

Publications 2008

(alphabetically ordered by first author)

1. CEVEC, Mirko, THIBAudeau, Christophe, PLAVEC, Janez. Solution structure of a let-7 miRNA:lin-41 mRNA complex from *C. elegans*. *Nucleic Acids Res.*, 2008, vol. 36, no. 7, p. 2330-2337. [COBISS.SI-ID 3875610]
2. PODBEVŠEK, Peter, ŠKET, Primož, PLAVEC, Janez. Stacking and not solely topology of T₃ loops controls rigidity and ammonium ion movement within d(G₄T₃G₄)₂ G-quadruplex. *J. Am. Chem. Soc.*, 2008, vol. 130, no. 43, p. 14287-14293. [COBISS.SI-ID 4051738]
3. BABIĆ, Darko, ĆURIĆ, Manda, MOLČANOV, Krešimir, ILC, Gregor, PLAVEC, Janez. Synthesis and characterization of dicyclopalladated complexes of azobenzene derivatives by experimental and computational methods. *Inorg. Chem.*, 2008, vol. 47, no. 22, p. 10446-10454. [COBISS.SI-ID 4057370]
4. GAZIVODA, Tatjana, RAIĆ-MALIĆ, Silvana, KRIŠTAFOR, Vedran, MAKUC, Damjan, PLAVEC, Janez, BRATULIĆ, Siniša, KRALJEVIĆ-PAVELIĆ, Sandra, PAVELIĆ, Krešimir, NAESENS, Lieve, ANDREI, Graciela, SNOECK, Robert, BALZARINI, Jan, MINTAS, Mladen. Synthesis, cytostatic and anti-HIV evaluations of the new unsaturated acyclic C-5 pyrimidine nucleoside analogues. *Bioorg. Med. Chem.*, 2008, vol. 16, issue 10, p. 5624-5634. [COBISS.SI-ID 3944730]
5. GOZDEK, Agnieszka, ZHUKOV, Igor, POLKOWSKA, Agnieszka, POZNAŃSKI, Jarosław, STANKIEWICZ-DROGON, Anna, PAWLOWICZ, Jerzy M., ZAGÓRSKI-OSTOJA, Włodzimierz, BOROWSKI, Peter, BOGUSZEWSKA-CHACHULSKA, Anna M. NS3 peptide, a novel potent hepatitis C virus NS3 helicase inhibitor : its mechanism of action and antiviral activity in the replicon system. *Antimicrob. Agents Ch.*, 2008, vol. 52, no. 2, p. 393-401. [COBISS.SI-ID 3863066]
6. ZHUKOV, Igor, EJCHART, Andrzej, BIERZYŃSKI, Andrzej. Structural and motional changes induced in apo-S100A1 protein by the disulfide formation between its cys 85 residue and [beta]-mercaptoethanol. *Biochemistry (Easton).*, 2008, vol. 47, no. 2, p. 640-650. [COBISS.SI-ID 3845658]
7. KAZIMIERCZUK, Krzysztof, ZAWADZKA, Anna, KOŹMIŃSKI, Wiktor, ZHUKOV, Igor. Determination of spin-spin couplings from ultrahigh resolution 3D NMR spectra obtained by optimized random sampling and multidimensional Fourier transformation. *J. Am. Chem. Soc.*, 2008, vol. 130, no. 16, p. 5404-5405. [COBISS.SI-ID 3906074]
8. BRONIĆ, Josip, ANTOLIĆ JELIĆ, Tatjana, KRZNARIĆ, Ivan, KONTREC, Jasminka, SUBOTIĆ, Boris, MALI, Gregor. Influence of alkali cations (Me = Li, Na, K, Rb, Cs) on physico-chemical properties of the liquid and solid phases of Me-aluminosilicate hydrogels. *Acta Chim. Slov.*, 2008, vol. 55, no. 4, p. 918-927. [COBISS.SI-ID 4075546]
9. ARROYO-DE DOMPABLO, M. Elena, DOMINKO, Robert, GALLARDO- AMORES, Jose Manuel, DUPONT, Löic, MALI, Gregor, EHRENBERG, Helmut, JAMNIK, Janko, MORAN, Emilio Miguelez. On the energetic stability and electrochemistry of Li₂MnSiO₄ polymorphs. *Chem. Mater.*, 2008, vol. 20, no. 17, p. 5574-5584. [COBISS.SI-ID 3987482]

10. MALI, Gregor, KAUČIČ, Venčeslav, TAULELLE, Francis. Measuring distances between half-integer quadrupolar nuclei and detecting relative orientations of quadrupolar and dipolar tensors by double-quantum homonuclear dipolar recoupling nuclear magnetic resonance experiments. *J. Chem. Phys.*, 2008, vol. 128, issue 20, art. no. 204503, p. 1-11. [COBISS.SI-ID 3944474]
11. MAZAJ, Matjaž, COSTACURTA, Stefano, ZABUKOVEC LOGAR, Nataša, MALI, Gregor, NOVAK TUŠAR, Nataša, INNOCENZI, Plinio, MALFATTI, Luca, THIBAUT-STARZYK, Frederic, AMENITSCH, Heinz, KAUČIČ, Venčeslav, SOLLER-ILLIA, G.J.A.A.. Mesoporous aluminophosphate thin films with cubic pore arrangement. *Langmuir*, 2008, vol. 24, no. 12, p. 6220-6225. [COBISS.SI-ID 3950362]
12. HELLIWELL, Madeleine, HELLIWELL, John R., ZABUKOVEC LOGAR, Nataša, MALI, Gregor, NOVAK TUŠAR, Nataša, KAUČIČ, Venčeslav. Structure characterisation of nanoporous materials using state-of-the-art single-crystal X-ray and neutron diffraction techniques. *Acta Chim. Slov.*, 2008, vol. 55, no. 4, p. 709-718. [COBISS.SI-ID 4075034]
13. ARROYO-DE DOMPABLO, M. Elena, DOMINKO, Robert, GALLARDO- AMORES, Jose Manuel, DUPONT, Lőic, MALI, Gregor, EHRENBERG, Helmut, JAMNIK, Janko, MORAN, Emilio Miguez. On the energetic stability and electrochemistry of $\text{Li}_2\text{MnSiO}_4$ polymorphs. *Chem. Mater.*, 2008, vol. 20, no. 17, p. 5574-5584. [COBISS.SI-ID 3987482]
14. KOŽELJ, Matjaž, OREL, Boris. Synthesis of polyhedral phenylsilsesquioxanes with KF as the source of fluoride ion. *Dalton Trans. (2003. Print)*, 2008, no. 37, p. 5072-5075. [COBISS.SI-ID 3992090]
15. TOMŠIČ, Brigita, SIMONČIČ, Barbara, OREL, Boris, ČERNE, Lidija, FORTE-TAVČER, Petra, ZORKO, Mateja, JERMAN, Ivan, VILČNIK, Aljaž, KOVAČ, Janez. Sol-gel coating of cellulose fibres with antimicrobial and repellent properties. *J. Sol-gel Sci. Techn.*, 2008, vol. 47, no. 1, p. 44-57. [COBISS.SI-ID 3894042]
16. JERMAN, Ivan, ŠURCA VUK, Angela, KOŽELJ, Matjaž, OREL, Boris, KOVAČ, Janez. A structural and corrosion study of triethoxysilyl functionalized POSS coatings on AA 2024 alloy. *Langmuir*, 2008, vol. 24, no. 9, p. 5029-5037. [COBISS.SI-ID 3889178]
17. ŠURCA VUK, Angela, FIR, Mojca, JEŠE, Robi, VILČNIK, Aljaž, OREL, Boris. Structural studies of sol-gel urea/polydimethylsiloxane barrier coatings and improvement of their corrosion inhibition by addition of various alkoxyxilanes: A. Šurca Vuk . [et al.]. *Prog. Org. Coat.*, 2008, vol. 63, no. 1, p. 123-132. [COBISS.SI-ID 3957274]
18. ŠURCA VUK, Angela, JOVANOVSKI, Vasko, POLLET-VILLARD, Aurelien, JERMAN, Ivan, OREL, Boris. devices. *Sol. Energ. Mat. Sol. C.*, 2008, vol. 92, no. 2, p. 126-135. [COBISS.SI-ID 3813146]
19. JAPELJ, Boštjan, ŠURCA VUK, Angela, OREL, Boris, SLEMENIK PERŠE, Lidija, JERMAN, Ivan, KOVAČ, Janez. Preparation of a TiMEMO nanocomposite by the sol-gel method and its application in coloured thickness insensitive spectrally selective (TISS) coatings. *Sol. Energ. Mat. Sol. C.*, 2008, vol. 92, no. 9, p. 1149-1161. [COBISS.SI-ID 3955994]

20. GRDADOLNIK, Jože, GOLIČ GRDADOLNIK, Simona, AVBELJ, Franc. Determination of conformational preferences of dipeptides using vibrational spectroscopy. *J. Phys. Chem. B*, 2008, vol. 112, no. 9, p. 2712-2718. [COBISS.SI-ID 3877146]
21. ZUPANČIČ, Borut, MOHAR, Barbara, STEPHAN, Michel. Impact of incorporating substituents onto the P-o-anisyl groups of DiPAMP ligand on the rhodium(I)-catalyzed asymmetric hydrogenation of olefins. *Advanced Synthesis & Catalysis*, 2008, vol. 350, no. 13, p. 2024-2032. [COBISS.SI-ID 4001306]
22. ZORKO, Mateja, JERALA, Roman. Alexidine and chlorhexidine bind to lipopolysaccharide and lipoteichoic acid and prevent cell activation by antibiotics. *J. Antimicrob. Chemoth.*, 2008, issue 4, vol. 62, p. 730-737. [COBISS.SI-ID 3979290]
23. HAFNER BRATKOVIČ, Iva, GAŠPERŠIČ, Jernej, ŠMID, Lojze, BRESJANAC, Mara, JERALA, Roman. Curcumin binds to the [alpha]-helical intermediate and to the amyloid form of prion protein - a new mechanism for the inhibition of PrP^[sup](Sc) accumulation. *J. Neurochem.*, 2008, vol. 104, no. 6, p. 1553-1564. [COBISS.SI-ID 3896346]
24. ZORKO, Mateja, JAPELJ, Boštjan, HAFNER BRATKOVIČ, Iva, JERALA, Roman. Expression, purification and structural studies of a short antimicrobial peptide. *Biochim. Biophys. Acta, Biomembr.*, 2009, vol. 1788, no. 2, p. 314-323. [COBISS.SI-ID 4071962]
25. HUSKIĆ, Miroslav, ŽIGON, Majda. Thermotropic liquid crystalline [alpha]-(bis(2-hydroxyethyl) amino)-[omega]-(4'-nitroazobenzene-4-oxy) alkane hydrochlorides. *Acta Chim. Slov.*, 2008, vol. 55, no. 2, p. 372-376. [COBISS.SI-ID 3961882]
26. HUSKIĆ, Miroslav, BRNARDIĆ, Ivan, ŽIGON, Majda, IVANKOVIĆ, Marica. Modification of montmorillonite by quaternary polyesters. *J. Non-cryst. Solids*, 2008, vol. 354, no. 28, p. 3326-3331. [COBISS.SI-ID 3936538]
27. GRIČAR, Maja, POLJANŠEK, Ida, BRULC, Blaž, ŠMIGOVEC, Tina, ŽIGON, Majda, ŽAGAR, Ema. Preparation and structural characteristics of multiblock and diblock poly(L,L-lactide-co-L-aspartic acid) copolymers. *Acta Chim. Slov.*, 2008, vol. 55, no. 3, p. 575-581. [COBISS.SI-ID 4004122]
28. Mihael GYERGYEK, Sašo, HUSKIĆ, Miroslav, MAKOVEC, Darko, DROFENIK, Mihael. Superparamagnetic nanocomposites of iron oxide in polymethyl methacrylate matrix synthesized by in situ polymerization. *Colloids Surface A*, 2008, vol. 317, no. 1/3, p. 49-55. [COBISS.SI-ID 21306407]
29. PEPIĆ, Dragana, ŽAGAR, Ema, ŽIGON, Majda, KRŽAN, Andrej, KUNAVER, Matjaž ĐONLAGIĆ, Jasna. Synthesis and characterization of biodegradable aliphatic copolyesters with poly(ethylene oxide) soft segments. *Eur. Polym. J.*, 2008, vol. 44, issue 3, p. 904-917. [COBISS.SI-ID 3883034]
30. RUTKOWSKA, Maria, KRASOWSKA, Katarzyna, HEIMOWSKA, Aleksandra, ADAMUS, Grazyna, ADAMUS, Grazyna, SOBOTA, Michal, MUSIOL, Marta, JANECZEK, Henryk, SIKORSKA, Wanda, KRŽAN, Andrej, ŽAGAR, Ema, KOWALCZUK, Marek. Environmental degradation of blends of atactic poly[(R, S)-3-hydroxybutyrate] with natural PHBV in Baltic Sea water and compost with activated sludge. *Journal of Polymers and the Environment*, 2008, issue 3, vol. 16, p. 183-191. [COBISS.SI-ID 3936026]
31. PAVLINAC, Jasminka, ZUPAN, Marko, STAVBER, Stojan. Iodination of organic compounds using the reagent system I₂-30% aq, H₂O₂ under organic solvent-free reaction conditions. *Acta Chim. Slov.*, 2008, vol. 55, no. 4, p. 841-849. [COBISS.SI-ID 22327079]

32. STAVBER, Gaj, ISKRA, Jernej, ZUPAN, Marko, STAVBER, Stojan. Aerobic oxidative iodination of organic compounds with iodine catalyzed by sodium nitrite. *Advanced Synthesis & Catalysis*, 2008, vol. 350, no. 18, p. 2921-2929. [COBISS.SI-ID 22334247]
33. PAVLINAC, Jasminka, LAALI, Kenneth K., ZUPAN, Marko, STAVBER, Stojan. Iodination of organic compounds with elemental iodine in the presence of hydrogen peroxide in ionic liquid media. *Aust. J. Chem.*, 2008, vol. 61, no. 12, p. 946-955. [COBISS.SI-ID 22275367]
34. ISKRA, Jernej, STAVBER, Stojan, ZUPAN, Marko. Fluorination of fluorine, dibenzofuran and their open analogues with caesium fluoroxysulfate and related fluorinating reagents. *Collect. Czech. Chem. C.*, 2008, vol. 73, no. 12, p. 1671-1680. [COBISS.SI-ID 22316839]
35. PODGORŠEK, Ajda, STAVBER, Stojan, ZUPAN, Marko, ISKRA, Jernej, PADUA, A. A. H., GOMES, Costa. Solvation of halogens in fluorous phases, Experimental and simulation data for F₂, Cl₂ and Br₂ in several fluorinated liquids. *J. Phys. Chem. B*, 2008, vol. 112, no. 21, p. 6653-6664. [COBISS.SI-ID 21740327]
36. PRAVST, Igor, ZUPAN, Marko, STAVBER, Stojan. Halogenation of ketones with N-halosuccinimides under solvent-free reaction conditions. *Tetrahedron*, 2008, vol. 64, no. 22, p. 5191-5199. [COBISS.SI-ID 21691175]
37. STAVBER, Stojan, JEREB, Marjan, ZUPAN, Marko. Electrophilic iodination of organic compounds using elemental iodine or iodides. *Synthesis (Stuttg.)*, 2008, no. 10, p. 1487-1513. [COBISS.SI-ID 21721639]
38. ISKRA, Jernej, STAVBER, Stojan, ZUPAN, Marko. Aerobic oxidative iodination of organic molecules activated by sodium nitrite. *Tetrahedron Lett.*, 2008, vol. 49, no. 5, p. 893-895. [COBISS.SI-ID 21373479]
39. BERGANT, Ana, CERKOVNIK, Janez, PLESNIČAR, Božo, TUTTLE, Tell. An efficient methyltrioxorhenium(VII)-catalyzed transformation of hydrotrioxides (ROOOH) into dihydrogen trioxide (HOOOH). *J. Am. Chem. Soc.*, 2008, vol. 130, no. 43, p. 14086-14087.