; Blazheva, D.; Nedelcheva, P.; Vojtek, L.; Hyrsil, P; Antioxidant, antimicrobial and neutrophil-modulating activities of herb extracts. *Acta Biochim Pol* 61(2) (2014) 359-367, ISSN: 0001-527X, IF=1.389.
113. Atanasova, A.; Denev, P.; Tringovska, I.; Grozeva, S.; Ganeva, D.; Kratchanova, M.; Panchev, I.; Optimization of the key parameters for extraction of polyphenol compounds from tomato fruits (*Solanum lycopersicum* L.). Kinetics of the process. *Bulg Chem Commun* 46 (2014) 65-70, ISSN: 0324-1130, IF=0.349.
114. Nikolova, M.; Kratchanova, M.; Pavlova, E.; Ianakieva, I.; Kussovski, V.; Purification and biological activity of pectic polysaccharides from leek. *Bulg Chem Commun* 46 (2014) 71-78, ISSN: 0324-1130 (IF=0.349).

115. Ognyanov, M.; Georgiev, Y.; Yanakieva, I.; Kussovski, V.; Kratchanova M.; Chemical composition and anti-complementary activity of enzyme-modified citrus pectins. *Bulg Chem Commun*, 46 (2014) 79-87, ISSN: 0324-1130, (IF=0.349).
116. Pavlova, V.; Alexieva, B.; Sainova, I.; Markova, T.; Nikolova, E.; Kuzmanova, S.; Krachanova, M.; Denev, P.; Transmission electron microscope study of the ameliorating effect of Aronia melanocarpa on doxorubicin-induced cardiotoxicity. *Int J Pharm Chem Biol Sci* 4 (2014) 460-465, ISSN: 2249- 9504.
117. Prasanth, C. S.; Karunakaran, S.; Paul, A.; Kussovski, V.; Mantareva, V.; Ramaiah, D.; Selvaraj, L.; Angelov, I.; Krishnankutty, N.; Avramov, L.; Subhash, N.; Antimicrobial Photodynamic Efficiency of Novel Cationic Porphyrins towards Periodontal Gram-positive and Gram-negative Pathogenic Bacteria, *Photochemistry and Photobiology* 90 (2014) 628-640, ISSN: 1751-1097, IF=2.29.
118. Kindekov, I.; Mileva, M.; Krastev, D.; Vassilieva, V.; Raynova, Y.; Doumanova, L.; Aljakov, M.; Idakieva, K.; Radioprotective effect of *Rapana thomasiana* hemocyanin in gamma induced acute radiation syndrome, *Biotechnology & Biotechnological Equipment* 28 (2014) 533-539, ISSN:1310-2818, IF=0.379.
119. Gesheva, V.; Chausheva, S.; Mihaylova, N.; Manoylov, I.; Doumanova, L.; Idakieva, K.; Tchorbanov, A.; Anti-cancer properties of gastropodan hemocyanins in murine model of colon carcinoma, *BMC Immunology* 15 (2014) 34-44, ISSN:1471-2172, IF=2.246.
120. Raynova, Y.; Todinova, S.; Yordanov, D.; Idakieva, K.; SDS-induced phenoloxidase activity of *Helix aspersa* maxima hemocyanin, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 111-116, ISSN: 0324-1130, IF=0.32.
121. Guncheva, M.; Paunova, K.; Dimitrov, M.; Yancheva, D.; Stabilization of *Candida rugosa* lipase on nanosized zirconia-based materials, *Journal of Molecular Catalysis B: Enzymatic* 108 (2014) 43-50, ISSN: 1381-1177, IF=2.823.
122. Guncheva, M.; Dimitrov, M.; Napoly, F.; Draye, M.; Andrioletti, B.; Novel Hybrid Materials on the Basis of Nanostructured Tin Dioxide and a Lipase from *Rhizopus delemar* with Improved Enantioselectivity, *Journal of Molecular Catalysis B: Enzymatic* 102 (2014) 72-80, ISSN: 1381-1177, IF=2.823.
123. Hristov, A.; Christova, N.; Nacheva, L.; Stoineva, I.; Kabaivanova, L.; Biodegradation potential of *Nocardia farcinica* BN26 for xenobiotics mineralization, *Comptes Rendus De L Academie Bulgare Des Sciences* 67 (2014) 821-830, ISSN: 1310-1331, IF=0.198.
124. Terziyski, I.; Alexandrova, L.; Stoineva, I.; Christova, N.; Todorov, R.; Cohen, R.; Foam and wetting films from rhamnolipids produced by *Pseudomonas aeruginosa* BN10. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 460 (2014) 299-305, ISSN: 0927-7757, IF=2.424.
125. Antonova, O.; Dolashka, P.; Toncheva, D.; Rammensee, H.-G.; Stevanovic, S. In vitro Antiproliferative Effect of *Helix aspersa* Hemocyanin on Multiple Malignant Cell Lines. *Zeitschrift für Naturforschung C* 69c (2014) 325 -334, ISSN: 0939-5075, IF= 0.569.

126. Abrashev, R.; Stoitsova, S.; Krumova, E.; Pashova, S.; Paunova-Krasteva, T.; Vassilev, S.; Dolashka-Angelova, P.; Angelova, M. Temperature-stress tolerance of the fungal strain *Aspergillus niger* 26: physiological and ultrastructural changes. *World Journal of Microbiology and Biotechnology* 30 (2014) 1661-1668, ISSN: 1573-0972, IF=1.353
127. Mojzych, M.; Dolashki, A.; Voelter, W. Synthesis of pyrazolo[4,3-e][1,2,4]triazine sulfonamides, novel Sildenafil analogs with tyrosinase inhibitory activity. *Bioorganic and Medicinal Chemistry* 22 (2014) 6616-6624. ISSN: 0968-0896, IF=2.951
128. Dolashka, P.; Nesterova, N.; Zagorodnya, S.; Dolashki, A.; Baranova, G.; Golovan, A.; Voelter, W. Antiviral activity of hemocyanins *Rapana venosa* and Its Isoforms Against Epstein-Barr Virus. *Global Journal of Pharmacology* 8 (2014) 206-212, ISSN: 1992-0075.

Приети за печат през 2014 г.

1. Kurteva, V. B.; Petrova, M. A.; Synthesis of 3-methyl-4-(4-methylbenzoyl)-1-phenyl-pyrazol-5-one. How to avoid O-acylation, *Journal of Chemical Education*; Doi: 10.1021/ed5000636. ISSN: 0021-9584 (Print), 1938-1328 (On line), IF=1.001.
2. Antonov, L.; Deneva, V.; Simeonov, S.; Kurteva, V.; Crochet, A.; Fromm, K. M.; Shivachev, B.; Nikolova, R.; Savarese, M.; Adamo, C.; Controlled tautomeric switching in azonaphthols - tune by substituents in the phenyl ring, *ChemPhysChem*; Doi: 10.1002/cphc.201402691. ISSN: 1439-7641, IF=3.360.
3. Ivanov, P.; Atanassov, E.; Jaime, C.; Computational study on the intramolecular self-organization of the macrorings of some 'giant' cyclodextrins (CD_n, n=40, 70, 85, 100), *Organic and Biomolecular Chemistry*; Doi: 10.1039/c4ob02218a. ISSN: 1477-0520(printed), 1477-0539 (electronic), IF=3.487.
4. Vasilev, A.; Lesev, N.; Deligeorgiev, T.; Dimitrova, S.; Nedelcheva-Veleva, M.; Stoyanov, S.; Angelova, S.; Bright fluorescent dsDNA probes: Novel polycationic asymmetric monomethine cyanine dyes based on thiazolopyridine-quinolinium chromophore, *Coloration Technology*, accepted, ISSN: 1472-3571, IF=1.173.
5. Gyurkovska, V.; Philipov, S.; Kostova, N.; Ivanovska, N. Acetylated derivative of glaucine inhibits joint inflammation in collagenase-induced arthritis, *Immunopharm. Immunotox.* Doi:10.3109/08923973.2014.972414. ISSN: 1532-2513 (electronic), IF=1.36.
6. Doncheva, T.; Amgalan, S.; Kostova, N.; Gerelt-Od, Y.; Dangaa, S.; Philipov, S.; Leptopyrine, new alkaloid from *Leptopyrum fumarioides* L. (Ranunculaceae), *Natural Product Research*. Doi: 10.1080/14786419.2014.991322. ISSN: 1478-6419, IF=1.225.
7. Zahmanov, G; Alipieva, K.; Denev, P.; Todorov, D.; Hinkov, A.; Shishkov, S.; Simova, S.; Georgiev, M. I.; Flavonoid glycosides profiling in dwarf elder fruits (*Sambucus ebulus* L.) and evaluation of their antioxidant and anti-herpes simplex activities. *Industrial Crops and Products*. Doi: 10.1016/j.indcrop.2014.10.053. ISSN:0926-6690, IF=3.208

8. Markova, N. V.; Batovska, D. I.; Kozuharova, E. K.; Enchev, V. G.; Anti-conjunctivitis effect of fresh juice of xGraptoveria (Crassulaceae) – a phytochemical and ethnobotanical study, *Journal of Intercultural Ethnopharmacology*. Doi: 10.5455/jice.20141104014605. ISSN: 2146-8397.
9. Luong, T. K. N.; Shestakova, P.; Mihaylov, Tz.; Absillis, G.; Pierloot, K.; Parac-Vogt, T. N.; Multinuclear diffusion NMR Spectroscopy and DFT modeling: a powerful combination for unraveling the mechanism of phosphoester bond hydrolysis catalyzed by metal-substituted polyoxometalates, *Chemistry - A European Journal*, accepted, ISSN: 1521-3765, IF=5.696.
10. Kancheva, V. D.; Slavova-Kazakova, A.; Terzieva, A.; Tsrunchev, Ts.; Ivanova, M.; Assess the potential of some traditional Bulgarian teas to scavenge free radicals and to exhibit antioxidant activity after gamma-irradiation, *Rivista Italiana Delle Sostanze Grasse*, ISSN: 0035-6808, IF=0.4.
11. Janiak, M.; Slavova-Kazakova, A.; Kancheva, V.; Amarowicz, R.; Sephadex LH-20 column chromatography of the hydrolysed lignan macromolecule of flaxseed, *Bulgarian Chemical Communications*, ISSN: 0324-1130, IF=0.3.
12. Momchilova, Sv.; Arpadjan, S.; Blagoeva, E.; Accumulation of Microelements (Cd, Cu, Fe, Mn, Pb, Zn) in Walnuts (*Juglans regia* L.) from Bulgaria Depending on the Cultivar and the Harvesting Year, *Bulgarian Chemical Communications*, ISSN: 0324-1130, IF=0.3.
13. Dolashki, A.; Radkova, M.; Todorovska, E.; Ivanov, M.; Stevanovic, S.; Molin, L.; Traldi, P.; Voelter, W.; Dolashka, P. Structure and Characterization of *Cancer pagurus* Hemocyanin. *Marine Biotechnology*; Doi: 10.1007/s10126-014-9609-5, ISSN: 1436-2228, IF=3.152.
14. Christova, N.; Lang, S.; Wray, V.; Kaloyanov, K.; Konstantinov, S.; Stoineva, I.; Production, structural elucidation and in vitro antitumor activity of trehalose lipid biosurfactant from *Nocardia farcinica* strain. *Journal of microbiology and biotechnology*. ISSN: 1017-7825, IF=1.320.
15. Mantareva, V.; Eneva, I.; Kussovski, V.; Borisova, E.; Angelov, I.; Antimicrobial photodisinfection with Zn(II) phthalocyanine adsorbed on TiO₂ upon UVA and red irradiation, *Proceedings of SPIE - ISQE: Laser Physics and Applications*. ISSN: 0277-786X (printed). ISSN: 1996-756X (electronic).
16. Todorova, M.; Trendafilova, A.; Krumova, S.; Idakieva, K.; Genova, V.; Markovska, Y.; Raynova, Y.; Evstatieva, L.; Wolfram, E.; Danova, K.; Interdisciplinary interaction for the biotechnological development of Balkan medicinal plant species, *Proceedings of the Seminar of Ecology, Sofia*.
17. Mihaylova, B.; Goshev, I.; Atanasova, L.; In vitro determination of antioxidant capacity of pea (*Pisum Sativum*) L. CV.RAN plants *Proceedings of the Seminar of Ecology, Sofia*.

Научни статии с IF и SJR

Излезли от печат през 2014 г.

1. Kurteva, V. B.; Lubenov, L. A.; Antonova, D. V.; On the mechanism of the direct acid catalyzed formation of 2,3-disubstituted imidazo[1,2-a]pyridines from 2-aminopyridines and acetophenones. A concurrence between ketimine and Ortoleva-King type reaction intermediated transformations, *RSC Advances* 4 (2014) 175-184; ISSN: 2046-2069, IF=3.708.
2. Petrova, M.; Kurteva, V.; Synergistic efficiency of 2-[(1-aza-15-crown-5)-1-ylmethyl]-4-(phenyldiazenyl)-naphthalen-1-ol in the liquid extraction of light lanthanoid(III) ions with 4-benzoyl-3-phenyl-5-isoxazolone. The Role of aza-crown and azo-dye fragments on the extraction ability, *Journal of Chemical and Engineering Data* 59 (2014) 1295-1303; ISSN: 0021-9568 (Print), 1520-5134 (On line), IF=2.045.
3. Kurteva, V. B.; Lubenov, L. A.; Simova, S. D.; 2,3-Disubstituted imidazo[1,2-a]pyridines from 2-aminopyridines and acetophenones. Catalyst's efficiency and solid state NMR study, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 47-52; ISSN: 0324-1130, IF=0.349.
4. Atanassova, M.; Kurteva, V.; Lubenov, L.; Billard, I.; Comparing extraction, synergism and separation of lanthanoids by use of acidic and neutral compounds in chloroform and one ionic liquid: Is the latter always "better"?, *RSC Advances* 4 (2014) 38820-38829; ISSN: 2046-2069, IF=3.708.
5. Frade, R. F. M.; Coelho, J. A. S.; Simeonov, S. P.; Afonso, C. A. M.; An emerging platform from renewable resources: Selection guidelines for human exposure of furfural-related compounds, *Toxicology Research* 3 (2014) 311-314, ISSN: 2045452X, IF=3.273
6. Martins, A. N. C.; Simeonov, S. P.; Frija, L. M. T.; Viveiros, R.; Lourenço, A.; Silva, M. S. D.; Casimiro, T.; Afonso, C. A. M.; Isolation, analytical quantification and seasonal variation of labdanolic acid from the Portuguese-grown *Cistus ladaniferus*, *Industrial Crops and Products* 60 (2014) 226-232, ISSN: 09266690, IF=3.208.
7. Ivanov, P.; Atanassov, E.; Jaime, C.; Computational study on the conformations of CD38 and inclusion complexes of some lower-size large ring cyclodextrins, *Journal of Molecular Structure* 1056-1057 (2014) 238-245. ISSN: 0022-2860, IF=1.599.
8. Ivanov, P.; Pojarlieff, I. Simova, S.; Velinov, G.; Interaction between charged groups. pK-values and conformations of the diastereoisomers of 3-amino-2,3-diphenylpropanoic acids and their ester and N-acetyl derivatives, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 9-15. ISSN: 0324-1130, IF=0.349.
9. Ivanov, P.; Further studies on the conformations of large-ring cyclodextrins, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 238-245. ISSN: 0324-1130, IF=0.349.
10. Philipova, I.; Stavrakov, G.; Dimitrov, V.; Phosphino-carboxamide hybrid ligands with a camphane scaffold for Pd-catalyzed asymmetric allylic alkylation, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 21-26. ISSN: 1310-1331, IF=0.349.

11. Stavrov, G.; Philipova, I.; Valcheva, V.; Momekov, G.; Synthesis and antimycobacterial activity of bornylamine derived amido-alcohols, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 27-32. ISSN: 1310-1331, IF=0.349.
12. Stavrov, G.; Philipova, I.; Valcheva, V.; Momekov, G.; Synthesis and antimycobacterial activity of novel camphane-based agents, *Bioorganic and Medicinal Chemistry Letters* 24 (2014) 165-167. ISSN: 0960-894X, IF=2.331.
13. Stavrov, G.; Valcheva, V.; Philipova, I.; Doytchinova, I.; Design of novel camphane-based derivatives with antimycobacterial activity, *Journal of Molecular Graphics and Modeling* 51 (2014) 7-12. ISSN: 1093-3263. IF=2.022.
14. Hansen, P. E.; Kamounah, F. S.; Zhiryakova, D.; Manolova, Y.; Antonov, L.; 1,1',1''-(2,4,6-Trihydroxybenzene-1,3,5-triyl)triethanone tautomerism revisited, *Tetrahedron Letters* 55 (2014) 354-357; ISSN: 0040-4039(printed), 1873-3581(electronic), IF=2.391.
15. Ali, S. T.; Antonov, L.; Fabian, W. M. F.; Phenol–Quinone Tautomerism in (Arylazo) naphthols and the Analogous Schiff Bases: Benchmark Calculations, *Journal of Physical Chemistry A* 118 (2014) 778-789. ISSN: 1089-5639, IF=2.775.
16. Drakalska, E.; Momekova, D.; Manolova, Y.; Budurova, D.; Momekov, G.; Genova, M.; Antonov, L.; Lambov, N.; Rangelov, S.; Hybrid liposomal polyoxyethylated calyx[4]arene system as a drug delivery platform for curcumin, *International Journal of Pharmaceutics* 472 (2014) 165-174; ISSN: 03785173, IF=2.142.
17. Manolova, Y.; Deneva, V.; Antonov, L.; Drakalska, E.; Momekova, D.; Lambov, N.; The effect of water on the curcumin tautomerism: a quantitative approach, *Spectrochimica Acta Part A* 132 (2014) 815-820; ISSN: 1386-1425. IF=2.129.
18. Kawauchi, S.; Antonov, L.; Okuno, Y.; Prediction of the color of dyes by using time-dependent density functional theory, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 228-237; ISSN: 0324-1130. IF=0.349.
19. Petkova, Z.; Valcheva, V.; Momekov, G.; Petrov, P.; Dimitrov, V.; Doytchinova, I.; Stavrov, G.; Stoyanova, M.; Antimycobacterial activity of chiral aminoalcohols with camphane scaffold, *European Journal of Medicinal Chemistry* 81 (2014) 150-157. ISSN: 0009-4374, IF=3.432.
20. Dobrikov, G. M.; Valcheva, V.; Nikolova, Y.; Ugrinova, I.; Pasheva, E.; Dimitrov, V.; Enantiopure antituberculosis candidates synthesized from (-)-fenchone, *European Journal of Medicinal Chemistry* 77 (2014) 243-247. ISSN: 0009-4374, IF=3.432.
21. Petkova, Z.; Stoyanova, M.; Dimitrov, V.; Palladium-catalyzed allylic alkylation using chiral P,O-ligands synthesized via sulfonamide directed *ortho*-lithiation, *Tetrahedron Letters* 55 (2014) 2093–2096. ISSN: 0957-4166, IF=2.165.
22. Dimitrov, V.; Catalytic method for synthesis of Grignard compounds with magnesium attached to tertiary bridge head C-atom, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 16-20. ISSN: 0324-1130, IF=0.349.
23. Dikova, K.; Kamenova-Nacheva, M.; Kostova, K.; Dimitrov, V.; Enantioselective addition of diethylzinc to ferrocene carbaldehyde – reaction outcome by using natural compound based catalysts, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 33-38. ISSN: 0324-1130, IF=0.349.

24. Slavchev, I.; Dobrikov, G. M.; Valcheva, V.; Ugrinova, I.; Pasheva, E.; Dimitrov, V.; Antimycobacterial activity generated by the amide coupling of (-)-fenchone derived aminoalcohol with cinnamic acids and analogues, *Bioorganic and Medicinal Chemistry Letters* 24 (2014) 5030–5033. ISSN: 0960-894X, IF=2.331.
25. Pejović, A.; Denić, M. S.; Stevanović, D.; Damljanović, I.; Vukićević, M.; Kostova, K.; Tavlinova-Kirilova, M.; Randjelović, P.; Stojanović, N. M.; Bogdanović, G.A.; Blagojević, P.; D'hooghe, M.; Radulović, N. S.; Vukićević, R. D.; Discovery of anxiolytic 2-ferrocenyl-1,3-thiazolidin-4-ones exerting GABAA receptor interaction via the benzodiazepine-binding site, *European Journal of Medicinal Chemistry* 83 (2014) 57-73. ISSN: 0009-4374, IF=3.432.
26. Mavrova, A. T.; Wesselinova, D.; Tsenov, J. A.; Lubenov, L. A.; Synthesis and antiproliferative activity of some new thieno[2,3-d]pyrimidin-4(3H)-ones containing 1,2,4-triazole and 1,3,4-thiadiazole moiety, *European Journal of Medicinal Chemistry* 86 (2014) 676-683. ISSN: 0223-5234, IF=4.07.
27. Smelcerovic, A.; Pavlovic, V.; Dzodic, P.; Cherneva, E.; Yancheva, D.; Cyclodipeptides with a promising scaffold in medicinal chemistry, *Amino acids* 46 (2014) 825-840. ISSN: 0939-4451, IF=3.65.
28. Kolarevic, A.; Yancheva, D.; Kocic, G.; Smelcerovic, A.; Deoxyribonucleases inhibitors, *European Journal of Medicinal Chemistry* 88 (2014) 101-111. ISSN: 0223-5234, IF=4.07.
29. Zvezdanovic, J.; Daskalova, L.; Yancheva, D.; Cvetkovic, D.; Markovic, D.; Anderluh, M.; Smelcerovic, A.; 2-Amino-5-alkylidenethiazol-4-ones as promising lipid peroxidation inhibitors, *Monatshefte fur Chemie* 145 (2014) 945-952. ISSN: 0026-9247, IF=1.34.
30. Glavcheva, Z. I.; Yancheva, D. Y.; Kancheva, Y. K.; Velcheva, E. A.; Stamboliyska, B. A.; Development of FTIR spectra database of reference art and archaeological materials, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 164-169. ISSN: 0324-1130, IF=0.34.
31. Stoyanov, S. S.; Yancheva, D. Y.; Stamboliyska, B. A.; DFT study on IR spectral and structural changes caused by the conversion of substituted benzophenones into ketyl radicals, *Computational and Theoretical Chemistry* 1046 (2014) 57-60. ISSN: 2210-271X, IF=1.37.
32. Yancheva, D.; Stoyanov, S.; Stamboliyska, B.; Daskalova, L.; Cherneva, E.; Smelcerovic, A.; Influence of the environment on the antioxidant action of two 6-(propan-2-yl)-4-methyl-morpholine-2,5-diones, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 179-186. ISSN: 0324-1130, IF=0.34.
33. Popova, A.; Stamboliyska, B.; Velcheva, E.; Experimental and DFT studies on the IR spectral and structural changes arising from the conversion of 4-amino-N-[amino(imino)methyl] benzenesulfon amide (sulfaguanidine) into azanion, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 149-156. ISSN: 0324-1130, IF=0.34
34. Popova, A.; Velcheva, E.; IR spectral and structural changes, caused by the conversion of 4-cyanobenzenosulfonamide into azanion, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 157-163. ISSN: 0324-1130, IF=0.34.

35. Stoyanov, S. S.; Tsenov, J. A.; IR spectra and structure of 1,1,3,3-tetracyanopropane and its carbanions: experimental and quantum chemical study, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 170-178. ISSN: 0324-1130, IF=0.34.
36. Mihályi, M.; Kollár, M.; Klébert, S.; Mavrodinova, V.; Transformation of ethylbenzene-m-xylene feed over MCM-22 zeolites with different acidities, *Applied Catalysis A: General* 476 (2014) 19-25. ISSN: 0926-860X, IF=3.56.
37. Mihályi, M.; Klébert, Sz.; Kollár, M.; Mavrodinova, V.; Transformation of ethylbenzene – m-xylene mixture on zeolites with different structures, *Journal Porous Materials* 21 (2014) 485-493. ISSN: 1380-2224, IF=0.79.
38. Dimitrov, M.; Guncheva, M.; Zhiryakova, D.; Lazarova, T.; Lalev, G.; Tsoncheva, T.; Nanostructured tin dioxide - a promising multipurpose support material for catalytic and biocatalytic applications, *Chemical Engineering Journal* 252 (2014) 55-63, ISSN: 1385-8947, IF=4.058.
39. Tsoncheva, T.; Genova, I; Tsyntsarski, B; Dimitrov, M.; Paneva, D.; Cherkezova-Zheleva, Z.; Budinova, T.; Ivanova, R.; Mitov, I.; Petrov, N.; Cobalt and iron modified activated carbon from coal tar pitch: preparation and application as catalysts for methanol decomposition, *Journal Porous Mater* 21(2014) 503-512. ISSN: 1380-2224, IF=0.79.
40. Genova, I.; Tsoncheva, T.; Dimitrov, M.; Paneva, D.; Tsintsarski, B.; Ivanova, R.; Cherkezova-Zheleva, Z.; Budinova, T.; Kovacheva, D.; Mitov, I.; Petrov, N., Cobalt ferrite nanoparticles hosted in activated carbon from renewable sources as catalyst for methanol decomposition, *Catalysis Communications* 55 (2014) 43-48. ISSN: 1566-7367, IF=3.37.
41. Tsoncheva, T.; Gallo, A.; Genova, I.; Spassova, I.; Marelli, M.; Dimitrov, M. ; Khristova, M.; Atanasova, G.; Kovacheva, D.; Nihtyanova, D. ; Dal Santo, V.; Control of copper particles deposition in mesoporous SBA-15 silica by modified CVD method, *Inorganica Chimica Acta* 423 (2014) 145-151. ISSN: 0020-1693, IF=2.0.
42. Genova, I.; Tsyntsarski, B.; Dimitrov, M.; Paneva, D.; Kovacheva, D.; Budinova, T.; Ivanova, R.; Mitov, I.; Petrov, N.; Tsoncheva, T.; Cobalt and iron modified activated carbons from renewable sources as catalysts in methanol decomposition: Effect of the precursor *Bulgarian Chemical Communications 46 Special Issue A* (2014) 134-140. ISSN: 0861-9808, IF=0.32.
43. Tsoncheva, T., Genova, I.; Dimitrov, M.; Sarcadi-Priboczki, E.; Venezia, A.M.; Kovacheva, D; Scotti, N; Dal Santo, V.; Nanostructured copper-zirconia composites as catalysts for methanol decomposition, *Applied Catalysis B: Environmental* 165 (2015) 599–610. ISSN: 0926-3373, IF=6.42.
44. Velinov, N.; Koleva, K.; Tsoncheva, T.; Paneva, D.; Manova, E.; Tenchev, K.; Kunev, B.; Genova, I.; Mitov, I. ; Copper-cobalt ferrites as catalysts for methanol decomposition, *Central European Journal of Chemistry* 12 (2014) 250-259. ISSN: 1644-3624, IF=1.33.
45. Koleva, K.; Velinov, N.; Tsoncheva, T.; Mitov, I.; Mössbauer study of $Cu_{1-x}Zn_xFe_2O_4$ catalytic materials, *Hyperfine interaction* 26 (2014) 89-97. ISSN: 0304-3843, IF=0.21.

46. Tsoncheva, T.; Genova, I.; Stoyanova, M.; Pohl, M. M.; Nickolov, R.; Dimitrov, M.; Sarcadi-Priboczki, E.; Mihaylov, M.; Kovacheva, D.; Hadjiivanov, K.; Effect of mesoporous silica topology on the formation of active sites in copper supported catalysts for methanol decomposition, *Applied Catalysis B: Environmental* 147 (2014) 684-697. ISSN: 0926-3373, IF=6.42.
47. Tsyntsarski, B.; Petrova, B.; Budinova, T.; Petrov, N.; Teodosiev, D. K.; Sarbu, A.; Sandu, T.; Ferhat Yardim, M.; Sirkecioglu, A.; Removal of detergents from water by adsorption on activated carbons obtained from various precursors, *Desalination and Water Treatment* 52 (2014) 3445-3452. ISSN:1944-3994, E-ISSN:1944-3986, IF=0.987.
48. Racheva, I. G.; Tsyntsarski, B. G.; Petrova, B. N.; Budinova, T. K.; Petrov, N. V.; Nagel, B.; Pusz, S.; Szeluga U.; Conversion of polyolefin wax to carbon adsorbents by thermooxidation treatment; *Bulgarian Chemical Communications 46 Special Issue A* (2014) 129-133. ISSN: 0861-9808, IF=0.349.
49. Tsyntsarski, B.; Petrova, B.; Budinova, T.; Petrov, N.; Sarbu, A.; Sandu, T.; Ferhat Yardim, M. F.; Sirkecioglu, A.; Removal of detergents by zeolites and membranes; *Bulgarian Chemical Communications 46* (2014) 157-164. ISSN: 0861-9808, IF: 0.349.
50. Tsyntsarski, B. G.; Petrova, B. N.; Budinova, T. K.; Petrov, N. V.; Teodosiev, D. K.; Removal of phenol from contaminated water by activated carbon, produced from waste coal material, *Bulgarian Chemical Communications 46* (2014) 353-361. ISSN: 0861-9808, IF=0.349.
51. Budinova, T.; Huang, W. P-L.; Racheva, I.; Tsyntsarski, B.; Petrova, B.; Ferhat Yardim, M.; Investigation of kerogen transformation during pyrolysis by applying a diamond anvil cell, *Oil Shale 31* (2014) 121-131. ISSN: 0208-189X, IF=0.838.
52. Butuzova, L.; Makovskyi, R.; Budinova, T.; Marinov, S. P.; EPR and IR studies on the role of coal genetic type in plastic layer formation, *Fuel Processing Technology 125* (2014) 246-250. ISSN: 0378-3820, IF=3.019.
53. Sandu, T.; Sarbu, A.; Damian, C. M.; Marin, A.; Vulpe, S.; Budinova, T.; Tsyntsarski, B.; Ferhat Yardim, M.; Sirkecioglu, A.; Preparation and characterization of membranes obtained from blends of acrylonitrile copolymers with poly(vinyl alcohol), *Journal of Applied Polymer Science 131* (2014) 41013. ISSN:0021-8995, E-ISSN:1097-4628, IF=1.400.
54. Grigorova, E.; Spassova, M.; Khristov, M.; Tsyntsarski, B.; Spassov, T.; High-pressure DSC study on the hydriding and dehydriding of Mg/C nanocomposites, *Journal of Thermal Analysis and Calorimetry 116* (2014) 265-272. ISSN: 1388-6150, E-ISSN: 1588-2926, IF=2.206.
55. Gonsalvesh, L.; Stefanova, M.; Marinov S. P.; Carleer, R.; Yperman, J; Geochemical study of maltenes from coal biodesulphurisation, *Fuel 135* (2014) 332-339. ISSN: 0016-2361, IF=3.406.
56. Stefanova, M.; Gonsalvesh, L.; Marinov S. P.; Czech, J.; Carleer, R.; Yperman, J; Reductive pyrolysis of leonardite humic acids, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 123-128. ISSN: 0324-1130, IF=0.349.
57. Stefanova, M; Organic matter composition of Pirin coal studied by methods of organic geochemistry, *Comptes rendus de l'Academie bulgare des Sciences 67* (2014) 387-394. ISSN: 1310-1331, IF=0.198.

58. Popova, M.; Ristic, A.; Mazaj, M.; Maučec, D.; Dimitrov, M.; Novak Tušar, N.; Effect of autoreduction of copper on FeKIL-2 silica catalytic activity in toluene oxidation, *ChemCatChem* 6 (1) (2014) 271-277; ISSN: 1867-3880, IF=5.04.
59. Popova, M.; Ristić, A.; Mavrodinova, V.; Maučec, D.; Mindizova, L.; Novak Tušar, N.; Design of Cobalt Functionalized Silica with Interparticle Mesoporosity as a Promising Catalyst for VOCs Decomposition, *Catal. Lett.* 144 (6) (2014) 1096-1100; ISSN: 1011-372X, IF=2.29.
60. Popova, M.; Szegedi, Á.; Mavrodinova, V.; Mihály, J.; Klébert, Sz.; Benbassat, N.; Yoncheva, K.; Preparation of resveratrol-loaded nanoporous silica materials with different structures, *J. Solid State Chem.* 219 (2014) 37-42; ISSN: 1095-726X, IF=2.2
61. Popova, M.; Yoncheva, K.; Szegedi, Á.; Kalvachev, Y.; Benbassat, N.; Mavrodinova, V.; Resveratrol loading on mesoporous silica and zeolite carriers by solid state method, *Bulg. Chem. Commun.* 46 (special issue A) (2014) 117-122; ISSN: 0324-1130, IF=0.32.
62. Yoncheva, K.; Popova, M.; Szegedi, Á.; Mihály, J.; Tzankov, B.; Lambov, N.; Konstantinov, S.; Tzankova, V.; Pessinad, F.; Valoti, M.; Functionalized mesoporous silica nanoparticles for oral delivery of budesonide, *J. Solid State Chem.* 211 (2014) 154-161; ISSN: 1095-726X, IF=2.2.
63. Szegedi, Á.; Popova, M.; Yoncheva, K.; Makk, J.; Mihály, J.; Shestakova, P.; Silver and sulfadiazine loaded nanostructured silica materials as potential replacement of silver-sulfadiazine, *Journal of Materials Chemistry B* 2 (2014) 6283-6293; ISSN 2050-750X, IF=6.63.
64. Popova, M.; Szegedi, Á.; Yoncheva, K.; Konstantinov, S.; Petrova, G. P.; Aleksandrov, H.A.; Vayssilov, G.N.; Shestakova, P.; New method for preparation of delivery systems of poorly soluble drugs on the basis of functionalized mesoporous MCM-41 nanoparticles, *Micropor. Mesopor. Mater.* 198 (2014) 247-255; ISSN: 1387-181, IF=3.21.
65. Szegedi, Á.; Popova, M.; Valyon, J.; Guarnaccio, A.; De Stefanis, A.; De Bonis, A.; Orlando, S.; Sansone, M.; Teghil, R.; Santagata, A.; Comparison of silver nanoparticles confined in nanoporous silica prepared by chemical synthesis and by ultra-short pulsed laser ablation in liquid, *Applied Physics A* (2014) 1-8. ISSN: 0947-8396, IF=1.69.
66. Popova, M.; Szegedi, Á.; Ristić, A.; Drotar, E.; Novak Tušar, N.; Glycerol acetylation on mesoporous KIL-2 supported sulphated zirconia catalysts, *Catal. Sci. Technol.* 4 (11) (2014) 3993-4000; ISSN: 2044-4753, IF=4.76.
67. Rangus, M.; Mazaj, M.; Dražić, G.; Popova, M.; Novak Tušar, N.; Disordered mesoporous silica catalyst FeKIL-2 in catalytic oxidation of VOC: active iron sites and diffusion advantages, *Materials* 7 (2014) 4243-4257; ISSN 1996-1944, IF=1.88.

68. Nénon, S.; Champagne, B.; Spassova, M. I.; Assessing long-range corrected functionals with physically-adjusted range-separated parameter for calculating the polarizability and the second hyperpolarizability of polydiacetylene and polybutatriene chains, *Physical Chemistry Chemical Physics* 16 (2014) 7083-7088, ISSN: 1463-9076, IF=4.198.
69. Marinov, M.; Stoyanov, N.; Ugrinov, A.; Angelova, S.; Wawer, I.; Pisklak, M.; Enchev, V.; Solid state structure of 2-(4-hydroxyphenyl)-substituted phenalene-1,3-dione and indan-1,3-dione, *Journal of Structural Chemistry* 55 (2014) 446-455, ISSN: 0022-4766, IF=0.501.
70. Marinov, M.; Marinova, P.; Stoyanov, N.; Markova, N.; Enchev, V.; Synthesis of 3',4'-dihydro-2*H*,2'*H*,5*H*-spiro[imidazolidine-4,1'-naphthalene]-2,5-dione and its derivatives, *Acta Chimica Slovenica* 61 (2014) 420-424, ISSN: 1318-0207, IF=1.135.
71. Angelova, S. E.; Slavova-Kazakova, A. K.; Saso, L.; Malhotra, S. V.; Prasad, A. K.; Bracke, M. E.; Parmar, V. S.; Kancheva, V. D.; DFT/B3LYP calculated bond-dissociation enthalpies, radical-scavenging and antioxidant activities of natural-like coumarins, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 187-195, ISSN: 0324-1130, IF=0.320.
72. Bakalova, S. M.; Gil Santos, A.; Diels–Alder Reactions of Chiral Isoimidium Salts: A Computational Study, *Journal of Organic Chemistry* 79 (2014) 8202-8211, ISSN: 0022-3263, IF=4.638.
73. Todorova, M.; Trendafilova, A.; *Sideritis scardica* Griseb, an endemic species of Balkan peninsula: Traditional uses, cultivation, chemical composition, biological activity, *Journal of Ethnopharmacol* 152 (2014) 156-165, ISSN: 0378-8741, IF= 2.939.
74. Trendafilova, A.; Todorova, M.; Genova, V.; Shestakova, P.; Dimitrov, D.; Jadranin, M.; Milosavljevic, S.; New pseudoguaiane derivatives from *Inula aschersoniana* Janka var. *aschersoniana*, *Natural Product Communications* 9 (2014) 1123-1124, ISSN: 1934-578X, IF= 0.924.
75. Popova, M.; Reyes, M.; Le Conte, Y.; Bankova, V.; Propolis chemical composition and honey bee resistance against *Varroa destructor*. *Natural Product Research* 28 (2014), 788-792, ISSN 1478-6419 (Print), 1478-6427 (Online).IF = 1.225.
76. Bankova, V.; Popova, M.; Trusheva, B.; Propolis volatile compounds: chemical diversity and biological activity: a review. *Chemistry Central Journal* 8 (2014) 28, ISSN: 1752-153X, IF = 1.66.
77. Bankova, V.; Galabov, A. S.; Antonova, D.; Vilhelmova, N.; Di Perri, B.; Chemical composition of propolis extract ACF[®] and activity against herpes simplex virus. *Phytomedicine*, 21 (2014), 1432-14338, ISSN: 0944-7113, IF = 2.877.
78. Popova, M.; Stoyanova, A.; Valyovska-Popova, N.; Bankova, V.; Peev, D.; A new coumarin and total phenolic and flavonoids content of Bulgarian celeriac. *Bulgarian Chemical Communications* 46 Special Issue A (2014), 88-93. ISSN 0324-1130, IF= 0.349.
79. Doncheva, T.; Kostova, N.; Antonova, A.; Tashev, A.; Philipov, S. Alkaloids from *Papaver degenii* (Urum. et Jav), *Comptes rendus de l'Academie bulgare des Sciences* 67 (2014) 339-342. ISSN: 1310-1331, IF=0.198.

80. Doncheva, T.; Kostova, N.; Yordanova, G.; Saadi, H.; Akrib, F.; Dimitrov, D.; Philipov, S. Comparison of alkaloid profile from *Glaucium corniculatum* (Papaveraceae) of Algerian and Bulgarian origin, *Biochemical Systematics and Ecology* 56 (2014) 278-280. ISSN: 0305-1978, IF=1.269.
81. Alipieva, K.; Orhan, I. E.; Tatli, I. I.; Kostadinova, E. P.; Georgiev, M. I.; Treasure from garden: Chemical profiling, pharmacology and biotechnology of mulleins *Phytochemistry Reviews* 13 (2014) 417-444, ISSN:1572-980X, IF=2.894.
82. Alipieva, K.; Korkina, L.; Orhan, I. E.; Georgiev, M. I.; Verbascoside - A review of its occurrence, (bio)synthesis and pharmacological significance; *Biotechnology Advances* 72 (2014) 1065-1076, ISSN:0734-9750, IF=8.905.
83. Marcoccia, D.; Georgiev, M. I.; Alipieva, K. I.; Lorenzetti, S.; Inhibition of the DHT-induced PSA secretion by *Verbascum xanthophoeniceum* and *Serenoa repens* extracts in human LNCaP prostate epithelial cells; *Journal of Ethnopharmacology* 155 (2014) 616-625, ISSN:0378-8741, IF=2.939.
84. Treneva, G.; Markovska, Y.; Wolfram, E.; Danova, K.; Effect of plant growth regulators on growth patterns and enzymatic antioxidant activities in *Hypericum calycinum* shoot cultures, *Bulgarian Journal of Agricultural Sciences* 20 (2014) 46-50, P-ISSN 1310-0351, IF= 0.136.
85. Mikhova, B.; Janevska, V.; Stamboliyska, B.; Draeger, G.; Popovski, E.; Synthesis and structure of some novel dicoumarinamines, *Bulgarian Chemical Communications* 46 (2014) 135-140, ISSN: 0861-9808, IF=0.320.
86. Jashari, A.; Imeri, F.; Ballazhi, L.; Shabani, A.; Mikhova, B.; Dräger, G.; Popovski, E.; Huwiler, A.; Synthesis and cellular characterization of novel isoxazolo- and thiazolohydrazinylidene-chroman-2,4-diones on cancer and non-cancer cell growth and death, *Bioorganic & Medicinal Chemistry*, 22 (2014) 2655-2661, ISSN: 09680896, IF=3.20.
87. Buzarevski, A.; Mikhova, B.; Popovski, E.; N-[[4-nitrophenyl]amino] methyl] benzamide, *Molbank* (2014) M821, ISSN: 1422-8599, IF=0.3.
88. Angelova, V. T.; Frey, W.; Ivanov, I. C.; Vassilev, N.; Glasnov, T. N.; One-pot synthesis of a chromeno[4,3,2-*de*]-1,6-naphthyridine derivative from 4-chlorocoumarin-3-carbaldehyde, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 53-58, ISSN: 0324-1130, IF=0.320.
89. Bikov, A. Z.; Genova, R. V.; Vassilev, N. G.; Influence of the spin-orientation of free and unpaired protons of ortho-water on the crystallization of the (0 0 1) face of TGS crystal: “in situ” investigation, *Journal of Crystal Growth* 395 (2014) 90-93, ISSN: 0022-0248, IF=1.693.
90. Luong, T. K. N.; Absillis, G.; Shestakova, P.; Parac-Vogt, T. N.; Solution speciation of a dinuclear Zr(IV)-substituted Keggin polyoxometalate [$\{\alpha\text{-PW}_{11}\text{O}_{39}\text{Zr}(\mu\text{-OH})(\text{H}_2\text{O})\}_2\text{O}_8$] and its reactivity towards the hydrolysis of a DNA-model phosphodiester, *European Journal of Inorganic Chemistry* (2014) 5276 – 5284, ISSN: 1099-0682, IF=2.965.
91. Shestakova, P.; Absillis, G.; Martin-Martinez, F. J.; De Proft, F.; Willem, R.; Parac-Vogt, T. N.; Integrating ^{31}P DOSY NMR spectroscopy and molecular mechanics as a powerful tool for unraveling the chemical structures of polyoxomolybdate-based amphiphilic nanohybrids in aqueous solution, *Chemistry - A European Journal* 20 (2014) 5258-5270, ISSN: 1521-3765, IF=5.696.

92. Hardeman, T.; Willot, P.; Winter, J. D.; Josse, T.; Gerbaux, P.; Shestakova, P.; Nies, E.; Koeckelberghs, G.; Study on the formation of a supramolecular conjugated graft copolymer in solution., *Journal of Polymer Science Part A: Polymer Chemistry* 52 (2014) 804-809, ISSN: 1099-0518, IF=3.245.
93. Mitova, V.; Slavcheva, S.; Shestakova, P.; Momekova, D.; Stoyanov, N.; Momekov, G.; Troev, K.; Koseva, N.; Polyphosphoester conjugates of dinuclear platinum complex: synthesis and evaluation of cytotoxic and the proapoptotic activity, *European Journal of Medicinal Chemistry* 72 (2014) 127-136, ISSN: 0223-5234, IF=3.432.
94. Stroobants K.; Absillis, G.; Shestakova, P.; Willem, R.; Parac-Vogt, T. N.; Hydrolysis of tetraglycine by a Zr(IV)-substituted Wells-Dawson polyoxotungstate studied by Diffusion Ordered NMR Spectroscopy, *Journal of Cluster Science* 25 (2014) 855 – 866, ISSN: 1282-8862, IF=1.111.
95. Galabov, B.; Koleva, G.; Simova, S.; Hadjieva, B.; Schaefer III, H.F.; Schleyer, P.V.R.; Arenium ions are not obligatory intermediates in electrophilic aromatic substitution, *Proceedings of the National Academy of Sciences of the USA* 111 (2014) 10067-10072, ISSN: 0027-8424p; 1091-6490o, IF=9.809.
96. Stoyanova, R.; Ivanova, S.; Zhecheva, E.; Samoson, A.; Simova, S.; Tzvetkova, P.; Barra, A.-L.; Correlations between lithium local structure and electrochemistry of layered LiCo_{1-2x}Ni_xMn_xO₂ oxides: 7Li MAS NMR and EPR studies, *PhysChemChemPhys* 16 (2014) 2499-2507, ISSN 1463-9076, IF=4.198.
97. Kancheva, V. D.; Slavova-Kazakova, A.; Janek, M.; Fabbri, D.; Dettori, M. A.; Delogu, G.; Amarowicz, R.; Protective effects of dehidrozingerone and its dimer in equimolar binary and triple mixtures with alpha-tocopherol and/or ascorbyl palmitate, *Food Chemistry* 157 (2014) 263-274, ISSN: 0308-8146, IF=3.9.
98. Nedelcheva-Antonova, D. V.; Tsandeva, K. S.; Dimitrova, R. D.; Determination of benzethonium chloride in grapefruit seed extracts – a GC/MS alternative, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 94-99, ISSN: 0324-1130, IF=0.3.
99. Momchilova, Sv.; Arpadjan, S.; Blagoeva, E.; Distribution of the essential Cu, Fe, Mn and the toxic Cd and Pb microelements between lipid and non-lipid fractions in hazelnuts and walnuts, *Comptes rendus de l'Academie bulgare des Sciences* 67 (2014) 343-348, ISSN: 1310-1331, IF=0.2.
100. Denev, P.; Kratchanova, M.; Ciz, M.; Lojek, A.; Vasicek, O.; Nedelcheva, P.; Blazheva, D.; Toshkova, R.; Gardeva, E.; Yossifova, L.; Hyrsil, P.; Vojtek, L; Biological activities of selected polyphenol-rich fruits related to immunity and gastrointestinal health, *Food Chem* 157 (2014) 37-44, ISSN: 0308-8146, IF=3.259.
101. Lojek, A.; Denev, P.; Ciz, M.; Vasicek, O.; Kratchanova, M.; The effects of biologically active substances in medicinal plants on the metabolic activity of neutrophils, *Phytochem Rev* 13(2) (2014) 499-510, ISSN: 1568-7767, IF=2.894.
102. Kratchanova, M.; Denev, P.; Kratchanov, Ch.; Rosehip extract synergistically increase antioxidant activity of fruit and herb extracts. *Bulg Chem Commun* 46 (2014) 59-64, ISSN: 0324-1130, IF=0.349.

103. Denev, P.; Kratchanova, M.; Ciz, M.; Lojek, A.; Vasicek, O.; Blazheva, D.; Nedelcheva, P.; Vojtek, L.; Hyrs, P; Antioxidant, antimicrobial and neutrophil-modulating activities of herb extracts. *Acta Biochim Pol* 61(2) (2014) 359-367, ISSN: 0001-527X, IF=1.389.
104. Atanasova, A.; Denev, P.; Tringovska, I.; Grozeva, S.; Ganeva, D.; Kratchanova, M.; Panchev, I.; Optimization of the key parameters for extraction of polyphenol compounds from tomato fruits (*Solanum lycopersicum* L.). Kinetics of the process. *Bulg Chem Commun* 46 (2014) 65-70, ISSN: 0324-1130, IF=0.349.
105. Nikolova, M.; Kratchanova, M.; Pavlova, E.; Ianakieva, I.; Kussovski, V.; Purification and biological activity of pectic polysaccharides from leek. *Bulg Chem Commun* 46 (2014) 71-78, ISSN: 0324-1130 (IF=0.349).
106. Ognyanov, M.; Georgiev, Y.; Yanakieva, I.; Kussovski, V.; Kratchanova M.; Chemical composition and anti-complementary activity of enzyme-modified citrus pectins. *Bulg Chem Commun*, 46 (2014) 79-87, ISSN: 0324-1130, (IF=0.349).
107. Prasanth, C. S.; Karunakaran, S.; Paul, A.; Kussovski, V.; Mantareva, V.; Ramaiah, D.; Selvaraj, L.; Angelov, I.; Krishnankutty, N.; Avramov, L.; Subhash, N.; Antimicrobial Photodynamic Efficiency of Novel Cationic Porphyrins towards Periodontal Gram-positive and Gram-negative Pathogenic Bacteria, *Photochemistry and Photobiology* 90 (2014) 628-640, ISSN: 1751-1097, IF=2.29.
108. Kindekov, I.; Mileva, M.; Krastev, D.; Vassilieva, V.; Raynova, Y.; Doumanova, L.; Aljakov, M.; Idakieva, K.; Radioprotective effect of *Rapana thomasiana* hemocyanin in gamma induced acute radiation syndrome, *Biotechnology & Biotechnological Equipment* 28 (2014) 533-539, ISSN:1310-2818, IF=0.379.
109. Gesheva, V.; Chausheva, S.; Mihaylova, N.; Manoylov, I.; Doumanova, L.; Idakieva, K.; Tchorbanov, A.; Anti-cancer properties of gastropodan hemocyanins in murine model of colon carcinoma, *BMC Immunology* 15 (2014) 34-44, ISSN:1471-2172, IF=2.246.
110. Raynova, Y.; Todinova, S.; Yordanov, D.; Idakieva, K.; SDS-induced phenoloxidase activity of *Helix aspersa* maxima hemocyanin, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 111-116, ISSN: 0324-1130, IF=0.32.
111. Guncheva, M.; Paunova, K.; Dimitrov, M.; Yancheva, D.; Stabilization of *Candida rugosa* lipase on nanosized zirconia-based materials, *Journal of Molecular Catalysis B: Enzymatic* 108 (2014) 43-50, ISSN: 1381-1177, IF=2.823.
112. Guncheva, M.; Dimitrov, M.; Napoly, F.; Draye, M.; Andrioletti, B.; Novel Hybrid Materials on the Basis of Nanostructured Tin Dioxide and a Lipase from *Rhizopus delemar* with Improved Enantioselectivity, *Journal of Molecular Catalysis B: Enzymatic* 102 (2014) 72-80, ISSN: 1381-1177, IF=2.823.
113. Hristov, A.; Christova, N.; Nacheva, L.; Stoineva, I.; Kabaivanova, L.; Biodegradation potential of *Nocardia farcinica* BN26 for xenobiotics mineralization, *Comptes Rendus De L Academie Bulgare Des Sciences* 67 (2014) 821-830, ISSN: 1310-1331, IF=0.198.
114. Terziyski, I.; Alexandrova, L.; Stoineva, I.; Christova, N.; Todorov, R.; Cohen, R.; Foam and wetting films from rhamnolipids produced by *Pseudomonas aeruginosa* BN10. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 460 (2014) 299-305, ISSN: 0927-7757, IF=2.424.

115. Antonova, O.; Dolashka, P.; Toncheva, D.; Rammensee, H.-G.; Stevanovic, S. In vitro Antiproliferative Effect of *Helix aspersa* Hemocyanin on Multiple Malignant Cell Lines. *Zeitschrift für Naturforschung C* 69c (2014) 325-334, ISSN: 0939-5075, IF= 0.569.
116. Abrashev, R.; Stoitsova, S.; Krumova, E.; Pashova, S.; Paunova-Krasteva, T.; Vassilev, S.; Dolashka-Angelova, P.; Angelova, M. Temperature-stress tolerance of the fungal strain *Aspergillus niger* 26: physiological and ultrastructural changes. *World Journal of Microbiology and Biotechnology* 30 (2014) 1661-1668, ISSN: 1573-0972, IF=1.353
117. Mojzych, M.; Dolashki, A.; Voelter, W. Synthesis of pyrazolo[4,3-e][1,2,4]triazine sulfonamides, novel Sildenafil analogs with tyrosinase inhibitory activity. *Bioorganic and Medicinal Chemistry* 22 (2014) 6616-6624. ISSN: 0968-0896, IF=2.951.

Приети за печат през 2014 г.

1. Kurteva, V. B.; Petrova, M. A.; Synthesis of 3-methyl-4-(4-methylbenzoyl)-1-phenyl-pyrazol-5-one. How to avoid O-acylation, *Journal of Chemical Education*; Doi: 10.1021/ed5000636. ISSN: 0021-9584 (Print), 1938-1328 (On line), IF=1.001.
2. Antonov, L.; Deneva, V.; Simeonov, S.; Kurteva, V.; Crochet, A.; Fromm, K. M.; Shivachev, B.; Nikolova, R.; Savarese, M.; Adamo, C.; Controlled tautomeric switching in azonaphthols - tune by substituents in the phenyl ring, *ChemPhysChem*; Doi: 10.1002/cphc.201402691. ISSN: 1439-7641, IF=3.360.
3. Ivanov, P.; Atanassov, E.; Jaime, C.; Computational study on the intramolecular self-organization of the macrorings of some 'giant' cyclodextrins (CDn, n=40, 70, 85, 100), *Organic and Biomolecular Chemistry*; Doi: 10.1039/c4ob02218a. ISSN: 1477-0520(printed), 1477-0539 (electronic), IF=3.487.
4. Vasilev, A.; Lesev, N.; Deligeorgiev, T.; Dimitrova, S.; Nedelcheva-Veleva, M.; Stoyanov, S.; Angelova, S.; Bright fluorescent dsDNA probes: Novel polycationic asymmetric monomethine cyanine dyes based on thiazolopyridine-quinolinium chromophore, *Coloration Technology* – accepted, ISSN: 1472-3571, IF=1.173.
5. Gyurkovska, V.; Philipov, S.; Kostova, N.; Ivanovska, N. Acetylated derivative of glaucine inhibits joint inflammation in collagenase-induced arthritis, *Immunopharm. Immunotox.* Doi:10.3109/08923973.2014.972414. ISSN: 1532-2513 (electronic), IF=1.36.
6. Doncheva, T.; Amgalan, S.; Kostova, N.; Gerelt-Od, Y.; Dangaa, S.; Philipov, S.; Leptopyrine, new alkaloid from *Leptopyrum fumarioides* L. (Ranunculaceae), *Natural Product Research*. Doi: 10.1080/14786419.2014.991322. ISSN: 1478-6419, IF=1.225.
7. Zahmanov, G; Alipieva, K.; Denev, P.; Todorov, D.; Hinkov, A.; Shishkov, S.; Simova, S.; Georgiev, M. I.; Flavonoid glycosides profiling in dwarf elder fruits (*Sambucus ebulus* L.) and evaluation of their antioxidant and anti-herpes simplex activities. *Industrial Crops and Products*. Doi: 10.1016/j.indcrop.2014.10.053. ISSN:0926-6690, IF=3.208

8. Luong, T. K. N.; Shestakova, P.; Mihaylov, Tz.; Absillis, G.; Pierloot, K.; Parac-Vogt, T. N.; Multinuclear diffusion NMR Spectroscopy and DFT modeling: a powerful combination for unraveling the mechanism of phosphoester bond hydrolysis catalyzed by metal-substituted polyoxometalates, *Chemistry - A European Journal*, accepted, ISSN: 1521-3765, IF=5.696.
9. Kancheva, V. D.; Slavova-Kazakova, A.; Terzieva, A.; Tsrunchev, Ts.; Ivanova, M.; Assess the potential of some traditional Bulgarian teas to scavenge free radicals and to exhibit antioxidant activity after gamma-irradiation, *Rivista Italiana Delle Sostanze Grasse*, ISSN: 0035-6808, IF=0.4.
10. Janiak, M.; Slavova-Kazakova, A.; Kancheva, V.; Amarowicz, R.; Sephadex LH-20 column chromatography of the hydrolysed lignan macromolecule of flaxseed, *Bulgarian Chemical Communications*, ISSN: 0324-1130, IF=0.3.
11. Momchilova, Sv.; Arpadjan, S.; Blagoeva, E.; Accumulation of Microelements (Cd, Cu, Fe, Mn, Pb, Zn) in Walnuts (*Juglans regia* L.) from Bulgaria Depending on the Cultivar and the Harvesting Year, *Bulgarian Chemical Communications*, ISSN: 0324-1130, IF=0.3.
12. Dolashki, A.; Radkova, M.; Todorovska, E.; Ivanov, M.; Stevanovic, S.; Molin, L.; Traldi, P.; Voelter, W.; Dolashka, P. Structure and Characterization of *Cancer pagurus* Hemocyanin. *Marine Biotechnology*; Doi: 10.1007/s10126-014-9609-5, ISSN: 1436-2228, IF=3.152.
13. Christova, N.; Lang, S.; Wray, V.; Kaloyanov, K.; Konstantinov, S.; Stoineva, I.; Production, structural elucidation and in vitro antitumor activity of trehalose lipid biosurfactant from *Nocardia farcinica* strain. *Journal of microbiology and biotechnology*. ISSN: 1017-7825, IF=1.320.

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

Излезли от печат през 2014 г.

1. Bankova, V.; Dimitrov, V.; Ivanov, P.; Medicinal and aromatic plants as a source for bioactive compounds, Proceedings of the First VAST-BAS Workshop on Science and Technology, Ha Long, Vietnam, November 20-21; **(2014)** 299-310. ISBN: 978-604-913-304-6.
2. Ferhat Yardim, M.; Tsyntsarski, B.; Genova, I.; Budinova, T.; Petrova, B.; Dimitrov, M.; Tsoncheva, T.; Kovacheva, D.; Kolev, H.; Ania C. O.; Petrov, N.; Mitov I.; Activated Carbons from Biomass and Coal Treatment Products as Catalysts for Methanol Decomposition, *Proc. Carbon 2014 - World Conference on Carbon "Carbon Materials for Ubiquitous and sustainable life"*, 29 June – 04 July **2014**, Jeju, Korea, No. ORT5-35.
3. Javzan, S.; Gerelt-Od, Y.; Dumaа, M.; Selenge, D.; Philipov, S. Volatile compounds from *Senecio campester* (Retz.) DC., *Proceedings of Conference of Plant Biotechnolog.* **(2014)** 167-178, Ulaanbaatar, Mongolia.
4. Огнянов, М.; Георгиев, Й.; Денев, П.; Янакиева, И.; Крачанова, М.; Биологично активни вещества и здравословни ефекти на шипковите плодове. *Наука Диететика* 3-4 **(2014)** 6-20, ISSN: 1313-9304.

5. Славов А., Василева И, Шиков В., Николова М., Мурджева Д., Динчев А., Янчева Н. Характеристика на полизахариди, получени от дестилиран розов цвят, чрез фракционна екстракция, *Научни трудове на УХТ LXI (2014)* 38-45, ISSN: 0477-0250.
6. Топалов, Й.; Георгиева, Ан.; Недков, П.; Обилно секретирани рани, третирани с хирургични хигроскопични превързочни материали. *Съвременни медицински проблеми*, 1 (2014) 19-21.
7. Долашка, П.; От научните разработки на биологично активни компоненти към внедряване в производството. *Proc. Biotechn. and Food Techn.* 53(2014) 75-87.

Приети за печат през 2014 г.

1. Kancheva, V. D.; Protective effects of natural bio-antioxidants and their synthetic analogues in equimolar binary and triple mixtures, *Trakia Journal of Science* (2014) in press, ISSN: 1312-1723 (print), 1313-3551 (online).

Научни монографии в България

Излезли от печат през 2014 г.

Приети за печат през 2014 г.

Научни монографии в чужбина

Излезли от печат през 2014 г.

1. Antonov, L. (ed.); *Tautomerism: Methods and Theories (2014)* Wiley-VCH. ISBN: 978-3-527-33294-6.
2. Taylor, P. J.; van der Zwan, G.; Antonov, L.; Tautomerism: Introduction, history, and recent developments in experimental and theoretical methods, In *Tautomerism: Methods and Theories*, Antonov, L. (ed.); (2014), Wiley-VCH, Chapter 1, 1-24. ISBN: 978-3-527-33294-6.
3. Antonov, L.; Absorption UV-vis spectroscopy and chemometrics: from qualitative conclusions to quantitative analysis, In *Tautomerism: Methods and Theories*, Antonov, L. (ed.); (2014), Wiley-VCH, Chapter 2, 25-48. ISBN: 978-3-527-33294-6.
4. Kancheva, V. D.; Oxidative stress and lipid oxidation – noninhibited and inhibited, In: *“Reactive oxygen species, lipid peroxidation and protein oxidation” (2014)*, Nova Sci. Publ., NY, USA, Chapter 1, 1-42.

Приети за печат през 2014 г.

Учебници, учебни помагала

Излезли от печат през 2014 г.

1. Nikolova-Damyanova, B.; Momchilova, Sv.; A guide to the practice of quantitative silver ion TLC of fatty acids and triacylglycerols, Aspects of Silver Ion Chromatography, Practical Procedures, *Lipid Library* (2014).

Приети за печат през 2014 г.

Сборници, енциклопедии, речници

Излезли от печат през 2014 г.

Приети за печат през 2014 г.

Научно-популярни произведения

Излезли от печат през 2014 г.

5. Енчев, В.; Теоретичните модели в химията и Нобеловата награда за химия за 2013 година, *Наука* кн. 2 (2014) 3-6, ISSN: 0861 3362.
6. Енчев, В.; Подпомагане на научните изследвания в България, *Наука* кн. 4 (2014) 13-17, ISSN: 0861 3362.

Приети за печат през 2014 г.

Съвместни научни публикации с чуждестранни учени

Излезли от печат през 2014 г.

7. Atanassova, M.; Kurteva, V.; Lubenov, L.; Billard, I.; Comparing extraction, synergism and separation of lanthanoids by use of acidic and neutral compounds in chloroform and one ionic liquid: Is the latter always “better”?, *RSC Advances* 4 (2014) 38820-38829; ISSN: 2046-2069, IF=3.708.
8. Frade, R. F. M.; Coelho, J. A. S.; Simeonov, S. P.; Afonso, C. A. M.; An emerging platform from renewable resources: Selection guidelines for human exposure of furfural-related compounds, *Toxicology Research* 3 (2014) 311-314, ISSN: 2045452X, IF=3.273
9. Martins, A. N. C.; Simeonov, S. P.; Frija, L. M. T.; Viveiros, R.; Lourenço, A.; Silva, M. S. D.; Casimiro, T.; Afonso, C. A. M.; Isolation, analytical quantification and seasonal variation of labdanolic acid from the Portuguese-grown *Cistus ladaniferus*, *Industrial Crops and Products* 60 (2014) 226-232, ISSN: 09266690, IF=3.208.
10. Ivanov, P.; Atanassov, E.; Jaime, C.; Computational study on the conformations of CD38 and inclusion complexes of some lower-size large ring cyclodextrins, *Journal of Molecular Structure* 1056-1057 (2014) 238-245. ISSN: 0022-2860, IF=1.599.

11. Hansen, P. E.; Kamounah, F. S.; Zhiryakova, D.; Manolova, Y.; Antonov, L.; 1,1',1''-(2,4,6-Trihydroxybenzene-1,3,5-triyl)triethanone tautomerism revisited, *Tetrahedron Letters* 55 (2014) 354-357; ISSN: 0040-4039(printed), 1873-3581(electronic), IF=2.391.
12. Ali, S. T.; Antonov, L.; Fabian, W. M. F.; Phenol–Quinone Tautomerism in (Arylazo) naphthols and the Analogous Schiff Bases: Benchmark Calculations, *Journal of Physical Chemistry A* 118 (2014) 778-789. ISSN: 1089-5639, IF=2.775.
13. Kawauchi, S.; Antonov, L.; Okuno, Y.; Prediction of the color of dyes by using time-dependent density functional theory, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 228-237; ISSN: 0324-1130. IF=0.349.
14. Pejović, A.; Denić, M. S.; Stevanović, D.; Damljanović, I.; Vukićević, M.; Kostova, K.; Tavlinova-Kirilova, M.; Randjelović, P.; Stojanović, N. M.; Bogdanović, G.A.; Blagojević, P.; D'hooghe, M.; Radulović, N. S.; Vukićević, R. D.; Discovery of anxiolytic 2-ferrocenyl-1,3-thiazolidin-4-ones exerting GABAA receptor interaction via the benzodiazepine-binding site, *European Journal of Medicinal Chemistry* 83 (2014) 57-73. ISSN: 0009-4374, IF=3.432.
15. Smelcerovic, A.; Pavlovic, V.; Dzodic, P.; Cherneva, E.; Yancheva, D.; Cyclodipeptides with a promising scaffold in medicinal chemistry, *Amino acids* 46 (2014) 825-840. ISSN: 0939-4451, IF=3.65.
16. Kolarevic, A.; Yancheva, D.; Kocic, G.; Smelcerovic, A.; Deoxyribonucleases inhibitors, *European Journal of Medicinal Chemistry* 88 (2014) 101-111. ISSN: 0223-5234, IF=4.07.
17. Zvezdanovic, J.; Daskalova, L.; Yancheva, D.; Cvetkovic, D.; Markovic, D.; Anderluh, M.; Smelcerovic, A.; 2-Amino-5-alkylidenethiazol-4-ones as promising lipid peroxidation inhibitors, *Monatshefte fur Chemie* 145 (2014) 945-952. ISSN: 0026-9247, IF=1.34.
18. Mihályi, M.; Kollár, M.; Klébert, S.; Mavrodinova, V.; Transformation of ethylbenzene-m-xylene feed over MCM-22 zeolites with different acidities, *Applied Catalysis A: General* 476 (2014) 19–25. ISSN: 0926-860X, IF=3.56.
19. Mihályi, M.; Klébert, Sz.; Kollár, M.; Mavrodinova, V.; Transformation of ethylbenzene – m-xylene mixture on zeolites with different structures, *Journal Porous Materials* 21 (2014) 485-493. ISSN: 1380-2224, IF=0.79.
20. Tsoncheva, T.; Gallo, A.; Genova, I.; Spassova, I.; Marelli, M.; Dimitrov, M. ; Khristova, M.; Atanasova, G.; Kovacheva, D.; Nihtyanova, D. ; Dal Santo, V.; Control of copper particles deposition in mesoporous SBA-15 silica by modified CVD method, *Inorganica Chimica Acta* 423 (2014) 145–151. ISSN: 0020-1693, IF=2.0.
21. Tsoncheva. T., Genova, I.; Dimitrov, M.; Sarcadi-Priboczki, E.; Venezia, A.M.; Kovacheva,D; Scotti,N; Dal Santo, V.; Nanostructured copper-zirconia composites as catalysts for methanol decomposition, *Applied Catalysis B: Environmental* 165 (2015) 599–610. ISSN: 0926-3373, IF=6.42.
22. Tsoncheva, T.; Genova, I.; Stoyanova, M.; Pohl, M. M.; Nickolov, R.; Dimitrov, M.; Sarcadi-Priboczki, E.; Mihaylov, M.; Kovacheva, D.; Hadjiivanov, K.; Effect of mesoporous silica topology on the formation of active sites in copper supported catalysts for methanol decomposition, *Applied Catalysis B: Environmental* 147 (2014) 684– 697. ISSN: 0926-3373, IF=6.42.

23. Issa, G.; Genova, I.; Dimitrov, M.; Dal Santo, V.; Gallo, A.; Marelli, M.; Tsoncheva, T.; Effect of Mesoporous Silica Topology on the Formation of Active Sites in Mono- and Bicomponent Copper Containing Catalysts, *Topics in chemistry and material sciences* 7 (2014) 61–72. (ISBN 1314-0795).
24. Tsyntsarski, B.; Petrova, B.; Budinova, T.; Petrov, N.; Sarbu, A.; Sandu, T.; Ferhat Yardim, M. F.; Sirkecioglu, A.; Removal of detergents by zeolites and membranes; *Bulgarian Chemical Communications* 46 (2014) 157-164. ISSN: 0861-9808, IF=0.349.
25. Budinova, T.; Huang, W. P-L.; Racheva, I.; Tsyntsarski, B.; Petrova, B.; Ferhat Yardim, M.; Investigation of kerogen transformation during pyrolysis by applying a diamond anvil cell, *Oil Shale* 31 (2014) 121-131. ISSN: 0208-189X, IF=0.838.
26. Butuzova, L.; Makovskyi, R.; Budinova, T.; Marinov, S. P.; EPR and IR studies on the role of coal genetic type in plastic layer formation, *Fuel Processing Technology* 125 (2014) 246-250. ISSN: 0378-3820, IF=3.019.
27. Sandu, T.; Sarbu, A.; Damian, C. M.; Marin, A.; Vulpe, S.; Budinova, T.; Tsyntsarski, B.; Ferhat Yardim, M.; Sirkecioglu, A.; Preparation and characterization of membranes obtained from blends of acrylonitrile copolymers with poly(vinyl alcohol), *Journal of Applied Polymer Science* 131 (2014) 41013. ISSN:0021-8995, E-ISSN:1097-4628, IF=1.400.
28. Gonsalvesh, L.; Stefanova, M.; Marinov S. P.; Carleer, R.; Yperman, J.; Geochemical study of maltenes from coal biodesulphurisation, *Fuel* 135 (2014) 332-339. ISSN: 0016-2361, IF=3.406.
29. Stefanova, M.; Gonsalvesh, L.; Marinov S. P.; Czech, J.; Carleer, R.; Yperman, J.; Reductive pyrolysis of leonardite humic acids, *Bulgarian Chemical Communications* 46 Special Issue A (2014) 123-128. ISSN: 0324-1130, IF=0.349.
30. Бутузова, Л. Ф.; Сафин, В. А.; Маринов, С.; Бутузов, Г. Н.; Раздобудько, Т. А.; Исследование структурно-группового состава продуктов пиролиза и термохимического разложения сернистых углей методом DRIFT спектроскопии, *Наукови праці ДонНТУ, Серія: Хімія і хімічна технологія* 23 (2014) 149-155. ISSN: 2074-6652.
31. Nagel, B.; Racheva, I.; Tsyntsarski, B.; Szeluga, U; Pusz, S.; Czajkowska, S.; Petrova, B; Budinova, T.; Petrov, N; Characteristics of carbon foams from by-products of commercial polyethylene production, *Proc. International Multidisciplinary Scientific GeoConference SGEM 2014*, 17-26 June 2014, Albena, Bulgaria, Section “Nano, Bio and Green –Technologies advances in Biotechnology”, v. 1, pp. 19-24, ISBN 978-619-7105-20-9. ISSN 1314-2704.
32. Ferhat Yardim, M.; Tsyntsarski, B.; Genova, I.; Budinova, T.; Petrova, B.; Dimitrov, M.; Tsoncheva, T.; Kovacheva, D.; Kolev, H.; Ania C. O.; Petrov, N.; Mitov I.; Activated Carbons from Biomass and Coal Treatment Products as Catalysts for Methanol Decomposition, *Proc. Carbon 2014 - World Conference on Carbon “Carbon Materials for Ubiquitous and sustainable life”*, 29 June – 04 July 2014, Jeju, Korea, No. ORT5-35.

33. Popova, M.; Ristic, A.; Mazaj, M.; Maučec, D.; Dimitrov, M.; Novak Tušar, N.; Effect of autoreduction of copperin FeKIL-2 silicas on the catalytic activity in toluene oxidation, *ChemCatChem* 6 (1) (2014) 271-277; ISSN: 1867-3880, IF=5.04.
34. Popova, M.; Ristić, A.; Mavrodinova, V.; Maučec, D.; Mindizova, L.; Novak Tušar, N.; Design of Cobalt Functionalized Silica with Interparticle Mesoporosity as a Promising Catalyst for VOCs Decomposition, *Catal. Lett.* 144 (6) (2014) 1096-1100; ISSN: 1011-372X, IF=2.29.
35. Popova, M.; Szegedi, Á.; Mavrodinova, V.; Mihály, J.; Klébert, Sz.; Benbassat, N.; Yoncheva, K.; Preparation of resveratrol-loaded nanoporous silica materials with different structures, *J. Solid State Chem.* 219 (2014) 37-42; ISSN: 1095-726X, IF=2.2
36. Popova, M.; Yoncheva, K.; Szegedi, Á.; Kalvachev, Y.; Benbassat, N.; Mavrodinova, V.; Resveratrol loading on mesoporous silica and zeolite carriers by solid state method, *Bulg. Chem. Commun.* 46 (special issue A) (2014) 117-122; ISSN: 0324-1130, IF=0.32.
37. Yoncheva, K.; Popova, M.; Szegedi, Á.; Mihály, J.; Tzankov, B.; Lambov, N.; Konstantinov, S.; Tzankova, V.; Pessinad, F.; Valoti, M.; Functionalized mesoporous silica nanoparticles for oral delivery of budesonide, *J. Solid State Chem.* 211 (2014) 154-161; ISSN: 1095-726X, IF=2.2.
38. Szegedi, Á.; Popova, M.; Yoncheva, K.; Makk, J.; Mihály, J.; Shestakova, P.; Silver and sulfadiazine loaded nanostructured silica materials as potential replacement of silver-sulfadiazine, *Journal of Materials Chemistry B* 2 (2014) 6283-6293; ISSN 2050-750X, IF=6.63.
39. Popova, M.; Szegedi, Á.; Yoncheva, K.; Konstantinov, S.; Petrova, G. P.; Aleksandrov, H.A.; Vayssilov, G.N.; Shestakova, P.; New method for preparation of delivery systems of poorly soluble drugs on the basis of functionalized mesoporous MCM-41 nanoparticles, *Micropor. Mesopor. Mater.* 198 (2014) 247-255; ISSN: 1387-181, IF=3.21.
40. Szegedi, Á.; Popova, M.; Valyon, J.; Guarnaccio, A.; De Stefanis, A.; De Bonis, A.; Orlando, S.; Sansone, M.; Teghil, R.; Santagata, A.; Comparison of silver nanoparticles confined in nanoporous silica prepared by chemical synthesis and by ultra-short pulsed laser ablation in liquid, *Applied Physics A* (2014) 1-8. ISSN: 0947-8396, IF=1.69.
41. Popova, M.; Szegedi, Á.; Ristić, A.; Drotar, E.; Novak Tušar, N.; Glycerol acetylation on mesoporous KIL-2 supported sulphated zirconia catalysts, *Catal. Sci. Technol.* 4 (11) (2014) 3993-4000; ISSN: 2044-4753, IF=4.76.
42. Rangus, M.; Mazaj, M.; Dražić, G.; Popova, M.; Novak Tušar, N.; Disordered mesoporous silica catalyst FeKIL-2 in catalytic oxidation of VOC: active iron sites and diffusion advantages, *Materials* 7 (2014) 4243-4257; ISSN 1996-1944, IF=1.88.
43. Nénon, S.; Champagne, B.; Spassova, M. I.; Assessing long-range corrected functionals with physically-adjusted range-separated parameter for calculating the polarizability and the second hyperpolarizability of polydiacetylene and polybutatriene chains, *Physical Chemistry Chemical Physics* 16 (2014) 7083-7088, ISSN: 1463-9076, IF=4.198.

44. Marinov, M.; Stoyanov, N.; Ugrinov, A.; Angelova, S.; Wawer, I.; Pisklak, M.; Enchev, V.; Solid state structure of 2-(4-hydroxyphenyl)-substituted phenalene-1,3-dione and indan-1,3-dione, *Journal of Structural Chemistry* 55 (2014) 446-455, ISSN: 0022-4766, IF=0.501.
45. Angelova, S. E.; Slavova-Kazakova, A. K.; Saso, L.; Malhotra, S. V.; Prasad, A. K.; Bracke, M. E.; Parmar, V. S.; Kancheva, V. D.; DFT/B3LYP calculated bond-dissociation enthalpies, radical-scavenging and antioxidant activities of natural-like coumarins, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 187-195, ISSN: 0324-1130, IF=0.320.
46. Bakalova, S. M.; Gil Santos, A.; Diels–Alder Reactions of Chiral Isoimidium Salts: A Computational Study, *Journal of Organic Chemistry* 79 (2014) 8202-8211, ISSN: 0022-3263, IF=4.638.
47. Trendafilova, A.; Todorova, M.; Genova, V.; Shestakova, P.; Dimitrov, D.; Jadranin, M.; Milosavljevic, S.; New pseudoguaiane derivatives from *Inula aschersoniana* Janka var. *aschersoniana*, *Natural Product Communications* 9 (2014) 1123-1124, ISSN: 1934-578X, IF= 0.924.
48. Popova, M.; Reyes, M.; Le Conte, Y.; Bankova, V.; Propolis chemical composition and honey bee resistance against *Varroa destructor*. *Natural Product Research* 28 (2014), 788-792, ISSN 1478-6419 (Print), 1478-6427 (Online).IF = 1.225.
49. Bankova, V.; Galabov, A. S.; Antonova, D.; Vilhelmova, N.; Di Perri, B.; Chemical composition of propolis extract ACF[®] and activity against herpes simplex virus. *Phytomedicine*, 21 (2014), 1432-14338, ISSN: 0944-7113, IF = 2.877.
50. Doncheva, T.; Kostova, N.; Yordanova, G.; Saadi, H.; Akrib, F.; Dimitrov, D.; Philipov, S. Comparison of alkaloid profile from *Glaucium corniculatum* (Papaveraceae) of Algerian and Bulgarian origin, *Biochemical Systematics and Ecology* 56 (2014) 278-280. ISSN: 0305-1978, IF=1.269.
51. Alipieva, K.; Orhan, I. E.; Tatli, I. I.; Kostadinova, E. P.; Georgiev, M. I.; Treasure from garden: Chemical profiling, pharmacology and biotechnology of mulleins *Phytochemistry Reviews* 13 (2014) 417-444, ISSN:1572-980X, IF=2.894.
52. Alipieva, K.; Korkina, L.; Orhan, I. E.; Georgiev, M. I.; Verbascoside - A review of its occurrence, (bio)synthesis and pharmacological significance; *Biotechnology Advances* 72 (2014) 1065-1076, ISSN:0734-9750, IF=8.905.
53. Marcoccia, D.; Georgiev, M. I.; Alipieva, K. I.; Lorenzetti, S.; Inhibition of the DHT-induced PSA secretion by *Verbascum xanthophoeniceum* and *Serenoa repens* extracts in human LNCaP prostate epithelial cells; *Journal of Ethnopharmacology* 155 (2014) 616-625, ISSN:0378-8741, IF=2.939.
54. Mártonfiová, L.; Danova, K.; Toteva, V. K.; Čellárová, E.; Karyotype analysis of *Hypericum rumeliacum* Boiss., *Thaiszia Journal of Botany* 24 (2014) 143-150, P-ISSN 1210-0420.
55. Treneva, G.; Markovska, Y.; Wolfram, E.; Danova, K.; Effect of plant growth regulators on growth patterns and enzymatic antioxidant activities in *Hypericum calycinum* shoot cultures, *Bulgarian Journal of Agricultural Sciences* 20 (2014) 46-50, P-ISSN 1310-0351, IF= 0.136.
56. Mikhova, B.; Janevska, V.; Stamboliyska, B.; Draeger, G.; Popovski, E.; Synthesis and structure of some novel dicoumarinamines, *Bulgarian Chemical Communications* 46 (2014) 135-140, ISSN: 0861-9808, IF=0.320.

57. Jashari, A.; Imeri, F.; Ballazhi, L.; Shabani, A.; Mikhova, B.; Dräger, G.; Popovski, E.; Huwiler, A.; Synthesis and cellular characterization of novel isoxazolo- and thiazolohydrazinylidene-chroman-2,4-diones on cancer and non-cancer cell growth and death, *Bioorganic & Medicinal Chemistry*, 22 (2014) 2655-2661, ISSN: 09680896, IF=3.20.
58. Angelova, V. T.; Frey, W.; Ivanov, I. C.; Vassilev, N.; Glasnov, T. N.; One-pot synthesis of a chromeno[4,3,2-*de*]-1,6-naphthyridine derivative from 4-chlorocoumarin-3-carbaldehyde, *Bulgarian Chemical Communications 46 Special Issue A* (2014) 53-58, ISSN: 0324-1130, IF=0.320.
59. Luong, T. K. N.; Absillis, G.; Shestakova, P.; Parac-Vogt, T. N.; Solution speciation of a dinuclear Zr(IV)-substituted Keggin polyoxometalate [$\{\alpha\text{-PW}_{11}\text{O}_{39}\text{Zr}(\mu\text{-OH})(\text{H}_2\text{O})\}_2\text{O}_8$] and its reactivity towards the hydrolysis of a DNA-model phosphodiester, *European Journal of Inorganic Chemistry* (2014) 5276 – 5284, ISSN: 1099-0682, IF=2.965.
60. Shestakova, P.; Absillis, G.; Martin-Martinez, F. J.; De Proft, F.; Willem, R.; Parac-Vogt, T. N.; Integrating ^{31}P DOSY NMR spectroscopy and molecular mechanics as a powerful tool for unraveling the chemical structures of polyoxomolybdate-based amphiphilic nanohybrids in aqueous solution, *Chemistry - A European Journal* 20 (2014) 5258-5270, ISSN: 1521-3765, IF=5.696.
61. Hardeman, T.; Willot, P.; Winter, J. D.; Josse, T.; Gerbaux, P.; Shestakova, P.; Nies, E.; Koeckelberghs, G.; Study on the formation of a supramolecular conjugated graft copolymer in solution., *Journal of Polymer Science Part A: Polymer Chemistry* 52 (2014) 804-809, ISSN: 1099-0518, IF=3.245.
62. Stroobants K.; Absillis, G.; Shestakova, P.; Willem, R.; Parac-Vogt, T. N.; Hydrolysis of tetraglycine by a Zr(IV)-substituted Wells-Dawson polyoxotungstate studied by Diffusion Ordered NMR Spectroscopy, *Journal of Cluster Science* 25 (2014) 855 – 866, ISSN: 1282-8862, IF=1.111.
63. Galabov, B.; Koleva, G.; Simova, S.; Hadjieva, B.; Schaefer III, H.F.; Schleyer, P.V.R.; Arenium ions are not obligatory intermediates in electrophilic aromatic substitution, *Proceedings of the National Academy of Sciences of the USA* 111 (2014) 10067-10072, ISSN: 0027-8424p; 1091-6490o, IF=9.809.
64. Stoyanova, R.; Ivanova, S.; Zhecheva, E.; Samoson, A.; Simova, S.; Tzvetkova, P.; Barra, A.-L.; Correlations between lithium local structure and electrochemistry of layered $\text{LiCo}_{1-2x}\text{Ni}_x\text{Mn}_x\text{O}_2$ oxides: ^7Li MAS NMR and EPR studies, *PhysChemChemPhys* 16 (2014) 2499-2507, ISSN 1463-9076, IF=4.198.
65. Kancheva, V. D.; Slavova-Kazakova, A.; Janek, M.; Fabbri, D.; Dettori, M. A.; Delogu, G.; Amarowicz, R.; Protective effects of dehidrozingerone and its dimer in equimolar binary and triple mixtures with alpha-tocopherol and/or ascorbyl palmitate, *Food Chemistry* 157 (2014) 263-274, ISSN: 0308-8146, IF=3.9.
66. Luong, T. K. N.; Shestakova, P.; Mihaylov, Tz.; Absillis, G.; Pierloot, K.; Parac-Vogt, T. N.; Multinuclear diffusion NMR Spectroscopy and DFT modeling: a powerful combination for unraveling the mechanism of phosphoester bond hydrolysis catalyzed by metal-substituted polyoxometalates, *Chemistry - A European Journal*, accepted, ISSN: 1521-3765, IF=5.696.

67. Janiak, M.; Slavova-Kazakova, A.; Kancheva, V.; Amarowicz, R.; Sephadex LH-20 column chromatography of the hydrolysed lignan macromolecule of flaxseed, *Bulgarian Chemical Communications*, ISSN: 0324-1130, IF=0.3.
68. Denev, P.; Kratchanova, M.; Ciz, M.; Lojek, A.; Vasicek, O.; Nedelcheva, P.; Blazheva, D.; Toshkova, R.; Gardeva, E.; Yossifova, L.; Hyrs, P.; Vojtek, L.; Biological activities of selected polyphenol-rich fruits related to immunity and gastrointestinal health, *Food Chem* 157 (2014) 37-44, ISSN: 0308-8146, IF=3.259.
69. Lojek, A.; Denev, P.; Ciz, M.; Vasicek, O.; Kratchanova, M.; The effects of biologically active substances in medicinal plants on the metabolic activity of neutrophils, *Phytochem Rev* 13(2) (2014) 499-510, ISSN: 1568-7767, IF=2.894.
70. Denev, P.; Kratchanova, M.; Ciz, M.; Lojek, A.; Vasicek, O.; Blazheva, D.; Nedelcheva, P.; Vojtek, L.; Hyrs, P.; Antioxidant, antimicrobial and neutrophil-modulating activities of herb extracts. *Acta Biochim Pol* 61(2) (2014) 359-367, ISSN: 0001-527X, IF=1.389.
71. Prasanth, C. S.; Karunakaran, S.; Paul, A.; Kussovski, V.; Mantareva, V.; Ramaiah, D.; Selvaraj, L.; Angelov, I.; Krishnankutty, N.; Avramov, L.; Subhash, N.; Antimicrobial Photodynamic Efficiency of Novel Cationic Porphyrins towards Periodontal Gram-positive and Gram-negative Pathogenic Bacteria, *Photochemistry and Photobiology* 90 (2014) 628-640, ISSN: 1751-1097, IF=2.29.
72. Guncheva, M.; Dimitrov, M.; Napoly, F.; Draye, M.; Andrioletti, B.; Novel Hybrid Materials on the Basis of Nanostructured Tin Dioxide and a Lipase from *Rhizopus delemar* with Improved Enantioselectivity, *Journal of Molecular Catalysis B: Enzymatic* 102 (2014) 72-80, ISSN: 1381-1177, IF=2.823.
73. Terziyski, I.; Alexandrova, L.; Stoineva, I.; Christova, N.; Todorov, R.; Cohen, R.; Foam and wetting films from rhamnolipids produced by *Pseudomonas aeruginosa* BN10. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 460 (2014) 299-305, ISSN: 0927-7757, IF=2.424.
74. Antonova, O.; Dolashka, P.; Toncheva, D.; Rammensee, H.-G.; Stevanovic, S. In vitro Antiproliferative Effect of Helix aspersa Hemocyanin on Multiple Malignant Cell Lines. *Zeitschrift für Naturforschung C* 69c (2014) 325-334, ISSN: 0939-5075, IF= 0.569.
75. Mojzych, M.; Dolashki, A.; Voelter, W. Synthesis of pyrazolo[4,3-e][1,2,4]triazine sulfonamides, novel Sildenafil analogs with tyrosinase inhibitory activity. *Bioorganic and Medicinal Chemistry* 22 (2014) 6616-6624. ISSN: 0968-0896, IF=2.951
76. Dolashka, P.; Nesterova, N.; Zagorodnya, S.; Dolashki, A.; Baranova, G.; Golovan, A.; Voelter, W. Antiviral activity of hemocyanins *Rapana venosa* and Its Isoforms Against Epstein-Barr Virus. *Global Journal of Pharmacology* 8 (2014) 206-212, ISSN: 1992-0075.

Приети за печат през 2014 г.

1. Antonov, L.; Deneva, V.; Simeonov, S.; Kurteva, V.; Crochet, A.; Fromm, K. M.; Shivachev, B.; Nikolova, R.; Savarese, M.; Adamo, C.; Controlled tautomeric switching in azonaphthols - tune by substituents in the phenyl ring, *ChemPhysChem*; Doi: 10.1002/cphc.201402691. ISSN: 1439-7641, IF=3.360.

2. Ivanov, P.; Atanassov, E.; Jaime, C.; Computational study on the intramolecular self-organization of the macrorings of some 'giant' cyclodextrins (CDn, n=40, 70, 85, 100), *Organic and Biomolecular Chemistry* Doi: 10.1039/c4ob02218a. ISSN: 1477-0520(printed), 1477-0539 (electronic), IF=3.487.
3. Doncheva, T.; Amgalan, S.; Kostova, N.; Gerelt-Od, Y.; Dangaa, S.; Philipov, S.; Leptopyrine, new alkaloid from *Leptopyrum fumarioides* L. (Ranunculaceae), *Natural Product Research*. Doi: 10.1080/14786419.2014.991322. ISSN: 1478-6419, IF=1.225.
4. Luong, T. K. N.; Shestakova, P.; Mihaylov, Tz.; Absillis, G.; Pierloot, K.; Parac-Vogt, T. N.; Multinuclear diffusion NMR Spectroscopy and DFT modeling: a powerful combination for unraveling the mechanism of phosphoester bond hydrolysis catalyzed by metal-substituted polyoxometalates, *Chemistry - A European Journal*, accepted, ISSN: 1521-3765, IF=5.696.
5. Janiak, M.; Slavova-Kazakova, A.; Kancheva, V.; Amarowicz, R.; Sephadex LH-20 column chromatography of the hydrolysed lignan macromolecule of flaxseed, *Bulgarian Chemical Communications*, ISSN: 0324-1130, IF=0.3.
6. Dolashki, A.; Radkova, M.; Todorovska, E.; Ivanov, M.; Stevanovic, S.; Molin, L.; Traldi, P.; Voelter, W.; Dolashka, P. Structure and Characterization of *Cancer pagurus* Hemocyanin. *Marine Biotechnology*; Doi: 10.1007/s10126-014-9609-5, ISSN: 1436-2228, IF=3.152.
7. Christova, N.; Lang, S.; Wray, V.; Kaloyanov, K.; Konstantinov, S.; Stoineva, I.; Production, structural elucidation and in vitro antitumor activity of trehalose lipid biosurfactant from *Nocardia farcinica* strain. *Journal of microbiology and biotechnology*. ISSN: 1017-7825, IF=1.320.
8. Todorova, M.; Trendafilova, A.; Krumova, S.; Idakieva, K.; Genova, V.; Markovska, Y.; Raynova, Y.; Evstatieva, L.; Wolfram, E.; Danova, K.; Interdisciplinary interaction for the biotechnological development of Balkan medicinal plant species, *Proceedings of the Seminar of Ecology, Sofia*.