

2012. Радови у врхунским међународним научним часописима категорије М21

1. Baranac-Stojanović, M., Koch, A., Kleinpeter, E. Density Functional Calculations of the Anisotropic Effects of Borazine and 1,3,2,4-Diazadiboretidine (2012) *ChemPhysChem*, 13 (17), pp. 3803-3811. (IF2012 3.349)
2. Chamberlain, T.W., Pfeiffer, R., Howells, J., Peterlik, H., Kuzmany, H., Kräutler, B., Da Ros, T., Melle-Franco, M., Zerbetto, F., Milić, D., Khlobystov, A.N. Engineering molecular chains in carbon nanotubes (2012) *Nanoscale*, 4 (23), pp. 7540-7548. (IF2012 6.233)
3. Atanasković-Marković, M., Gaeta, F., Gavrović-Jankulović, M., Čirković Veličković, T., Valluzzi, R.L., Romano, A. Diagnosing multiple drug hypersensitivity in children (2012) *Pediatric Allergy and Immunology*, 23 (8), pp. 785-791. (IF2012 3.376)
4. Medaković, V.B., Bogdanović, G.A., Milčić, M.K., Janjić, G.V., Zarić, S.D. CH/π interactions in metal-porphyrin complexes with pyrrole and chelate rings as hydrogen acceptors (2012) *Journal of Inorganic Biochemistry*, 117, pp. 157-163. (IF2012 3.197)
5. Popović, T., Borožan, S., Arsić, A., Martačić, J.D., Vučić, V., Trbović, A., Mandić, L., Glibetić, M. Fish oil supplementation improved liver phospholipids fatty acid composition and parameters of oxidative stress in male wistar rats (2012) *Journal of Animal Physiology and Animal Nutrition*, 96 (6), pp. 1020-1029. (IF2012 1.254)
6. Stankovic, N., Radulovic, V., Petkovic, M., Vuckovic, I., Jadranin, M., Vasiljevic, B., Nikodinovic-Runic, J. Streptomyces sp. JS520 produces exceptionally high quantities of undecylprodigiosin with antibacterial, antioxidative, and UV-protective properties (2012) *Applied Microbiology and Biotechnology*, 96 (5), pp. 1217-1231. (IF2012 3.689)
7. Popovic, M.M., Bulajic, A., Ristic, D., Krstic, B., Jankov, R.M., Gavrovic-Jankulovic, M. In vitro and in vivo antifungal properties of cysteine proteinase inhibitor from green kiwifruit (2012) *Journal of the Science of Food and Agriculture*, 92 (15), pp. 3072-3078. (IF2012 1.759)
8. Stević, M.C., Ćirić-Marjanović, G., Marjanović, B., Ignjatović, L.M., Manojlović, D. The electrochemical oxidation of 6-aminoquinoline: Computational and voltammetric study (2012) *Journal of the Electrochemical Society*, 159 (11), pp. G151-G159. (IF2012 2.588)
9. Stanic-Vucinic, D., Stojadinovic, M., Atanaskovic-Markovic, M., Ognjenovic, J., Grönlund, H., van Hage, M., Lantto, R., Sancho, A.I., Velickovic, T.C. Structural changes and allergenic properties of β-lactoglobulin upon exposure to high-intensity ultrasound (2012) *Molecular Nutrition and Food Research*, 56 (12), pp. 1894-1905. (IF2012 4.310)
10. Daković, A., Kragović, M., Rottinghaus, G.E., Ledoux, D.R., Butkeraitis, P., Vojislavljević, D.Z., Zarić, S.D., Stamenić, L. Preparation and characterization of zinc-exchanged montmorillonite and its effectiveness as aflatoxin B 1 adsorbent (2012) *Materials Chemistry and Physics*, 137 (1), pp. 213-220. (IF2012 2.072)
11. Sentic, M., Loget, G., Manojlovic, D., Kuhn, A., Sojic, N. Light-emitting electrochemical "swimmers" (2012) *Angewandte Chemie - International Edition*, 51 (45), pp. 11284-11288. (IF2012 13.734)
12. Erić, S., Kalinić, M., Popović, A., Zloh, M., Kuzmanovski, I. Prediction of aqueous solubility of drug-like molecules using a novel algorithm for automatic adjustment of relative importance of descriptors implemented in counter-propagation artificial neural networks (2012) *International Journal of Pharmaceutics*, 437 (1-2), pp. 232-241. (IF2012 3.458)
13. Milić, J.S., Beškoski, V.P., Randjelović, D.V., Stojanović, J., Vrvić, M.M. Visualisation of the interaction between Acidithiobacillus ferrooxidans and oil shale by atomic force microscopy (2012) *Journal of Mining and Metallurgy, Section B: Metallurgy*, 48 (2), pp. 207-217. (IF2012 1.435)
14. Gorjanović, S., Komes, D., Pastor, F.T., Belçak-Cvitanović, A., Pezo, L., Hećimović, I., Sužnjević, D. Antioxidant capacity of teas and herbal infusions: Polarographic assessment (2012) *Journal of*

Agricultural and Food Chemistry, 60 (38), pp. 9573-9580. (IF2012 2.906)

15. Bjelaković, M., Todorović, N., Milić, D. An approach to nanobioparticles - Synthesis and characterization of fulleropeptides (2012) European Journal of Organic Chemistry, (27), pp. 5291-5300. (IF2012 3.344)
16. Kaluerović, G.N., Mijatović, S.A., Zmejkovski, B.B., Bulatović, M.Z., Gómez-Ruiz, S., Mojić, M.K., Steinborn, D., Miljković, D.M., Schmidt, H., Stošić-Grujičić, S.D., Sabo, T.J., Maksimović-Ivančić, D.D. Platinum(ii/iv) complexes containing ethylenediamine-N,N'-di-2/3- propionate ester ligands induced caspase-dependent apoptosis in cisplatin-resistant colon cancer cells (2012) Metallomics, 4 (9), pp. 979-987. (IF2012 4.099)
17. Prodanovic, R., Ostafe, R., Blanusa, M., Schwaneberg, U. Vanadium bromoperoxidase-coupled fluorescent assay for flow cytometry sorting of glucose oxidase gene libraries in double emulsions (2012) Analytical and Bioanalytical Chemistry, 404 (5), pp. 1439-1447. (IF2012 3.659)
18. Rakić, G.M., Grgurić-Šipka, S., Kaluderović, G.N., Bette, M., Filipović, L., Arandelović, S., Radulović, S., Tešić, Ž.L. The synthesis, spectroscopic, X-ray characterization and in vitro cytotoxic testing results of activity of five new trans-platinum(IV) complexes with functionalized pyridines (2012) European Journal of Medicinal Chemistry, 55, pp. 214-219. (IF2012 3.499)
19. Veličković, D., Dimitrijević, A., Bihelović, F., Bezbradica, D., Knežević-Jugović, Z., Milosavić, N. Novel glycoside of vanillyl alcohol, 4-hydroxy-3-methoxybenzyl- α -d- glucopyranoside: Study of enzymatic synthesis, in vitro digestion and antioxidant activity (2012) Bioprocess and Biosystems Engineering, 35 (7), pp. 1107-1115. (IF2012 1.869)
20. Pljevljakušić, D., Rančić, D., Ristić, M., Vujišić, L., Radanović, D., Dajić-Stevanović, Z. Rhizome and root yield of the cultivated Arnica montana L., chemical composition and histochemical localization of essential oil (2012) Industrial Crops and Products, 39 (1), pp. 177-189. (IF2012 2.468)
21. Andrić, J.M., Janjić, G.V., Ninković, D.B., Zarić, S.D. The influence of water molecule coordination to a metal ion on water hydrogen bonds (2012) Physical Chemistry Chemical Physics, 14 (31), pp. 10896-10898. (IF2012 3.829)
22. Radovanović, A.N., Jovančićević, B.S., Radovanović, B.C., Mihajilov-Krstev, T., Zvezdanović, J.B. Antioxidant and antimicrobial potentials of Serbian red wines produced from international *Vitis vinifera* grape varieties (2012) Journal of the Science of Food and Agriculture, 92 (10), pp. 2154-2161. (IF2012 1.759)
23. Mladenović, M., Mihailović, M., Bogojević, D., Vuković, N., Sukdolak, S., Matić, S., Nićiforović, N., Mihailović, V., Mašković, P., Vrvić, M.M., Solujić, S. Biochemical and pharmacological evaluation of 4-hydroxychromen-2-ones bearing polar C-3 substituents as anticoagulants (2012) European Journal of Medicinal Chemistry, 54, pp. 144-158. (IF2012 3.499)
24. Jovanović, D.D., Paunović, K., Manojlović, D.D., Jakovljević, B., Rasic-Milutinović, Z., Dojcinović, B.P. Arsenic in drinking water and acute coronary syndrome in Zrenjanin municipality, Serbia (2012) Environmental Research, 117, pp. 75-82. (IF2012 3.238)
25. Trmcic, M.V., Matovic, R.V., Tovilovic, G.I., Ristic, B.Z., Trajkovic, V.S., Ferjancic, Z.B., Saicic, R.N. A novel C,D-spirolactone analogue of paclitaxel: Autophagy instead of apoptosis as a previously unknown mechanism of cytotoxic action for taxoids (2012) Organic and Biomolecular Chemistry, 10 (25), pp. 4933-4942. (IF2012 3.568)
26. Opsenica, I., Filipovic, V., Nuss, J.E., Gomba, L.M., Opsenica, D., Burnett, J.C., Gussio, R., Solaja, B.A., Bavari, S. The synthesis of 2,5-bis(4-amidinophenyl)thiophene derivatives providing submicromolar-range inhibition of the botulinum neurotoxin serotype A metalloprotease (2012) European Journal of Medicinal Chemistry, 53, pp. 374-379. (IF2012 3.499)
27. Dimitrijevic, R., Stojanovic, M., Micic, M., Dimitrijevic, L., Gavrovic-Jankulovic, M. Recombinant banana lectin as mucosal immunostimulator (2012) Journal of Functional Foods, 4 (3), pp. 636-641. (IF2012 2.632)

28. Tantoush, Z., Apostolovic, D., Kravic, B., Prodic, I., Mihajlovic, L., Stanic-Vucinic, D., Cirkovic Velickovic, T. Green tea catechins of food supplements facilitate pepsin digestion of major food allergens, but hampers their digestion if oxidized by phenol oxidase (2012) *Journal of Functional Foods*, 4 (3), pp. 650-660. (IF2012 2.632)
29. Lazarević, K.B., Andrić, F., Trifković, J., Tešić, Z., Milojković-Opsenica, D. Characterisation of Serbian unifloral honeys according to their physicochemical parameters (2012) *Food Chemistry*, 132 (4), pp. 2060-2064. (IF2012 3.334)
30. Bihelovic, F., Saicic, R.N. Total synthesis of (-)-atrop-abyssomicin C (2012) *Angewandte Chemie - International Edition*, 51 (23), pp. 5687-5691. (IF2012 13.734)
31. Spasojević, I., Bogdanović Pristov, J., Vujisić, L., Spasić, M. The reaction of methionine with hydroxyl radical: Reactive intermediates and methanethiol production (2012) *Amino Acids*, 42 (6), pp. 2439-2445. (IF2012 3.914)
32. Nikolic, V., Velickovic, S., Popovic, A. Amine activators influence on grafting reaction between methacrylic acid and starch (2012) *Carbohydrate Polymers*, 88 (4), pp. 1407-1413. (IF2012 3.479)
33. Stojadinovic, M., Burazer, L., Ercili-Cura, D., Sancho, A., Buchert, J., Velickovic, T.C., Stanic-Vucinic, D. One-step method for isolation and purification of native β -lactoglobulin from bovine whey (2012) *Journal of the Science of Food and Agriculture*, 92 (7), pp. 1432-1440. (IF2012 1.759)
34. Čavić, M., Grozdanović, M., Bajić, A., Srđić-Rajić, T., Anjus, P.R., Gavrović-Jankulović, M. Actininidin, a protease from kiwifruit, induces changes in morphology and adhesion of T84 intestinal epithelial cells (2012) *Phytochemistry*, 77, pp. 46-52. (IF2012 3.050)
35. Kozarski, M., Klaus, A., Nikšić, M., Vrvić, M.M., Todorović, N., Jakovljević, D., Van Griensven, L.J.L.D. Antioxidative activities and chemical characterization of polysaccharide extracts from the widely used mushrooms *Ganoderma applanatum*, *Ganoderma lucidum*, *Lentinus edodes* and *Trametes versicolor* (2012) *Journal of Food Composition and Analysis*, 26 (1-2), pp. 144-153. (IF2012 2.088)
36. Dencic, S.M., Poljarevic, J., Vilimanovich, U., Bogdanovic, A., Isakovic, A.J., Stevovic, T.K., Dulovic, M., Zogovic, N., Isakovic, A.M., Grguric-Sipka, S., Bumbasirevic, V., Sabo, T., Trajkovic, V., Markovic, I. Cyclohexyl analogues of ethylenediamine dipropanoic acid induce caspase-independent mitochondrial apoptosis in human leukemic cells (2012) *Chemical Research in Toxicology*, 25 (4), pp. 931-939. (IF2012 3.667)
37. Mihajlović, L.E., Savić, A., Poljarević, J., Vučković, I., Mojić, M., Bulatović, M., Maksimović-Ivanić, D., Mijatović, S., Kaluderović, G.N., Stošić-Grujić, S., Miljković, D., Grgurić-Šipka, S., Sabo, T.J. Novel methylene modified cyclohexyl ethylenediamine-N,N'-diacetate ligands and their platinum(IV) complexes. Influence on biological activity (2012) *Journal of Inorganic Biochemistry*, 109, pp. 40-48. (IF2012 3.197)
38. Dojnov, B., Vujčić, Z., Božić, N., Margetić, A., Vujčić, M., Nenadović, V., Ivanović, J. Adaptations to captive breeding of the longhorn beetle *Morimus funereus* (Coleoptera: Cerambycidae); application on amylase study (2012) *Journal of Insect Conservation*, 16 (2), pp. 239-247. (IF2012 1.801)
39. Antic, B., Kremenovic, A., Jovic, N., Pavlovic, M.B., Jovalekic, C., Nikolic, A.S., Goya, G.F., Weidenthaler, C. Magnetization enhancement and cation valences in nonstoichiometric (Mn,Fe) 3- δ O 4 nanoparticles (2012) *Journal of Applied Physics*, 111 (7), art. no. 074309, DOI: 10.1063/1.3700228 (IF2012 2.210)
40. Ninković, D.B., Janjić, G.V., Zarić, S.D. Crystallographic and ab initio study of pyridine stacking interactions. Local nature of hydrogen bond effect in stacking interactions (2012) *Crystal Growth and Design*, 12 (3), pp. 1060-1063. (IF2012 4.689)
41. Gligorijević, N., Arancrossed D Signelović, S., Filipović, L., Jakovljević, K., Janković, R., Grgurić-Šipka, S., Ivanović, I., Radulović, S., Tešić, Z.L. Picolinate ruthenium(II)-arene complex with in vitro antiproliferative and antimetastatic properties: Comparison to a series of ruthenium(II)-arene

complexes with similar structure (2012) *Journal of Inorganic Biochemistry*, 108, pp. 53-61. (IF2012 3.197)

42. Stikic, R., Glamoclij, D., Demin, M., Vucelic-Radovic, B., Jovanovic, Z., Milojkovic-Opsenica, D., Jacobsen, S.-E., Milovanovic, M. Agronomical and nutritional evaluation of quinoa seeds (*Chenopodium quinoa* Willd.) as an ingredient in bread formulations (2012) *Journal of Cereal Science*, 55 (2), pp. 132-138. (IF2012 2.088)
43. Grozdanovic, M., Popovic, M., Polovic, N., Burazer, L., Vuckovic, O., Atanaskovic-Markovic, M., Lindner, B., Petersen, A., Gavrovic-Jankulovic, M. Evaluation of IgE reactivity of active and thermally inactivated actinidin, a biomarker of kiwifruit allergy (2012) *Food and Chemical Toxicology*, 50 (3-4), pp. 1013-1018. (IF2012 3.010)
44. Aleksic, I., Popovic, M., Dimitrijevic, R., Andjelkovic, U., Vassilopoulou, E., Sinaniotis, A., Atanaskovic-Markovic, M., Lindner, B., Petersen, A., Papadopoulos, N.G., Gavrovic-Jankulovic, M. Molecular and immunological characterization of Mus a 5 allergen from banana fruit (2012) *Molecular Nutrition and Food Research*, 56 (3), pp. 446-453. (IF2012 4.310)
45. Dimitrijević, A., Veličković, D., Bihelović, F., Bezbradica, D., Jankov, R., Milosavić, N. One-step, inexpensive high yield strategy for *Candida antarctica* lipase A isolation using hydroxyapatite (2012) *Bioresource Technology*, 107, pp. 358-362. (IF2012 4.750)
46. Stojanović, M., Marković, R., Kleinpeter, E., Baranac-Stojanović, M. Synthesis of thiazolidine-fused heterocycles via exo-mode cyclizations of vinylogous N-acyliminium ions (2012) *Organic and Biomolecular Chemistry*, 10 (3), pp. 575-589. (IF2012 3.568)
47. Novaković, I., Andelković, U., Zlatović, M., Gašić, M.J., Sladić, D. Bioconjugate of lysozyme and the antibacterial marine sesquiterpene quinone avarone and its derivatives (2012) *Bioconjugate Chemistry*, 23 (1), pp. 57-65. (IF2012 4.580)
48. Kovacevic-Filipovic, M., Ilić, V., Vujić, Z., Dojnov, B., Stevanov-Pavlović, M., Mijačević, Z., Božić, T. Serum amyloid A isoforms in serum and milk from cows with *Staphylococcus aureus* subclinical mastitis (2012) *Veterinary Immunology and Immunopathology*, 145 (1-2), pp. 120-128. (IF2012 1.877)
49. Baranac-Stojanović, M., Koch, A., Kleinpeter, E. Is the conventional interpretation of the anisotropic effects of C=C double bonds and aromatic rings in NMR spectra in terms of the π-electron shielding/deshielding contributions correct? (2012) *Chemistry - A European Journal*, 18 (1), pp. 370-376. (IF2012 5.831)
50. Dordević, D., Mihajlidi-Zelić, A., Relić, D., Ignjatović, L., Huremović, J., Stortini, A.M., Gambaro, A. Size-segregated mass concentration and water soluble inorganic ions in an urban aerosol of the Central Balkans (Belgrade) (2012) *Atmospheric Environment*, 46, pp. 309-317. (IF2012 3.110)
51. Miljković, D., Poljarević, J.M., Petković, F., Blaževski, J., Momčilović, M., Nikolić, I., Saksida, T., Stošić-Grujičić, S., Grgurić-Šipka, S., Sabo, T.J. Novel octahedral Pt(IV) complex with di-n-propyl-(S,S)-ethylenediamine-N, N'-di-2-(3-cyclohexyl)propanoato ligand exerts potent immunomodulatory effects (2012) *European Journal of Medicinal Chemistry*, 47 (1), pp. 194-201. (IF2012 3.499)
52. Maksimović-Ivanić, D., Mijatović, S., Mirkov, I., Stošić-Grujičić, S., Miljković, D., Sabo, T.J., Trajković, V., Kaluerović, G.N. Melanoma tumor inhibition by tetrachlorido(O,O'-dibutyl-ethylenediamine-N,N'-di-3-propionate)platinum(iv) complex: In vitro and in vivo investigations (2012) *Metallomics*, 4 (11), pp. 1155-1159. (IF2012 4.099)