

1. Stojavljević, A., J. Trifković, Z. Rasić-Milutinović, D. Jovanović, G. Bogdanović, J. Mutić, and D. Manojlović. "Determination of Toxic and Essential Trace Elements in Serum of Healthy and Hypothyroid Respondents by ICP-MS: A Chemometric Approach for Discrimination of Hypothyroidism." *Journal of Trace Elements in Medicine and Biology* 48 (2018): 134–40. <https://doi.org/10.1016/j.jtemb.2018.03.020>. 3.755 M22
2. Rácz, A., F. Andrić, D. Bajusz, and K. Héberger. "Binary Similarity Measures for Fingerprint Analysis of Qualitative Metabolomic Profiles." *Metabolomics* 14, no. 3 (2018). <https://doi.org/10.1007/s11306-018-1327-y>. 3.511 M22
3. Malenov, D.P., I.S. Antonijević, M.B. Hall, and S.D. Zarić. "Stacking of Cyclopentadienyl Organometallic Sandwich and Half-Sandwich Compounds. Strong Interactions of Sandwiches at Large Offsets." *CrystEngComm* 20, no. 31 (2018): 4506–14. <https://doi.org/10.1039/c8ce00597d>. 3.304 M22
4. Stojanović M., M. Baranac-Stojanović. "Mono BN-Substituted Analogues of Naphthalene: A Theoretical Analysis of the Effect of BN Position on Stability, Aromaticity and Frontier Orbital Energies." *New Journal of Chemistry* 42, no. 15 (2018): 12968–76. <https://doi.org/10.1039/c8nj01529e>. 3.201 M22
5. Tadić, A., J. Poljarević, M. Krstić, M. Kajzerberger, S. Aranelović, S. Radulović, C. Kakoulidou, A.N. Papadopoulos, G. Psomas, and S. Grgurić-Šipka. "Ruthenium-Arene Complexes with NSAIDs: Synthesis, Characterization and Bioactivity." *New Journal of Chemistry* 42, no. 4 (2018): 3001–19. <https://doi.org/10.1039/c7nj04416j>. 3.201 M22

6. Macháčková, K., M. Chrudinová, J. Radosavljević, P. Potalitsyn, K. Křížková, M. Fábry, I. Selicharová, et al. "Converting Insulin-like Growth Factors 1 and 2 into High-Affinity Ligands for Insulin Receptor Isoform A by the Introduction of an Evolutionarily Divergent Mutation." *Biochemistry* 57, no. 16 (2018): 2373–82. <https://doi.org/10.1021/acs.biochem.7b01260>. 2.997 M22
7. Izrael-Živković, L., M. Rikalović, G. Gojgić-Cvijović, S. Kazazić, M. Vrvić, I. Brčeski, V. Beškoski, B. Lončarević, K. Gopčević, and I. Karadžić. "Cadmium Specific Proteomic Responses of a Highly Resistant: *Pseudomonas Aeruginosa* San Ai." *RSC Advances* 8, no. 19 (2018): 10549–60. <https://doi.org/10.1039/c8ra00371h>. 2.936 M22
8. Mancic, L., A. Djukic-Vukovic, I. Dinic, M.G. Nikolic, M.D. Rabasovic, A.J. Krmpot, A.M.L.M. Costa, B.A. Marinkovic, L. Mojovic, and O. Milosevic. "One-Step Synthesis of Amino-Functionalized up-Converting NaYF<sub>4</sub>:Yb,Er Nanoparticles for: In Vitro Cell Imaging." *RSC Advances* 8, no. 48 (2018): 27429–37. <https://doi.org/10.1039/c8ra04178d>. 2.936 M22
9. Stojanović, M., and M. Baranac-Stojanović. "Analysis of Stability and (Anti) Aromaticity of BN-Dibenzo[a,e]Pentalenes." *European Journal of Organic Chemistry* 2018, no. 45 (2018): 6230–40. <https://doi.org/10.1002/ejoc.201801047>. 2.882 M22
10. Bechtel, A., K. Oberauer, A. Kostić, R. Gratzner, V. Milisavljević, N. Aleksić, K. Stojanović, D. Groß, and R.F. Sachsenhofer. "Depositional Environment and Hydrocarbon Source Potential of the Lower Miocene Oil Shale Deposit in the Aleksinac Basin (Serbia)." *Organic Geochemistry* 115 (2018): 93–112. <https://doi.org/10.1016/j.orggeochem.2017.10.009>. 2.810 M22
11. Đuričić-Milanković, J., I. Anđelković, A. Pantelić, S. Petrović, A. Gambaro, D. Antonović, and D. Đorđević. "Partitioning of Particulate Matter and Elements of Suburban Continental Aerosols between Fine and Coarse Modes." *Environmental Science and Pollution Research* 25, no. 21 (2018): 20841–53. <https://doi.org/10.1007/s11356-018-2037-8>. 2.800 M22
12. Narayanan, K., H. Miyagawa, R. Kitano, K. Nakagawa, M. Hirooka, S. Hashimoto, V.P. Beskoski, et al. "Greener Approaches to the Measurement of Polyaromatic Hydrocarbons (PAHs) in Unused and Used Crankcase Motor Oils from Malaysia." *Environmental Science*

- and Pollution Research* 25, no. 8 (2018): 7206–11. <https://doi.org/10.1007/s11356-015-5403-9>. 2.800 M22
13. Gligorijević, N., S. Minić, M. Križáková, J. Katrlík, and O. Nedić. “Structural Changes of Fibrinogen as a Consequence of Cirrhosis.” *Thrombosis Research* 166 (2018): 43–49. <https://doi.org/10.1016/j.thromres.2018.04.005>. 2.779 M22
  14. Ajdačić, V., A. Nikolić, S. Simić, D. Manojlović, Z. Stojanović, J. Nikodinovic-Runic, and I.M. Opsenica. “Decarbonylation of Aromatic Aldehydes and Dehalogenation of Aryl Halides Using Maghemite-Supported Palladium Catalyst.” *Synthesis (Germany)* 50, no. 1 (2018): 119–26. <https://doi.org/10.1055/s-0036-1590892>. 2.722 M22
  15. Bihelovic, F., B. Vulovic, and R.N. Saicic. “Gold(I)-Catalyzed C–O/C–C Bond-Forming Domino Reactions and Their Synthetic Applications.” *Israel Journal of Chemistry* 58, no. 5 (2018): 521–30. <https://doi.org/10.1002/ijch.201700033>. 2.607 M22
  16. Milenković, M.R., B. Čobeljić, K. Anđelković, and I. Turel. “Molecular Structures and Spin-States of Pseudohalide Metal Complexes with Hydrazones of Girard’s T Reagent.” *European Journal of Inorganic Chemistry* 2018, no. 7 (2018): 838–46. <https://doi.org/10.1002/ejic.201701387>. 2.507 M22
  17. Pavlović, D., M. Pavlović, D. Čakmak, O. Kostić, S. Jarić, S. Sakan, D. Đorđević, M. Mitrović, I. Gržetić, and P. Pavlović. “Fractionation, Mobility, and Contamination Assessment of Potentially Toxic Metals in Urban Soils in Four Industrial Serbian Cities.” *Archives of Environmental Contamination and Toxicology* 75, no. 3 (2018): 335–50. <https://doi.org/10.1007/s00244-018-0518-x>. 2.421 M22
  18. Krupež, J., V.V. Kovačević, M. Jović, G.M. Roglić, M.M. Natić, M.M. Kuraica, B.M. Obradović, and B.P. Dojčinović. “Degradation of Nicotine in Water Solutions Using a Water Falling Film DBD Plasma Reactor: Direct and Indirect Treatment.” *Journal of Physics D: Applied Physics* 51, no. 17 (2018). <https://doi.org/10.1088/1361-6463/aab632>. 2.373 M22
  19. Ajdačić, V., A. Nikolić, M. Kerner, P. Wipf, and I.M. Opsenica. “Reevaluation of the Palladium/Carbon-Catalyzed Decarbonylation of Aliphatic Aldehydes.” *Synlett* 29, no. 13 (2018): 1781–85. <https://doi.org/10.1055/s-0037-1610433>. 2.369 M22
  20. Jakovljević, K., M.D. Joksović, I.Z. Matić, N. Petrović, T. Stanojković, D. Sladić, M. Vujčić, Janović, B., Joksović, Lj., Trifunović, S. and Marković, V. “Novel 1,3,4-Thiadiazole-Chalcone Hybrids Containing Catechol Moiety: Synthesis, Antioxidant Activity, Cytotoxicity and DNA Interaction Studies.” *MedChemComm* 9, no. 10 (2018): 1679–97. <https://doi.org/10.1039/c8md00316e>. 2.342 M22
  21. Rajacic, S.-K., G. Schwall, J. Penjisevic, D. Andric, V. Sukalovic, and V. Soskic. “Identification of NQO1 and Ferrochelatase as Interaction Partners for Neuroprotective N-{{2-(4-Phenyl-Piperazin-1-Yl)-Ethyl}-Phenyl}-Arylamides.” *Chemical Biology and Drug Design* 92, no. 1 (2018): 1393–97. <https://doi.org/10.1111/cbdd.13193>. 2.328 M22
  22. Vukojević, V., S. Djurdjić, L. Švorc, T.Ćirković, Veličković, J. Mutić, and D.M. Stanković. “Analytical Approach for Detection of Ergosterol in Mushrooms Based on Modification Free Electrochemical Sensor in Organic Solvents.” *Food Analytical Methods* 11, no. 9 (2018): 2590–96. <https://doi.org/10.1007/s12161-018-1249-3>. 2.245 M22
  23. Jevtić, S., A. Stefanović, D.M. Stanković, M.V. Pergal, A.T. Ivanović, A. Jokić, and B.B. Petković. “Boron-Doped Diamond Electrode — A Prestigious Unmodified Carbon Electrode for Simple and Fast Determination of Bentazone in River Water Samples.” *Diamond and Related Materials* 81 (2018): 133–37. <https://doi.org/10.1016/j.diamond.2017.12.009>. 2.232 M22
  24. Vukelić, G., O. Cvetković, I. Gržetić, M. Simić, Z. Miodragović, L. Lazić, M. Zarić, A. Pešić, and P. Vulić. “Anti-Hail Protection-Assessment of Financial Effects on the Territory of Belgrade.” *Sustainability (Switzerland)* 10, no. 4 (2018). <https://doi.org/10.3390/su10041239>. 2.075 M22
  25. Cinková, K., K. Kianičková, D.M. Stanković, M. Vojs, M. Marton, and L. Švorc. “The Doping Level of Boron-Doped Diamond Electrodes Affects the Voltammetric Sensing of

- Uric Acid.” *Analytical Methods* 10, no. 9 (2018): 991–96.  
<https://doi.org/10.1039/c7ay02720f>. 2.073 M22
26. Andrejević, T.P., A.M. Nikolić, B.Đ. Glišić, H. Wadepohl, S. Vojnovic, M. Zlatović, M. Petković, J. Nikodinovic-Runic, I.M. Opsenica, and M.I. Djuran. “Synthesis, Structural Characterization and Antimicrobial Activity of Silver(I) Complexes with 1-Benzyl-1H-Tetrazoles.” *Polyhedron* 154 (2018): 325–33. <https://doi.org/10.1016/j.poly.2018.08.001>. 2.067 M22
27. Čobeljić, B., I. Turel, A. Pevec, Z. Jagličić, D. Radanović, K. Anđelković, and M.R. Milenković. “Synthesis, Structures and Magnetic Properties of Octahedral Co(III) Complexes of Heteroaromatic Hydrazones with Tetraisothiocyanato Co(II) Anions.” *Polyhedron* 155 (2018): 425–32. <https://doi.org/10.1016/j.poly.2018.08.070>. 2.067 M22
28. Glišić, B.Đ., J. Nikodinovic-Runic, T. Ilic-Tomic, H. Wadepohl, A. Veselinović, I.M. Opsenica, and M.I. Djuran. “Synthesis, Cytotoxic Activity and DNA-Binding Properties of Copper(II) Complexes with Terpyridine.” *Polyhedron* 139 (2018): 313–22.  
<https://doi.org/10.1016/j.poly.2017.11.008>. 2.067 M22  
\*Romanović, M.Č., M.R. Milenković, A. Pevec, I. Turel, V. Spasojević, S. Grubišić, D. Radanović, K. Anđelković, and B. Čobeljić. “Crystal Structures, Magnetic Properties and DFT Study of Cobalt(II) Azido Complexes with the Condensation Product of 2-Quinolinecarboxaldehyde and Girard’s T Reagent.” *Polyhedron* 139 (2018): 142–47.  
<https://doi.org/10.1016/j.poly.2017.10.018>. 2.067 M22 (овај рад је приказан у Извештају о НИР-у УБ – ХФ за 2017. годину)  
\*Cvijetić, I.N., M.P. Pešić, M.D. Todorov, B.J. Drakulić, I.O. Juranić, T.Ž. Verbić, and M. Zloh. “Tautomerism of 4-Phenyl-2,4-Dioxobutanoic Acid. Insights from pH Ramping NMR Study and Quantum Chemical Calculations.” *Structural Chemistry* 29, no. 2 (2018): 423–34.  
<https://doi.org/10.1007/s11224-017-1039-3>. 2.019 M22 (овај рад је приказан у Извештају о НИР-у УБ – ХФ за 2017. годину)
29. Čobeljić, B., A. Pevec, S. Stepanović, M.R. Milenković, I. Turel, M. Gruden, D. Radanović, and K. Anđelković. “Structural Diversity of Isothiocyanato Cd(II) and Zn(II) Girard’s T Hydrazone Complexes in Solution and Solid State: Effect of H-Bonding on Coordination Number and Supramolecular Assembly of Cd(II) Complex in Solid State.” *Structural Chemistry* 29, no. 6 (2018): 1797–1806. <https://doi.org/10.1007/s11224-018-1155-8>. 2.019 M22
30. Anđelković, K., A. Pevec, S. Grubišić, I. Turel, B. Čobeljić, M.R. Milenković, T. Keškić, and D. Radanović. “Crystal Structures and DFT Calculations of Mixed Chloride-Azide Zinc(II) and Chloride-Isocyanate Cadmium(II) Complexes with the Condensation Product of 2-Quinolinecarboxaldehyde and Girard’s T Reagent.” *Journal of Molecular Structure* 1162 (2018): 63–70. <https://doi.org/10.1016/j.molstruc.2018.02.074>. 2.011 M22
- IF<2**
31. Đorđević, N.O., B. Pejin, M.M. Novaković, D.M. Stanković, J.J. Mutić, S.B. Pajović, and V.V. Tešević. “Multielement Analysis and Antioxidant Capacity of Merlot Wine Clones Developed in Montenegro.” *Natural Product Research* 32, no. 3 (2018): 247–51.  
<https://doi.org/10.1080/14786419.2017.1347171>. 1.928 M22  
\*Janjušević, L., B. Pejin, S. Kaišarević, S. Gorjanović, F. Pastor, K. Tešanović, and M. Karaman. “Trametes Versicolor Ethanol Extract, a Promising Candidate for Health–Promoting Food Supplement.” *Natural Product Research* 32, no. 8 (2018): 963–67.  
<https://doi.org/10.1080/14786419.2017.1366484>. 1.928 M22 (овај рад је приказан у Извештају о НИР-у УБ – ХФ за 2017. годину)  
\*Pantelić, M., D. Dabić Zagorac, U. Gašić, S. Jović, Z. Bešlić, S. Todić, and M. Natić. “Phenolic Profiles of Serbian Autochthonous Variety ‘Prokupac’ and Monovarietal International Wines from the Central Serbia Wine Region.” *Natural Product Research* 32, no. 19 (2018): 2356–59. <https://doi.org/10.1080/14786419.2017.1408107>. 1.928 M22 (овај рад је приказан у Извештају о НИР-у УБ – ХФ за 2017. годину)

32. Koprivica, M.R., J.Đ. Trifković, A.M. Dramićanin, U.M. Gašić, M.M.F. Akšić, and D.M. Milojković-Opšenica. "Determination of the Phenolic Profile of Peach (*Prunus Persica* L.) Kernels Using UHPLC–LTQ OrbiTrap MS/MS Technique." *European Food Research and Technology* 244, no. 11 (2018): 2051–64. <https://doi.org/10.1007/s00217-018-3116-2> 1.919 M22
33. Veljković, D. Ž. "Strong CH/O interactions between polycyclic aromatic hydrocarbons and water: Influence of aromatic system size.", *Journal of Molecular Graphics and Modelling*, 80 (2018):121-125. <https://doi.org/10.1016/j.jmkgm.2017.12.014> 1.885 M22
34. Đuričić-Milanković, J., I. Anđelković, A. Pantelić, S. Petrović, A. Gambaro, and D. Đorđević. "Size-Segregated Trace Elements in Continental Suburban Aerosols: Seasonal Variation and Estimation of Local, Regional, and Remote Emission Sources." *Environmental Monitoring and Assessment* 190, no. 10 (2018). <https://doi.org/10.1007/s10661-018-6962-2>. 1.804 M22
35. Marić, N., I. Matić, P. Papić, V.P. Beškoski, M. Ilić, G. Gojgić-Cvijović, S. Miletić, Z. Nikić, and M.M. Vrvčić. "Natural Attenuation of Petroleum Hydrocarbons—a Study of Biodegradation Effects in Groundwater (Vitanovac, Serbia)." *Environmental Monitoring and Assessment* 190, no. 2 (2018). <https://doi.org/10.1007/s10661-018-6462-4>. 1.804 M22
36. Spahić, M.P., S. Sakan, Ž. Cvetković, P. Tančić, J. Trifković, Z. Nikić, and D. Manojlović. "Assessment of Contamination, Environmental Risk, and Origin of Heavy Metals in Soils Surrounding Industrial Facilities in Vojvodina, Serbia." *Environmental Monitoring and Assessment* 190, no. 4 (2018). <https://doi.org/10.1007/s10661-018-6583-9>. 1.804 M22  
\*Popović, Z., R. Matić, J. Bajić-Ljubičić, V. Tešević, and S. Bojović. "Geographic Variability of Selected Phenolic Compounds in Fresh Berries of Two *Cornus* Species." *Trees - Structure and Function* 32, no. 1 (2018): 203–14. <https://doi.org/10.1007/s00468-017-1624-5>. 1.782 M22 (овај рад је приказан у Извештају о НИР-у УБ – ХФ за 2017. годину)
37. Pergal, M.V., I.D. Kodranov, M.M. Pergal, B.P. Dojčinović, D.M. Stanković, B.B. Petković, and D.D. Manojlović. "Assessment of Degradation of Sulfonylurea Herbicides in Water by Chlorine Dioxide." *Water, Air, and Soil Pollution* 229, no. 9 (2018). <https://doi.org/10.1007/s11270-018-3947-2>. 1.769 M22  
"Correction to: Assessment of Degradation of Sulfonylurea Herbicides in Water by Chlorine Dioxide (*Water, Air, & Soil Pollution*, (2018), 229, 9, (287), 10.1007/S11270-018-3947-2)." *Water, Air, and Soil Pollution* 229, no. 9 (2018). <https://doi.org/10.1007/s11270-018-3967-y>. 1.769 M22
38. Ilić, B., I. Dimkić, N. Unković, M.L. Grbić, J. Vukojević, Lj. Vujisić, V. Tešević, S. Stanković, S. Makarov, and L. Lučić. "Millipedes vs. Pathogens: Defensive Secretions of Some Julids (Diplopoda: Julida) as Potential Antimicrobial Agents." *Journal of Applied Entomology* 142, no. 8 (2018): 775–91. <https://doi.org/10.1111/jen.12526>. 1.629 M22
39. Čilerdžić, J.L., I.V. Sofrenić, V.V. Tešević, I.D. Brčeski, S.N. Duletić-Laušević, J.B. Vukojević, and M.M. Stajić. "Neuroprotective Potential and Chemical Profile of Alternatively Cultivated *Ganoderma Lucidum* Basidiocarps." *Chemistry and Biodiversity* 15, no. 5 (2018). <https://doi.org/10.1002/cbdv.201800036>. 1.617 M22
40. Jakovljević, V.D., M.M. Vrvčić, S. Vrbničanin, and M. Sarić-Krsmanović. "Phytochemical, Free Radical Scavenging and Antifungal Profile of *Cuscuta Campestris* Yunck. Seeds." *Chemistry and Biodiversity* 15, no. 8 (2018). <https://doi.org/10.1002/cbdv.201800174>. 1.617 M22
41. Nikolić, B.M., Z.S. Mitić, V.V. Tešević, I.Ž. Đorđević, M.M. Todosijević, S.R. Bojović, and P.D. Marin. "Chemotaxonomic Considerations of the N-Alkane Composition in *Pinus Heldreichii*, *P. Nigra*, and *P. Peuce*." *Chemistry and Biodiversity* 15, no. 9 (2018). <https://doi.org/10.1002/cbdv.201800161>. 1.617 M22
42. Cvetković, M., B. Anđelković, V. Stevanović, M. Jadranin, I. Đorđević, V. Tešević, S. Milosavljević, and D. Gođevac. "NMR-Based Metabolomics Study of *Amphoricarpos*



- Species from Montenegro.” *Phytochemistry Letters* 25 (2018): 1–5.  
<https://doi.org/10.1016/j.phytol.2018.03.013>. 1.575 M22
43. Andrić, J.M., I.S. Antonijević, G.V. Janjić, and S.D. Zarić. “Influence of Hydrogen Bonds on Edge-to-Face Interactions between Pyridine Molecules.” *Journal of Molecular Modeling* 24, no. 3 (2018). <https://doi.org/10.1007/s00894-017-3570-y>. 1.507 M22
  44. Božić, A.R., S.K. Bjelogrić, I.T. Novaković, N.R. Filipović, P.M. Petrović, A.D. Marinković, T.R. Todorović, and I.N. Cvijetić. “Antimicrobial Activity of Thiocarbohydrazones: Experimental Studies and Alignment-Independent 3D QSAR Models.” *ChemistrySelect* 3, no. 7 (2018): 2215–21. <https://doi.org/10.1002/slct.201702691>. 1.505 M22
  45. Andrić, F.L. “Towards Polypotent Natural Products: The Derringer Desirability Approach and Nonparametric Ranking for Multicriteria Evaluation of Essential Oils.” *Journal of Chemometrics* 32, no. 10 (2018). <https://doi.org/10.1002/cem.3050>. 1.500 M22
  46. Obradović, D., F. Andrić, M. Zlatović, and D. Agbaba. “Modeling of Hansen’s Solubility Parameters of Aripiprazole, Ziprasidone, and Their Impurities: A Nonparametric Comparison of Models for Prediction of Drug Absorption Sites.” *Journal of Chemometrics* 32, no. 4 (2018). <https://doi.org/10.1002/cem.2996>. 1.500 M22
  47. Minić, S., M. Ješić, D. Đurović, S. Miletić, N. Lugonja, V. Marinković, A. Nikolić-Kokić, S. Spasić, and M.M. Vrvić. “Redox Properties of Transitional Milk from Mothers of Preterm Infants.” *Journal of Paediatrics and Child Health* 54, no. 2 (2018): 160–64.  
<https://doi.org/10.1111/jpc.13676>. 1.449 M22
  48. Waisi, H., B. Janković, B. Nikolić, V. Dragičević, I. Panić, T. Tosti, and J. Trifković. “Influence of Various Concentrations of 24-Epibrassinolide on the Kinetic Parameters during Isothermal Dehydration of Two Maize Hybrids.” *South African Journal of Botany* 119 (2018): 69–79. <https://doi.org/10.1016/j.sajb.2018.08.006>. 1.442 M22
  49. Mesarović, J., J. Trifković, T. Tosti, M. Fotirić Akšić, D. Milatović, V. Ličina, and D. Milojković-Opsenica. “Relationship between Ripening Time and Sugar Content of Apricot (*Prunus Armeniaca* L.) Kernels.” *Acta Physiologiae Plantarum* 40, no. 8 (2018).  
<https://doi.org/10.1007/s11738-018-2731-7>. 1.438 M22
  50. Pantelić, N., A.M. Dramićanin, D.B. Milovanović, J.B. Popović-Đorđević, and A.Ž. Kostić. “Evaluation of the Quality of Drinking Water in Rasina District, Serbia: Physicochemical and Bacteriological Viewpoint.” *Romanian Journal of Physics* 63, no. 9–10 (2018).  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058993110&partnerID=40&md5=28ce2396839960c5f93edaf671a608fc>. 1.433 M22
- IF<1**
51. Stamenković, S., V. Beškoski, I. Karabegović, M. Lazić, and N. Nikolić. “Microbial Fertilizers: A Comprehensive Review of Current Findings and Future Perspectives.” *Spanish Journal of Agricultural Research* 16, no. 1 (2018).  
<https://doi.org/10.5424/sjar/2018161-12117>. 0.811 M22