

Publications 2012

(alphabetically ordered by first author)

1. BATSALA, G. K., DOKOROU, V., KOURKOUMELIS, N., MANOS, M. J., TASIOPOULOS, A. J., MAVROMOUSTAKOS, Thomas, SIMČIČ, Mihael, GOLIČ GRDADOLNIK, Simona, HADJIKAKOU, S. K. Copper(I)/(II) or silver(I) ions towards 2-mercaptopyrimidine: an exploration of a chemical variability with possible biological implication. *Inorg. Chim. Acta*, 2012, 382, 146-157. [COBISS.SI-ID 4910106]
2. BEDRAČ, Leon, ISKRA, Jernej. Dihaloiodates(I): synthesis with hydrogen peroxide and their halogenating activity. *Tetrahedron Lett.*, 2012, 53, 5555-5558. [COBISS.SI-ID 26066983]
3. BILJAN, Ivana, GIACHIN, Gabriele, ILC, Gregor, ZHUKOV, Igor, PLAVEC, Janez, LEGNAME, Giuseppe. Structural basis for the protective effect of the human prion protein carrying the dominant-negative E219K polymorphism. *Biochem. J.*, 2012, 446, 243-251. [COBISS.SI-ID 5078554]
4. BILJAN, Ivana, ILC, Gregor, GIACHIN, Gabriele, PLAVEC, Janez, LEGNAME, Giuseppe. Structural rearrangements at physiological pH: nuclear magnetic resonance insights from the V210I human prion protein mutant. *Biochemistry*, 2012, 51, 7465-7474. [COBISS.SI-ID 5119514]
5. BOŽIČ, Mojca, GORGIEVA, Selestina, KOKOL, Vanja. Laccase-mediated functionalization of chitosan by caffeic and gallic acids for modulating antioxidant and antimicrobial properties. *Carbohydr. Polym.*, 2012, 87, 2388-2398. [COBISS.SI-ID 15504150]
6. ČOLOVIĆ, Marija, ŠURCA VUK, Angela, HAJZERI, Metka, OREL, Boris. Structural studies of alkoxysilyl-functionalised ionic liquid and its application in a hybrid electrochromic device. *Mater. Res. Bull.*, 2012, 47, 3160-3169. [COBISS.SI-ID 5047578]
7. FOTAKIS, Charalambos, RAPPOLT, Michael, MALI, Gregor. Comparative study of the AT [sub] 1 receptor prodrug antagonist candesartan cilexetil with other sartans on the interactions with membrane bilayers. *Biochim. Biophys. Acta, Biomembr.*, 2012, 1818, 3107-3120. [COBISS.SI-ID 5055770]
8. HUA, Ying, CHANGENET-BARRET, Pascal, IMPROTA, Roberto, VAÝA, Ignacio, GUSTAVSSON, Thomas, KOTLYAR, Alexander B., ZIKICH, Dragoslav, ŠKET, Primož, PLAVEC, Janez, MARKOVITSI, Dimitra. Cation effect on the electronic excited states of guanine nanostructures studied by time-resolved fluorescence spectroscopy. *J. Phys. Chem. C*, 2012, 116, 14682-14689. [COBISS.SI-ID 5060634]
9. HUSKIĆ, Miroslav, ŽAGAR, Ema, ŽIGON, Majda. The influence of a quaternary ammonium salt and MMT on the in situ intercalative polymerization of PMMA. *Eur. Polym. J.*, 2012, 48, 1555-1560. [COBISS.SI-ID 5026330]

10. JASIUKAITYTE, Edita, KUNAVER, Matjaž, CRESTINI, Claudia. Lignin structural changes during liquefaction in acidified ethylene glycol. *J. Wood Chem. Technol.*, 2012, 32, 342-360. [COBISS.SI-ID 5016858]
11. KUCHARCZYK, Pavel, POLJANŠEK, Ida, SEDLARIK, Vladimír. The effect of various catalytic systems on solid-state polymerization of poly-(L-lactic acid). *J. Macromol. Sci., Pure Appl. Chem.*, 2012, 49, 795-805. [COBISS.SI-ID 2039433]
12. LENARČIČ ŽIVKOVIĆ, Martina, ZARĘBA-KOZIOŁ, Monika, ZHUKOVA, Lilya, POZNAŃSKI, Jarosław, ZHUKOV, Igor, WYSŁOUCH-CIESZYŃSKA, Aleksandra. Post-translational S-nitrosylation is an endogenous factor fine tuning the properties of human S100A1 protein. *J. Biol. Chem.*, 2012, 287, 40457-40470. [COBISS.SI-ID 5132826]
13. MALI, Gregor, RANGUS, Mojca, SIRISOPANAPORN, Chutchamon, DOMINKO, Robert. Understanding 6Li MAS NMR spectra of Li₂MSiO₄ materials (M=Mn, Fe, Zn). *Solid State Nucl. Magn. Reson.*, 2012, 42, 33-41. [COBISS.SI-ID 4809754]
14. MARUŠIČ, Maja, ŠKET, Primož, BAUER, Lubos, VIGLASKY, Viktor, PLAVEC, Janez. Solution-state structure of an intramolecular G-quadruplex with propeller, diagonal and edgewise loops. *Nucleic Acids Res.*, 2012, 40, 6946-6956. [COBISS.SI-ID 5032474]
15. PERDIH, Andrej, ROY CHOUDHURY, Amrita, ŽUPERL, Špela, SIKORSKA, Emilia, ZHUKOV, Igor, ŠOLMAJER, Tomaž, NOVIČ, Marjana. Structural analysis of a peptide fragment of transmembrane transporter protein bilitranslocase. *PLoS ONE*, 2012, 7, 38967-1-38967-14. [COBISS.SI-ID 4993562]
16. PIRNAT, Klemen, DOMINKO, Robert, CERC KOROŠEC, Romana, MALI, Gregor, GENORIO, Boštjan, GABERŠČEK, Miran. Electrochemically stabilised quinone based electrode composites for Li-ion batteries. *J. Power Sources*, 2012, 199, 308-314. [COBISS.SI-ID 4847898]
17. RAST, Slavko, STEPHAN, Michel, MOHAR, Barbara. Synthesis and use of ortho-(branched alkoxy)-tert-butoxybenzenes. *Tetrahedron Lett.*, 2012, 53, 6815-6818. [COBISS.SI-ID 5119258]
18. SIMČIČ, Mihael, SOSIČ, Izidor, HODOŠČEK, Milan, BARRETEAU, Hélène, BLANOT, Didier, GOBEC, Stanislav, GOLIČ GRDADOLNIK, Simona. The binding mode of second-generation sulfonamide inhibitors of MurD: clues for rational design of potent MurD inhibitors. *PLoS ONE*, 2012, 7, 1-15, e52817. [COBISS.SI-ID 5145882]
19. ŠEBENIK, Gorazd, HUSKIĆ, Miroslav, ŽAGAR, Ema, ŽIGON, Majda. Ionic polymers with tunable liquid-crystalline properties. *Polym. Int.*, 2012, 61, 451-457. [COBISS.SI-ID 4835354]
20. ŠKET, Primož, KOŽMIŃSKI, Wiktor, PLAVEC, Janez. Is there any proton exchange between ammonium ions localized within the d(G3T4G4)₂ quadruplex? *Acta Chim. Slov.*, 2012, 59, 473-477. [COBISS.SI-ID 36190213]

21. ŠKET, Primož, VIRGILIO, Antonella, ESPOSITO, Veronica, GALEONE, Aldo, PLAVEC, Janez. Strand directionality affects cation binding and movement within tetramolecular G-quadruplexes. *Nucleic Acids Res.*, 2012, 40, 11047-11057. [COBISS.SI-ID 5132570]
22. ŠMIGOVEC LJUBIČ, Tina, REBOLJ, Katja, PAHOVNIK, David, HADJICHRISTIDIS, Nikos, ŽIGON, Majda, ŽAGAR, Ema. Utility of chromatographic and spectroscopic techniques for a detailed characterization of poly(styrene-b-isoprene) miktoarm star copolymers with complex architecture. *Macromolecules*, 2012, 45, 7574-7582. [COBISS.SI-ID 5044506]
23. ŠMIGOVEC LJUBIČ, Tina, PAHOVNIK, David, ŽIGON, Majda, ŽAGAR, Ema. Separation of Poly(styrene-block-t-butyl methacrylate) Copolymers by Various Liquid Chromatography Techniques. *The Scientific World Journal*, 2012, 932609-1-932609-9. [COBISS.SI-ID 4928026]
24. ŠTRUKIL, Vjekoslav, ĐILOVIĆ, Ivica, MATKOVIĆ-ČALOGOVIĆ, Dubravka, SAAME, Jaan, LEITO, Ivo, ŠKET, Primož, PLAVEC, Janez, ECKERT-MAKSIĆ, Mirjana. Molecular structure and acid/base properties of 1,2-dihydro-1,3,5-triazine derivatives. *New J. Chem.*, 2012, 36, 86-96. [COBISS.SI-ID 4935962]
25. TITAN, Primož, MEGLIČ, Vladimir, ISKRA, Jernej. Combining ability and heterosis effect in hexaploid wheat group = Kombinacijska sposobnost i učinak heterozisa u grupi heksaploidnih pšenica. *Genetika (Beogr.)*, (Acta biologica Iugoslavica), 2012, 44, 595-609. [COBISS.SI-ID 4000360]
26. TRAJKOVSKI, Marko, PLAVEC, Janez. Assessing roles of cations in G-quadruplex-based nanowires by NMR. *J. Phys. Chem. C*, 2012, 116, 23821-23825. [COBISS.SI-ID 5119770]
27. TRAJKOVSKI, Marko, WEBBA DA SILVA, Mateus, PLAVEC, Janez. Unique structural features of interconverting monomeric and dimeric G-quadruplexes adopted by a sequence from the intron of the N-myc gene. *J. Am. Chem. Soc.*, 2012, 134, 4132-4141. [COBISS.SI-ID 4920602]
28. VARVARIGOU, Nicole, MEGARIOTIS, Grigorios, LEONIS, Georgios, VRONTAKI, Eleni, MANIATI, Antigoni-Margarita, VLACHOU, Marilena, EIKOSIPENTAKI, Aphrodite, KOMPOGENNITAKI, Rodanthi, PAPADOPOULOS, Manthos G., GOLIČ GRDADOLNIK, Simona, KOMIOTIS, Dimitri, MAVROMOUSTAKOS, Thomas, TSOTINIS, Andrew. Conformational analysis of two novel cytotoxic C2-substituted pyrrolo[2,3-f]quinolines in aqueous media, organic solvents, membrane bilayers and at the putative active site. *Bioorg. Med. Chem.*, 2012, 20, 6276-6284. [COBISS.SI-ID 5087002]
29. VRONTAKI, Eleni, LEONIS, Georgios, PAPADOPOULOS, Manthos G., SIMČIČ, Mihael, GOLIČ GRDADOLNIK, Simona, AFANTITIS, A., MELAGRAKI, G., HADJIKAKOU, S. K., MAVROMOUSTAKOS, Thomas. Comparative binding effects of aspirin and anti-inflammatory Cu complex in the active site of LOX-1. *J. Chem. Inf. Mod.*, 2012, 52, 3293-3301. [COBISS.SI-ID 5123098]

30. UKMAR, Tina, ČENDAČ, Tomaž, MAZAJ, Matjaž, KAUČIČ, Venčeslav, MALI, Gregor. Structural and dynamical properties of indomethacin molecules embedded within the mesopores of SBA-15: a solid-state NMR view. *J. Phys. Chem. C*, 2012, 116, 2662-2671. [COBISS.SI-ID 4893978]
31. WITTINE, Karlo, STIPKOVIĆ BABIĆ, Maja, MAKUC, Damjan, PLAVEC, Janez, KRALJEVIĆ PAVELIĆ, Sandra, SEDIĆ, Mirela, PAVELIĆ, Krešimir, LEYSSEN, Pieter, NEYTS, Johan, BALZARINI, Jan, MINTAS, Mladen. Novel 1,2,4-triazole and imidazole derivatives of L-ascorbic and imino-ascorbic acid: synthesis, anti-HCV and antitumor activity evaluations. *Bioorg. Med. Chem.*, 2012, 20, 3675-3685. [COBISS.SI-ID 4959770]