

Publications 2010

(alphabetically ordered by first author)

1. AMBROŽIČ, Gabriela, ĐERĐ, Igor, ŠKAPIN, Srečo D., ŽIGON, Majda, CRNJAK OREL, Zorica. The double role of p-toluenesulfonic acid in the formation of ZnO particles with different morphologies. *CrystEngComm (Camb., Online)*, 2010, issue 6, vol. 12, str. 1862-1868, doi: [10.1039/b924412n](https://doi.org/10.1039/b924412n). [COBISS.SI-ID [23387175](#)]
2. AMBROŽIČ, Gabriela, ŠKAPIN, Srečo D., ŽIGON, Majda, CRNJAK OREL, Zorica. The synthesis of zinc oxide nanoparticles from zinc acetylacetone hydrate and 1-butanol or isobutanol. *J. colloid interface sci.*, 2010, vol. 346, no. 2, str. 317-323. [COBISS.SI-ID [23583527](#)]
3. ANŽLOVAR, Alojz, CRNJAK OREL, Zorica, ŽIGON, Majda. Poly(methyl methacrylate) composites prepared by in situ polymerization using organophilic nano-to-submicrometer zinc oxide particles. *Eur. Polym. J.. [Print ed.]*, 2010, issue 6, vol. 46, str. 1216-1224. [COBISS.SI-ID [4388378](#)]
4. BILJAN, Ivana, CVJETOJEVIĆ, Gorana, SMREČKI, Vilko, NOVAK, Predrag, MALI, Gregor, PLAVEC, Janez, BABIC, Darko, MIHALIC, Zlatko, VANČIK, Hrvoj. Nitrosobenzene cross-dimerization : structural selectivity in solution and in solid state. *J. mol. struct.. [Print ed.]*, 2010, vol. 979, issues 1-3, str. 22-26, doi: [10.1016/j.molstruc.2010.05.034](https://doi.org/10.1016/j.molstruc.2010.05.034). [COBISS.SI-ID [4479258](#)]
5. CECOWSKI, Saša, NOVAK TUŠAR, Nataša, RANGUS, Mojca, MALI, Gregor, SOLER-ILLIA, Galo J.A.A., KAUČIČ, Venčeslav. Thin films of cubic mesoporous aluminophosphates modified by silicon and manganese. *Microporous and mesoporous materials*, 2010, vol. 135, str. 161-169. [COBISS.SI-ID [4470042](#)]
6. CEVEC, Mirko, THIBAUDEAU, Christophe, PLAVEC, Janez. NMR structure of the let-7 miRNA interacting with the site LCS1 of lin-41 mRNA from *Caenorhabditis elegans*. *Nucleic acids res.*, 2010, vol. 38, no. 21, str. 7814-7821, ilustr. <http://nar.oxfordjournals.org/content/38/21/7814.full?sid=cf397f6e-76ea-4b0a-8182-5c1e46d2e7d3>, doi: [10.1093/nar/gkq640](https://doi.org/10.1093/nar/gkq640). [COBISS.SI-ID [4554778](#)].
7. FOTAKIS, Charalambos, GEGA, S., SIAPI, Eleni, POTAMITIS, Konstantinos, VIRAS, Kyriakos, MOUTEVELIS MINAKAKIS, Panayiota, KOKOTOS, George, DURDAGI, Serdar, GOLIČ GRDADOLNIK, Simona, SARTORI, B., RAPPOLT, Michael, MAVROMOUSTAKOS, Thomas. Interactions at the bilayer interface and receptor site induced by the novel synthetic pyrrolidinone analog MMK3. *Biochim. biophys. acta, Biomembr.. [Print ed.]*, 2010, vol. 1798, no. 3, str. 422-432, doi: [10.1016/j.bbamem.2009.11.009](https://doi.org/10.1016/j.bbamem.2009.11.009). [COBISS.SI-ID [4385050](#)]
8. ILC, Gregor, GIACHIN, Gabriele, JAREMKO, Mariusz, JAREMKO, Łukasz, BENETTI, Federico, PLAVEC, Janez, ZHUKOV, Igor, LEGNAME, Giuseppe. NMR Structure of the Human Prion Protein with the Pathological Q212P Mutation Reveals Unique Structural Features. *PLoS ONE* 2010, 5(7): e11715. doi:10.1371/journal.pone.0011715], [COBISS.SI-ID [4449050](#)]
9. JASIUKAITYTE, Edita, KUNAVER, Matjaž, CRESTINI, Claudia. Lignin behaviour during wood liquefaction-characterization by quantitative P, C NMR and size-exclusion chromatography. *Catal. today.* [Print ed.], 2010, 8 str. [COBISS.SI-ID [4352282](#)]
10. JERMAN, Ivan, KOŽELJ, Matjaž, OREL, Boris. The effect of polyhedral oligomeric silsesquioxane dispersant and low surface energy additives on spectrally selective paint

- coatings with self-cleaning properties. *Sol. energy mater. sol. cells.* [Print ed.], 2010, vol. 94, no. 2, str. 232-245. [COBISS.SI-ID [4304154](#)]
11. JERMAN, Ivan, OREL, Boris, ŠURCA VUK, Angela, KOŽELJ, Matjaž, KOVAČ, Janez. A structural and corrosion study of triethoxysilyl and perfluorooctyl functionalized polyhedral silsesquioxane nanocomposite films on AA 2024 alloy. *Thin solid films.* [Print ed.], 2010, vol. 518, no. 10, str. 2710-2721. [COBISS.SI-ID [4304410](#)]
 12. KACZKA, P., POLKOWSKA-NOWAKOWSKA, A. BOLEWSKA, K., ZHUKOV, I., POZNANSKI, J., WIERZCHOWSKI, K.L. Backbone dynamics of TFE-induced native-fold of region 4 of Escherichia coli RNA polymerase *s70* subunit, *Proteins* 2010, 78, p. 764-768.
 13. KASTELIC, Jože, HODNIK, Žiga, ŠKET, Primož, PLAVEC, Janez, LAH, Nina, LEBAN, Ivan, PAJK, Matjaž, PLANINŠEK, Odon, KIKELJ, Danijel. Fluconazole cocrystals with dicarboxylic acids. *Cryst. growth des.*, 2010, vol. 10, no. 11, str. 4943-4953. <http://pubs.acs.org/toc/cgdefu/0/0>, doi: [10.1021/cg1010117](https://doi.org/10.1021/cg1010117). [COBISS.SI-ID [2881905](#)]
 14. KLOFUTAR, Boštjan, GOLOB, Janvit, LIKOZAR, Blaž, KLOFUTAR, Cveto, ŽAGAR, Ema, POLJANŠEK, Ida. The transesterification of rapeseed and waste sunflower oils : mass-transfer and kinetics in a laboratory batch reactor and in an industrial-scale reactor/sePARATOR setup. *Bioresour. technol..* [Print ed.], 2010, vol. 101, no. 10, str. 3333-3344, [COBISS.SI-ID [33677317](#)]
 15. LEWANDOWSKA, M., WAWRZYNSKA, A., MONIUSZKO, G., LUKOMSKA, J. ZIENTARA, K., PIECHO, M., HODUREK, P., ZHUKOV, I., LISZEWSKA, F., NIKIFOROVA, V., and SIRKO, A. A contribution to identification of novel regulators of plant responce to sulfur deficiency characteristics of a Tobacco gene UP9C, its protein product and the effects of UP9C silencing, *Molec. Plant*, 2010, 3, p. 347-360.
 16. MAKUC, Damjan, ALBRECHT, Markus, PLAVEC, Janez. Conformational changes of functionalised indole receptors upon their interaction with anions. *Supramol. chem. (Print)*, 2010, vol. 22, no. 10, str. 603-611, doi: [10.1080/10610278.2010.506544](https://doi.org/10.1080/10610278.2010.506544). [COBISS.SI-ID [4528922](#)].
 17. MALI, Gregor, MEDEN, Anton, DOMINKO, Robert. ^[sup] 6 Li MAS NMR spectroscopy and first-principles calculations as a combined tool for the investigation of Li _[sub] 2 MnSiO _[sub] 4 polymorphs. *Chem. commun. (Lond.)*, 1996, 2010, issue 19, str.3306-8, doi: [10.1039/c003065a](https://doi.org/10.1039/c003065a). [COBISS.SI-ID [4386074](#)]
 18. MALICKI, Nicolas, MALI, Gregor, QUOINEAUD, Anna Agathe, BOURGES, Patrick, SIMON, Laurent J., THIBAULT-STARZYK, Frederic, FERNANDEZ, Christian. Aluminium triplets in dealuminated zeolites detected by _[sub](27)Al NMR correlation spectroscopy. *Microporous and mesoporous materials*, 2010, vol. 129, no. 1/2, str. 100-105. [COBISS.SI-ID [4326426](#)]
 19. MOHAR, Barbara, STEPHAN, Michel, URLEB, Uroš. Stereoselective synthesis of fluorine-containing analogues of anti-bacterial sanfetrinem and LK-157. *Tetrahedron* [Print ed.], 2010, vol. 66, str. 4144-4149. [COBISS.SI-ID [4422170](#)]
 20. NOVAK TUŠAR, Nataša, RISTIĆ, Alenka, MALI, Gregor, MAZAJ, Matjaž, ARČON, Iztok, ARČON, Denis, KAUČIČ, Venčeslav, ZABUKOVEC LOGAR, Nataša. MnO _[sub] x nanoparticles supported on a new mesostructured silicate with textural porosity. *Chemistry (Weinh., Print)*. [Print ed.], 2010, vol. 16, iss. 19, str. 5783-5793, doi: [10.1002/chem.200902851](https://doi.org/10.1002/chem.200902851). [COBISS.SI-ID [1459963](#)]

21. PODBEVŠEK, Peter, ALLERSON, Charles R., BHAT, Balkrishen, PLAVEC, Janez. Solution-state structure of a fully alternately 2'-F/2'-OMe modified 42-nt dimeric siRNA construct. *Nucleic acids res.*, 2010, vol. 38, no. 20, str. 7298-7307. <http://nar.oxfordjournals.org/content/early/2010/07/12/nar.gkq621.full.pdf+html>, doi: 10.1093/nar/gkq621. [COBISS.SI-ID 4541466].
22. PODGORŠEK, Ajda, ISKRA, Jernej. Conversion of aryl iodides into aryliodine(III) dichlorides by an oxidative halogenation strategy using 30% aqueous hydrogen peroxide in fluorinated alcohol. *Molecules (Basel)*, 2010, vol. 15, no. 4, str. 2857-2871. [COBISS.SI-ID 23572263]
23. STAVBER, Gaj, STAVBER, Stojan. Towards greener fluorine organic chemistry : direct electrophilic fluorination of carbonyl compounds in water and under solvent-free reaction conditions. *Advanced Synthesis & Catalysis*. [Print ed.], 2010, vol. 352, no. 16, str. 2838-3846, doi: [10.1002/adsc.201000477](https://doi.org/10.1002/adsc.201000477). [COBISS.SI-ID 24083239]
24. ŠKET, Primož, PLAVEC, Janez. Tetramolecular DNA quadruplexes in solution : insights into structural diversity and cation movement. *J. Am. Chem. Soc.*, 2010, vol. 132, no. 36, str. 12724-12732. [COBISS.SI-ID 4487962].
25. TOMAŠIĆ, Tihomir, ZIDAR, Nace, KOVAČ, Andreja, TURK, Samo, SIMČIĆ, Mihael, BLANOT, Didier, MÜLLER-PREMRU, Manica, FILIPIĆ, Metka, GOLIĆ GRDADOLNIK, Simona, ZEGA, Anamarija, ANDERLUH, Marko, GOBEC, Stanislav, KIKELJ, Danijel, PETERLIN-MAŠIĆ, Lucija. 5-benzylidenethiazolidin-4-ones as multitarget inhibitors of bacterial Mur ligases. *ChemMedChem*. [Print ed.], 2010, vol. 5, iss. 2, str. 286-295. <http://www3.interscience.wiley.com/journal/123218167/abstract>. [COBISS.SI-ID 2743921]
26. VUKOMANOVIĆ, Marija, MITRIĆ, Miodrag, ŠKAPIN, Srećko D., ŽAGAR, Ema, PLAVEC, Janez, IGNJATOVIĆ, Nenad, USKOKOVIĆ, Dragan. Influence of ultrasonic processing on the macromolecular properties of poly (D,L-lactide-co-glycolide) alone and in its biocomposite with hydroxyapatite. *Ultrason. sonochem.*. [Print ed.], 2010, vol. 17, no. 5, str. 902-908. [COBISS.SI-ID 23584039]
27. ZABUKOVEC LOGAR, Nataša, MALI, Gregor, RAJIĆ, Nevenka, JEVTIĆ, Sanja, RANGUS, Mojca, GOLOBIĆ, Amalija, KAUČIĆ, Venčeslav. Structure investigation of fluuorinated aluminophosphate ULM-3 Al templated by 3-methylaminopropylamine. *J. solid state chem.*, 2010, issue 5, vol. 183, str. 1055-1062, doi: [10.1016/j.jssc.2010.02.020](https://doi.org/10.1016/j.jssc.2010.02.020). [COBISS.SI-ID 4385562]
28. ZUPANIĆIĆ, Borut, MOHAR, Barbara, STEPHAN, Michel. Heavyweight "R-SMS-Phos" ligands in the olefins' hydrogenation arena. */Org. lett./*, 2010, vol. 12, no. 6, str. 1296-1299, ilustr., doi: [10.1021/ol100184p](https://doi.org/10.1021/ol100184p) <<http://dx.doi.org/10.1021/ol100184p>>. [COBISS.SI-ID 4355098]
29. ZUPANIĆIĆ, Borut, MOHAR, Barbara, STEPHAN, Michel. Impact on Hydrogenation Catalytic Cycle of the R Groups' Cyclic Feature in "R-SMS-Phos". */Org. lett./*, 2010, vol. 12, no. 13, str. 3022-3025, ilustr., doi: [10.1021/ol101029s](https://doi.org/10.1021/ol101029s) <<http://dx.doi.org/10.1021/ol101029s>>. [COBISS.SI-ID 4447514]