M21

IF 5-10

1. Izrael Živković, L.; Hüttmann, N.; Susevski, V.; Medić, A.; Beškoski, V.; Berezovski, M. V.; Minić, Z.; Živković, L.; Karadžić, I. A Comprehensive Proteomics Analysis of the Response of Pseudomonas Aeruginosa to Nanoceria Cytotoxicity. *Nanotoxicology* **2023**, *17* (1), 20–41 (Toxicology 14/94, IF2022=5.0). https://doi.org/10.1080/17435390.2023.2180451.

2. Krstajić Pajić, M. N.; Dobrota, A. S.; Mazare, A.; Đurđić, S.; Hwang, I.; Skorodumova, N. V.; Manojlović, D.; Vasilić, R.; Pašti, I. A.; Schmuki, P.; Lačnjevac, U. Activation of Osmium by the Surface Effects of Hydrogenated TiO2 Nanotube Arrays for Enhanced Hydrogen Evolution Reaction Performance. *ACS Appl. Mater. Interfaces* **2023**, *15* (26), 31459–31469 (Materials Science, Multidisciplinary 55/344, IF2022=9.5). https://doi.org/10.1021/acsami.3c04498.

3. Zdravkov, A.; Groß, D.; Bechtel, A.; Stojanović, K.; Kojić, I. Depositional Settings of the Eocene Suhostrel Bituminous Coal, SW Bulgaria, Inferred from Organic Petrology and Molecular Proxies. *International Journal of Coal Geology* **2023**, *276* (Geosciences, Multidisciplinary 21/202, IF=2022=5.6). https://doi.org/10.1016/j.coal.2023.104319.

4. Lazović, M.; Cvijetić, I.; Jankov, M.; Milojković-Opsenica, D.; Trifković, J.; Ristivojević, P. COSMO-RS in Prescreening of Natural Eutectic Solvents for Phenolic Extraction from Teucrium Chamaedrys. *Journal of Molecular Liquids* **2023**, *387*, 122649 (Chemistry, Physical 50/161, IF2022=6.0). https://doi.org/10.1016/j.molliq.2023.122649.

5. Stolić Jovanović, A.; Martinović, M.; Žugić, A.; Nešić, I.; Tosti, T.; Blagojević, S.; Tadić, V. M. Derivatives of L-Ascorbic Acid in Emulgel: Development and Comprehensive Evaluation of the Topical Delivery System. *Pharmaceutics* **2023**, *15* (3), 813 (Pharmacology & Pharmacy 50/278, IF2022=5.4). https://doi.org/10.3390/pharmaceutics15030813.

6. Knežević, S.; Jovanović, N. T.; Vlahović, F.; Ajdačić, V.; Costache, V.; Vidić, J.; Opsenica, I.; Stanković, D. Direct Glyphosate Soil Monitoring at the Triazine-Based Covalent Organic Framework with the Theoretical Study of Sensing Principle. *Chemosphere* **2023**, 341 (Environmental Sciences 30/275, IF2022=8.8). https://doi.org/10.1016/j.chemosphere.2023.139930.

7. Stamenković, T.; Dinić, I.; Vuković, M.; Radmilović, N.; Barudžija, T.; Tomić, M.; Mančić, L.; Lojpur, V. Effect of Bi3+co-Doping on the up-Converting and Photocatalytic Properties of SrGd2O4:Yb3+/Ho3+ Phase. *Ceramics International* **2023**, *49* (23), 37758–37767 (Materials Science, Ceramics 3/29, IF2022=5.2). https://doi.org/10.1016/j.ceramint.2023.09.103.

8. Janić Hajnal, E.; Kos, J.; Radić, B.; Anić, M.; Radović, R.; Kudumija, N.; Vulić, A.; Đekić, S.; Pleadin, J. Impact of Climate Changes on the Natural Prevalence of Fusarium Mycotoxins in Maize Harvested in Serbia and Croatia. *Foods* **2023**, *12* (5), 1002 (Food Science & Technology 34/142, IF2022=5.2). https://doi.org/10.3390/foods12051002.

9. Radotić, K.; Stanković, M.; Bartolić, D.; Natić, M. Intrinsic Fluorescence Markers for Food Characteristics, Shelf Life, and Safety Estimation: Advanced Analytical Approach. *Foods* **2023**, *12* (16), 3023 (Food Science & Technology 34/142, IF2022=5.2). https://doi.org/10.3390/foods12163023.

10. Kazimir, A.; Schwarze, B.; Lönnecke, P.; Jelača, S.; Mijatović, S.; Maksimović-Ivanić, D.; Hey-Hawkins, E. Metallodrugs against Breast Cancer: Combining the Tamoxifen Vector with Platinum(II) and Palladium(II) Complexes. *Pharmaceutics* **2023**, *15* (2), 682 (Pharmacology & Pharmacy 50/278, IF2022=5.4). https://doi.org/10.3390/pharmaceutics15020682.

11. Šokarda Slavić, M.; Margetić, A.; Dojnov, B.; Vujčić, M.; Mišić, M.; Božić, N.; Vujčić, Z. Modified Simultaneous Saccharification and Fermentation for the Production of Bioethanol from Highly Concentrated Raw Corn Starch. *Fuel* **2023**, *338*, 127363 (Engineering, Chemical 19/143, IF2022=7.4). https://doi.org/10.1016/j.fuel.2022.127363.

12. Saidu, M. B.; Krstić, G. B.; Todorović, N.; Berkecz, R.; Ali, H.; Zupkó, I.; Hohmann, J.; Rédei, D. Monoterpenoid 5-Methylcoumarins from Centrapalus Pauciflorus with Antiproliferative Activity. *Arabian Journal of Chemistry* **2023**, *16* (6), 104777 (Chemistry, Multidisciplinary 49/178, IF2022=6.0). https://doi.org/10.1016/j.arabjc.2023.104777.

13. Mandić, D.; Nežić, L.; Amdžić, L.; Vojinović, N.; Gajanin, R.; Popović, M.; Đeri, J.; Balint, M. T.; Dumanović, J.; Milovanović, Z.; Grujić-Milanović, J.; Škrbić, R.; Jaćević, V. Overexpression of MRP1/ABCC1, Survivin and BCRP/ABCC2 Predicts the Resistance of Diffuse Large B-Cell Lymphoma to R-CHOP Treatment. *Cancers (Basel)* **2023**, *15* (16), 4106 (Oncology 72/242, IF2022=5.2). https://doi.org/10.3390/cancers15164106.

14. Krstić, G. B.; Saidu, M. B.; Bombicz, P.; De, S.; Ali, H.; Zupkó, I.; Berkecz, R.; Gallah, U. S.; Rédei, D.; Hohmann, J. Pauciflorins A–E, Unexpected Chromone–Monoterpene-Derived Meroterpenoids from Centrapalus Pauciflorus. *Journal of Natural Products* **2023**, *86* (4), 891–896 (Chemistry, Medicinal 16/60, IF2022=5.1). https://doi.org/10.1021/acs.jnatprod.2c01132.

15. Kokanović, A.; Ajdačić, V.; Terzić Jovanović, N.; Stankic, S.; Opsenica, I. M. Pd Nanoparticles Supported on Ultrapure ZnO Nanopowders as Reusable Multipurpose Catalysts. *ACS Appl. Nano Mater.* **2023**, *6* (17), 15820–15828 (Materials Science, Multidisciplinary 98/344, IF2022=5.1). https://doi.org/10.1021/acsanm.3c02743.

16. Petrović, M. M.; Roschger, C.; Lang, K.; Zierer, A.; Mladenović, M.; Trifunović, S. S.; Mandić, B.; Joksović, M. D. Synthesis and Biological Evaluation of New Quinoline-4-Car-

boxylic Acid-Chalcone Hybrids as Dihydroorotate Dehydrogenase Inhibitors. *Archiv der Pharmazie* **2023**, *356* (2), e2200374 (Chemistry, Medicinal 16/60, IF2022=5.1). https://doi.org/10.1002/ardp.202200374.

17. Milovanović, M. R.; Živković, J. M.; Ninković, D. B.; Zarić, S. D. Potential Energy Surfaces of Antiparallel Water-Water Interactions. *Journal of Molecular Liquids* **2023**, *389* (Physics, Atomic, Molecular & Chemical 4/35, IF2022=6.0). https://doi.org/10.1016/j.molliq.2023.122758.

18. Zeković, Z. P.; Smyatskaya, Y. A.; Bazarnova, J. G.; Pastor, F.; Gorjanović, S.; Gašić, U. M.; Pezo, L.; Đurović, S. Recovery of Biologically Active Compounds from Stinging Nettle Leaves Part II: Processing of Exhausted Plant Material after Supercritical Fluid Extraction. *Foods* **2023**, *12* (4), 809 (Food Science & Technology 34/142, IF2022=5.2). https://doi.org/10.3390/foods12040809.

19. Ognjanović, M.; Jaćimović, Ž.; Kosović-Perutović, M.; Besu Žižak, I.; Stanojković, T.; Žižak, Ž.; Dojčinović, B. P.; Stanković, D.; Antić, B. Self-Heating Flower-like Nanoconstructs with Limited Incorporation of Yttrium in Maghemite: Effect of Chemical Composition on Heating Efficiency, Cytotoxicity and Genotoxicity. *Nanomaterials* **2023**, *13* (5), 870 (Physics, Applied 39/160, IF2022=5.3). https://doi.org/10.3390/nano13050870.

20. Anđelković, L.; Šuljagić, M.; Mirković, M.; Pavlović, V. P.; Petronijević, I.; Stanković, D.; Jeremić, D.; Uskoković, V. Semiconducting Cobalt Oxide Nanocatalyst Obtained through an Eco-Friendly Thermal Decomposition. *Ceramics International* **2023**, *49* (14, Part A), 23491–23498 (Materials Science, Ceramics 3/29, IF2022=5.2). https://doi.org/10.1016/j.ceramint.2023.04.182.

21. Milojkov, D. V.; Radosavljević-Mihajlović, A. S.; Stanić, V. Đ.; Nastasijević, B. J.; Radotić, K.; Janković-Častvan, I.; Živković-Radovanović, V. Synthesis and Characterization of Luminescent Cu2+–Doped Fluorapatite Nanocrystals as Potential Broad–Spectrum Antimicrobial Agents. *Journal of Photochemistry and Photobiology B: Biology* **2023**, *239*, 112649 (Biochemistry & Molecular Biology 73/285, IF2022=5.4). https://doi.org/10.1016/j.jphotobiol.2023.112649.

22. Penjišević, J.; Šukalović, V.; Dukić-Stefanović, S.; Deuther-Conrad, W.; Andrić, D.; Kostić-Rajačić, S. Synthesis of Novel 5-HT1A Arylpiperazine Ligands: Binding Data and Computer-Aided Analysis of Pharmacological Potency. *Arabian Journal of Chemistry* **2023**, *16* (4), 104636 (Chemistry, Multidisciplinary 49/178, IF2022=6.0). https://doi.org/10.1016/j.arabjc.2023.104636.

23. Milikić, J.; Knežević, S.; Ognjanović, M.; Stanković, D.; Rakočević, L.; Šljukić, B. Template-Based Synthesis of Co3O4 and Co3O4/SnO2 Bifunctional Catalysts with Enhanced Electrocatalytic Properties for Reversible Oxygen Evolution and Reduction Reaction. *International Journal of Hydrogen EnergyInternational Journal of Hydrogen Energy* **2023**, *48*

(71), 27568–27581 (Electrochemistry 7/30, IF2022=7.2). https://doi.org/10.1016/j.ijhydene.2023.03.433.

24. Morozov, R.; Stanković, D.; Avdin, V.; Zherebtsov, D.; Romashov, M.; Selezneva, A.; Uchaev, D.; Senin, A.; Chernukha, A. The Effect of Rare-Earth Elements on the Morphological Aspect of Borate and Electrocatalytic Sensing of Biological Compounds. *Biosensors* **2023**, *13* (10), 901 (Nanoscience & Nanotechnology 49/108, IF2022=5.4). https://doi.org/10.3390/bios13100901.

25. Sakan, S. M.; Mihajlidi-Zelić, A.; Aškoviċ, K.; Sakan, N.; Trifunović, S. S.; Đorđević, D. S. The Significance of Applying Different Factors for the Evaluation of Sediment Contamination by Toxic Elements and Estimation of the Ecological Risk. *Environmental Science and Pollution Research* **2023**, *30* (18), 53461–53477 (Environmental Sciences 67/275, IF2022=5.8). https://doi.org/10.1007/s11356-023-26111-4.

26. Mikavica, I.; Ranđelović, D.; Đorđević, V.; Rakić, T.; Gajić, G.; Mutić, J. Concentration and Mobility of Trace Elements (Li, Ba, Sr, Ag, Hg, B) and Macronutrients (Ca, Mg, K) in Soil-Orchid System on Different Bedrock Types. *Environmental Science and Pollution Research* **2023**, *30*, 979–995 (Environmental Sciences 67/275, IF2022=5.8). https://doi.org/10.1007/s11356-022-22110-z.

27. Radomirović, M. Ž.; Gligorijević, N.; Stanić-Vučinić, D.; Rajković, A.; Ćirković-Veličković, T. Ultrasensitive Quantification of Crustacean Tropomyosin by Immuno-PCR. *International Journal of Molecular Sciences* **2023**, *24* (20), 15410 (Biochemistry & Molecular Biology 66/285, IF2022=5.6).

28. Stanković, M.; Prokopijević, M.; Šikoparija, B.; Nedić, N.; Andrić, F.; Polović, N.; Natić, M.; Radotić, K. Using Front-Face Fluorescence Spectroscopy and Biochemical Analysis of Honey to Assess a Marker for the Level of Varroa Destructor Infestation of Honey Bee (Apis Mellifera) Colonies. *Foods* **2023**, *12* (3), 629 (Food Science & Technology 34/142, IF2022=5.2). https://doi.org/10.3390/foods12030629.

29. Jadranin, M.; Avramović, N.; Miladinović, Z.; Gavrilović, A.; Tasic, L.; Tešević, V.; Mandić, B. Untargeted Lipidomics Study of Bipolar Disorder Patients in Serbia. *International Journal of Molecular Sciences* **2023**, *24* (22), 16025 (Biochemistry & Molecular Biology 66/285, IF2022=5.6). https://doi.org/10.3390/ijms242216025.

30. Rašković, A.; Martić, N.; Tomas, A.; Andrejić-Višnjić, B.; Bosanac, M.; Atanasković, M.; Nemet, M.; Popović, R.; Krstić, M.; Vukmirović, S.; Stilinović, N. Carob Extract (Ceratonia Siliqua L.): Effects on Dyslipidemia and Obesity in a High-Fat Diet-Fed Rat Model. *Pharmaceutics* **2023**, *15* (11), 2611 (Pharmacology & Pharmacy 50/278, IF2022=5.4). https://doi.org/10.3390/pharmaceutics15112611.

31. Descamps, J.; Zhao, Y.; Goudeau, B.; Manojlovic, D.; Loget, G.; Sojic, N. Infrared Photoinduced Electrochemiluminescence Microscopy of Single Cells. *Chemical Science* **2023**, *15* (6), 2055–2061 (Chemistry, Multidisciplinary 32/178, IF2022=8.4). https://doi.org/10.1039/d3sc05983a.

32. Aničić, N.; Matekalo, D.; Skorić, M.; Gašić, U.; Nestorović Živković, J.; Dmitrović, S.; Božunović, J.; Milutinović, M.; Petrović, L.; Dimitrijević, M.; Anđelković, B.; Mišić, D. Functional Iridoid Synthases from Iridoid Producing and Non-Producing Nepeta Species (Subfam. Nepetoidae, Fam. Lamiaceae). *Frontiers in Plant Science* **2023**, 14 (Plant Sciences 27/239, IF2022=5.6). https://doi.org/10.3389/fpls.2023.1211453.

33. Milić Komić, S.; Živanović, B.; Dumanović, J.; Kolarž, P.; Sedlarević Zorić, A.; Morina, F.; Vidović, M.; Veljović Jovanović, S. Differential Antioxidant Response to Supplemental UV-B Irradiation and Sunlight in Three Basil Varieties. *Int. J. Mol. Sci.* **2023**, *24* (20), 15350 (Biochemistry & Molecular Biology 66/285, IF2022=5.6). https://doi.org/10.3390/ijms242015350.

34. Stanković, D.; Stanković, V.; Đurđić, S. Z.; Vlahović, F.; Manojlović, D. D.; Ognjanović, M.; Mijajlović, A. Eu2O3@Cr2O3 Nanoparticles-Modified Carbon Paste Electrode for Efficient Electrochemical Sensing of Neurotransmitters Precursor L-DOPA. *Biosensors* **2023**, *13* (2), 201 (Nanoscience & Nanotechnology 49/108, IF2022=5.4). https://doi.org/10.3390/bios13020201.

35. Glišić, S.; Prodanović, R.; Paessler, S.; Perović, V.; Milićević, J.; Prodanović, O.; Senčanski, M.; Kaličanin, N.; Protić, S. In Silico and In Vitro Inhibition of SARS-CoV-2 PLpro with Gramicidin D. *Int. J. Mol. Sci.* **2023**, *24* (3), 1955 (Biochemistry & Molecular Biology 66/285, IF2022=5.6). https://doi.org/10.3390/ijms24031955.

36. Zdravković, M.; Grekulović, V.; Šuljagić, J.; Stanković, D.; Savić, S. D.; Radovanović, M.; Stamenković, U. Influence of Blackberry Leaf Extract on the Copper Corrosion Behaviour in 0.5 M NaCl. *Bioelectrochemistry* **2023**, *151*, 108401(Biochemistry & Molecular Biology 84/285, IF2022=5.0). https://doi.org/10.1016/j.bioelechem.2023.108401.

37. Djapovic, M.; Apostolovic, D.; Postic, V.; Lujic, T.; Jovanovic, V.; Stanic-Vucinic, D.; van Hage, M.; Maslak, V.; Cirkovic Velickovic, T. Characterization of Nanoprecipitated PET Nanoplastics by 1H NMR and Impact of Residual Ionic Surfactant on Viability of Human Primary Mononuclear Cells and Hemolysis of Erythrocytes. *Polymers* **2023**, *15* (24) (Polymer Science 16/86, IF2022=5.0). https://doi.org/10.3390/polym15244703.

38. Šenk, M.; Simić, M.; Milojković-Opsenica, D.; Brankov, M.; Tolimir, M.; Kodranov, I.; Dragičević, V. Common Millet and Soybean Intercropping with Bio-Fertilizer as Sustainable Practice for Managing Grain Yield and Quality. *Frontiers in Nutrition* **2023**, 10 (Nutrition & Dietetics 28/89, IF2022=5.0). https://doi.org/10.3389/fnut.2023.1267928.

39. Rabab, S.; Veličković, Z.; Milošević, M.; Pavlović, V. P.; Cvijetić, I.; Sofrenić, I. V.; Gržetić, J. D.; Marinković, A. Lignin Based Microspheres for Effective Dyes Removal: Design, Synthesis and Adsorption Mechanism Supported with Theoretical Study. *Journal of Environmental Management* **2023**, *326*, 116838 (Environmental Sciences 31/275, IF2022=8.7). https://doi.org/10.1016/j.jenvman.2022.116838.

40. Stojković, P.; Kostić, A.; Lupšić, E.; Jovanović, N. T.; Novaković, M. M.; Nedialkov, P.; Trendafilova, A.; Pešić, M.; Opsenica, I. Novel Hybrids of Sclareol and 1,2,4-Triazolo[1,5-a]Pyrimidine Show Collateral Sensitivity in Multidrug-Resistant Glioblastoma Cells. *Bioorganic Chemistry* **2023**, *138*, 106605 (Biochemistry & Molecular Biology 78/285, IF2022=5.1). https://doi.org/10.1016/j.bioorg.2023.106605.

41. Brdarić, E.; Pop, D.; Soković Bajić, S.; Tucović, D.; Mutić, J.; Čakić-Milošević, M.; Đurđić, S. Z.; Tolinački, M.; Popov Aleksandrov, A.; Golić, N.; Mirkov, I.; Živković, M. Orally Administrated Lactiplantibacillus Plantarum BGAN8-Derived EPS-AN8 Ameliorates Cd Hazards in Rats. *International Journal of Molecular Sciences* **2023**, *24* (3), 2845 (Biochemistry & Molecular Biology 66/285, IF2022=5.6). https://doi.org/10.3390/ijms24032845.

42. Jurič, A.; Brčić Karačonji, I.; Gašić, U. M.; Milojković-Opsenica, D.; Prđun, S.; Bubalo, D.; Lušić, D.; Vahčić, N.; Kopjar, N. Protective Effects of Arbutus Unedo L. Honey in the Alleviation of Irinotecan-Induced Cytogenetic Damage in Human Lymphocytes—An In Vitro Study. *International Journal of Molecular Sciences* **2023**, *24* (3), 1903 (Biochemistry & Molecular Biology 66/285, IF2022=5.6). https://doi.org/10.3390/ijms24031903.

43. Krishna de Guzman, M.; Stanic-Vucinic, D.; Gligorijevic, N.; Wimmer, L.; Gasparyan, M.; Lujic, T.; Vasovic, T.; Dailey, L. A.; Van Haute, S.; Cirkovic Velickovic, T. Small Polystyrene Microplastics Interfere with the Breakdown of Milk Proteins during Static in Vitro Simulated Human Gastric Digestion. *Environmental Pollution* **2023**, *335*, 122282 (Environmental Sciences 28/275, IF2022=8.9). https://doi.org/10.1016/j.envpol.2023.122282.

44. Ferjancic, Z.; Bihelovic, F.; Vulovic, B.; Matovic, R.; Trmcic, M.; Jankovic, A.; Pavlovic, M.; Djurkovic, F.; Prodanovic, R.; Djurdjevic Djelmas, A.; Kalicanin, N.; Zlatovic, M.; Sladic, D.; Vallet, T.; Vignuzzi, M.; Saicic, R. N. Development of Iminosugar-Based Glycosidase Inhibitors as Drug Candidates for SARS-CoV-2 Virus via Molecular Modelling and in Vitro Studies. *Journal of Enzyme Inhibition and Medicinal Chemistry* **2023**, *39* (1) (Chemistry, Medicinal 11/60, IF2022=5.6). https://doi.org/10.1080/14756366.2023.2289007.

45. Embirsh, H. S. A.; Stajčić, I.; Gržetić, J.; Mladenović, I. O.; Anđelković, B.; Marinković, A.; Vuksanović, M. M. Synthesis, Characterization and Application of Biobased Unsaturated Polyester Resin Reinforced with Unmodified/Modified Biosilica Nanoparticles. *Polymers* **2023**, *15* (18), 3756 (Polymer Science 16/86, IF2022=5.0). https://doi.org/10.3390/polym15183756.

IF 4-5

1. Haššo, M.; Sarakhman, O.; Đurđić, S. Z.; Stanković, D.; Švorc, Ľ. Advanced Electrochemical Platform for Simple and Rapid Quantification of Tannic Acid in Beverages Using Batch Injection Analysis with Amperometric Detection. *Journal of Electroanalytical Chemistry* **2023**, *942*, 117578 (Chemistry, Analytical 18/86, IF2022=4.5). https://doi.org/10.1016/j.jelechem.2023.117578.

2. Đurđić, S. Z.; Vlahović, F.; Markićević, M.; Mutić, J.; Manojlović, D. D.; Stanković, V.; Švorc, Ľ.; Stanković, D. Application of Screen Printed Diamond Electrode, Coupled with "Point-of-Care" Platform, for Nanomolar Quantification of Phytonutrient Pterostilbene in Dietary Supplements: An Experimental Study Supported by Theory. *Chemosensors* **2023**, *11* (1), 15 (Chemistry, Analytical 23/86, IF2022=4.2). https://doi.org/10.3390/chemosensors11010015.

3. Jankov, M.; Ristivojević, P.; Cvijetić, I.; Milojković-Opsenica, D. Assessing Radical Scavenging Capacity of Sempervivum Tectorum L. Leaf Extracts: An Integrated High-Performance Thin-Layer Chromatography/ in Silico /Chemometrics Approach. *Journal of Chromatography A* **2023**, *1703*, 464082 (Chemistry, Analytical 25/86, IF2022=4.1). https://doi.org/10.1016/j.chroma.2023.464082.

4. Herceg Romanić, S.; Jaćimović, N.; Mendaš, G.; Fingler, S.; Stipičević, S.; Jakšić, G.; Popović, A.; Jovanović, G. Bedload Sediment Transport Model for Revealing the Multi-Year Trend of Polychlorinated Biphenyl Contamination in the River Sediment (Kupa, Croatia). *Environ Geochem Health* **2023**, *45* (11), 8473–8487 (Environmental Sciences 104/275, IF2022=4.2). https://doi.org/10.1007/s10653-023-01733-2.

5. Nikolić, S.; Arakelyan, J.; Kushnarev, V.; Mutasim Alfadul, S.; Stanković, D.; Kraynik, Y.; Grgurić-Šipka, S.; Babak, M. Coordination of Ru(II)-Arene Fragments to Dipyridophenazine 2 Ligands Leads to the Modulation of Their In Vitro and In Vivo 3 Anticancer Activity. *Inorganic Chemistry* **2023**, *62*, 8188–8199 (Chemistry, Inorganic & Nuclear 5/42, IF2022=4.6). https://doi.org/10.1021/acs.inorgchem.3c00570.

6. Cavic, M.; Nešić, A. N.; Mirjacic Martinovic, K.; Vuletic, A.; Besu Zizak, I.; Tisma Miletic, N.; Krivokuca, A.; Jankovic, R.; Gavrović-Jankulović, M. Detection of Humoral and Cellular Immune Response to Anti-SARS-CoV-2 BNT162b2 Vaccine in Breastfeeding Women and Naïve and Previously Infected Individuals. *Scientific Reports* **2023**, *13* (1), 6271 (Multidisciplinary Sciences 22/73, IF2022=4.6). https://doi.org/10.1038/s41598-023-33516-1.

7. Jovanović-Cvetković, T.; Sredojević, M.; Natić, M.; Grbić, R.; Akšić, M. F.; Ercisli, S.; Cvetković, M. Exploration and Comparison of the Behavior of Some Indigenous and International Varieties (Vitis Vinifera L.) Grown in Climatic Conditions of Herzegovina: The Influence of Variety and Vintage on Physico-Chemical Characteristics of Grapes. *Plants* **2023**, *12* (4), 695 (Plant Sciences 43/239, IF2022=4.5). https://doi.org/10.3390/plants12040695.

8. Mutić, S.; Stanković, D.; Kónya, Z.; Anojčić, J. Facile Immobilization of Cholesterol Oxidase on Pt,Ru–C Nanocomposite and Ionic Liquid–Modified Carbon Paste Electrode for an Efficient Amperometric Free Cholesterol Biosensing. *Anal Bioanal Chem* **2023**, *415* (23), 5709–5722 (Biochemical Research Methods 18/77, IF2022=4.3). https://doi.org/10.1007/s00216-023-04847-9.

9. Ninković, D.; Moncho, S.; Petrović, P.; Hall, M. B.; Zarić, S. D.; Brothers, E. N. Improving a Methane C–H Activation Complex by Metal and Ligand Alterations from Computational Results. *Inorganic Chemistry* **2023**, *62* (13), 5058–5066 (Chemistry, Inorganic & Nuclear 5/42, IF2022=4.6). https://doi.org/10.1021/acs.inorgchem.2c03342.

10. Sofrenić, I.; Anđelković, B. D.; Gođevac, D.; Ivanović, S.; Simić, K.; Ljujić, J.; Tešević, V.; Milosavljević, S. M. Metabolomics as a Potential Chemotaxonomical Tool: Application on the Selected Euphorbia Species Growing Wild in Serbia. *Plants* **2023**, *12* (2), 262 (Plant Sciences 43/239, IF2022=4.5). https://doi.org/10.3390/plants12020262.

11. Herceg Romanić, S.; Milićević, T.; Jovanović, G.; Matek Sarić, M.; Mendaš, G.; Fingler, S.; Jakšić, G.; Popović, A.; Relić, D. Persistent Organic Pollutants in Croatian Breast Milk: An Overview of Pollutant Levels and Infant Health Risk Assessment from 1976 to the Present. *Food and Chemical Toxicology* **2023**, *179*, 113990 (Toxicology 20/94, IF2022=4.3). https://doi.org/10.1016/j.fct.2023.113990.

12. Cvijetić, I.; Herlah, B.; Marinković, A.; Perdih, A.; Bjelogrlić, S. K. Phenotypic Discovery of Thiocarbohydrazone with Anticancer Properties and Catalytic Inhibition of Human DNA Topoisomerase IIα. *Pharmaceuticals* **2023**, *16* (3), 341 (Pharmacology & Pharmacy 71/278, IF2022=4.6). https://doi.org/10.3390/ph16030341.

13. Marković, S.; Andrejević, N. S.; Milošević, J.; Polović, N. Đ. Structural Transitions of Papain-like Cysteine Proteases: Implications for Sensor Development. *Biomimetics* **2023**, *8* (3), 281 (Engineering, Multidisciplinary 22/91, IF2022=4.5). https://doi.org/10.3390/biomimetics8030281.

14. Mutić, T.; Ognjanović, M.; Kodranov, I. D.; Robić, M.; Savić, S. D.; Krehula, S.; Stanković, D. The Influence of Bismuth Participation on the Morphological and Electrochemical Characteristics of Gallium Oxide for the Detection of Adrenaline. *Analytical and Bioanalytical Chemistry* **2023**, *415*, 4445–4458 (Chemistry, Analytical 20/86, IF2022=4.3). https://doi.org/10.1007/s00216-023-04617-7.

15. Jadranin, M.; Savić, D.; Lupšić, E.; Podolski-Renić, A.; Pešić, M.; Tešević, V.; Milosavljević, S.; Krstić, G. LC-ESI QToF MS Non-Targeted Screening of Latex Extracts of Euphorbia Seguieriana Ssp. Seguieriana Necker and Euphorbia Cyparissias and Determination of Their Potential Anticancer Activity. *Plants* **2023**, *12* (24) (Plant Sciences 43/239, IF2022=4.5). https://doi.org/10.3390/plants12244181.

16. Radić, B.; Radović, R.; Janić Hajnal, E.; Mandić, A.; Đekić, S.; Stojanović, Z.; Kos, J. Moniliformin Occurrence in Serbian Maize over Four Years: Understanding Weather-Dependent Variability. *Toxins* **2023**, *15* (11), 634 (Toxicology 23/94, IF2022=4.2). https://doi.org/10.3390/toxins15110634.

17. Chen, M.; Kumrić, K.; Thacker, C.; Prodanović, R.; Bolognesi, G.; Vladisavljević, G. T. Selective Adsorption of Ionic Species Using Macroporous Monodispersed Polyethylene Glycol Diacrylate/Acrylic Acid Microgels with Tunable Negative Charge. *Gels* **2023**, *9* (11), 849 (Polymer Science 18/86, IF2022=4.6). https://doi.org/10.3390/gels9110849.

18. Tatjana Ž. Verbić*, Kin Y. Tam, Dušan Ž. Veljković, Abu T. M. Serajuddin, and Alex Avdeef, Clofazimine p*K*a Determination by Potentiometry and Spectrophotometry: Reverse Cosolvent Dependence as an Indicator of the Presence of Dimers in Aqueous Solutions, *Mol. Pharm.* 20(6), 2023, 3160–3169, ISSN: 1543-8384, IF_{2022} 4.9

IF 3-4

1. Kokanov, S. B.; Filipović, N. R.; Višnjevac, A.; Nikolić, M.; Novaković, I. T.; Janjić, G.; Holló, B. B.; Ramotowska, S.; Nowicka, P.; Makowski, M.; Uğuz, Ö.; Koca, A.; Todorović, T. A Detailed Experimental and Computational Study of Cd Complexes with Pyridyl-Based Thiazolyl Hydrazones. *Applied Organometallic Chemistry* **2023**, *37* (1) (Chemistry, Applied 22/73, IF2022=3.9). https://doi.org/10.1002/aoc.6942.

2. Novaković, M. M.; Ilić-Tomić, T.; Đorđević, I.; Anđelković, B. D.; Tešević, V.; Milosavljević, S. M.; Asakawa, Y. Bisbibenzyls from Serbian Primula Veris Subsp. Columnae (Ten.) Lùdi and P. Acaulis (L.) L. *Phytochemistry* **2023**, *212*, 113719 (Plant Sciences 58/239, IF2022=3.8). https://doi.org/10.1016/j.phytochem.2023.113719.

3. Todorović, S.; Perić, M.; Nikolić, B.; Mandić, B.; Cvetković, S.; Bogdanović, M.; Živković, S. Chemical Characterization, Antioxidant Activity, and Cytotoxity of Wild-Growing and In Vitro Cultivated Rindera Umbellata (Waldst. and Kit.) Bunge. *Horticulturae* **2023**, *9* (3), 381(Horticulture 6/36, IF2022=3.1). https://doi.org/10.3390/horticulturae9030381.

4. Korać Jačić, J.; Bajuk-Bogdanović, D.; Savić, S. D.; Božić Cvijan, B.; Spasojević, M.; MIlenković, M. R. Coordination of Hydralazine with Cu2+ at Acidic pH Promotes Its Oxidative Degradation at Neutral pH. *Journal of Inorganic Biochemistry* **2023**, *243*, 112181 (Biochemistry & Molecular Biology 126/285, IF2022=3.9). https://doi.org/10.1016/j.jinorgbio.2023.112181.

5. Mrkalić, E.; Šmit, B.; Matić, S.; Jelić, R.; Ćendić Serafinović, M.; Gligorijević, N.; Čavić, M.; Aranđelović, S.; Grgurić-Šipka, S.; Soldatović, T. Exploring Heterometallic Bridged Pt(II)-Zn(II) Complexes as Potential Antitumor Agent. *J. Inorg. Biochem.* **2023**, 240 (Biochemistry & Molecular Biology 126/285, IF2022=3.9). https://doi.org/10.1016/j.jinorgbio.2022.112100.

6. Zrilić, S. S.; Živković, J. M.; Zarić, S. D. Hydrogen Bonds of a Water Molecule in the Second Coordination Sphere of Amino Acid Metal Complexes: Influence of Amino Acid Coordination. *Journal of Inorganic Biochemistry* **2023**, *242*, 112151 (Biochemistry & Molecular Biology 126/285, IF2022=3.9). https://doi.org/10.1016/j.jinorgbio.2023.112151.

7. Mijatović, A.; Gligorijević, N.; Ćoćić, D.; Spasić, S.; Lolić, A.; Aranđelović, S.; Nikolić, M.; Baošić, R. In Vitro and in Silico Study of the Biological Activity of Tetradentate Schiff Base Copper(II) Complexes with Ethylenediamine-Bridge. *Journal of Inorganic Biochemistry* **2023**, *244*, 112224 (Biochemistry & Molecular Biology 126/285, IF2022=3.9). https://doi.org/10.1016/j.jinorgbio.2023.112224.

8. Korina, E.; Abramyan, A.; Bol'shakov, O.; Avdin, V. V.; Savić, S. D.; Manojlović, D. D.; Stanković, V.; Stanković, D. Microspherical Titanium-Phosphorus Double Oxide: Hierarchical Structure Development for Sensing Applications. *Sensors* **2023**, *23* (2), 933 (Chemistry, Analytical 26/86, IF2022=3.9). https://doi.org/10.3390/s23020933.

9. Jevtović, M.; Pevec, A.; Turel, I.; Radanović, D.; Milčić, M.; Gruden, M.; Zlatar, M.; Mitić, D.; Anđelković, K.; Čobeljić, B. Nickel(II) and Nickel(III) Thiosemicarbazone and Hydrazone Complexes: An Unexpected Journey. *Inorganic Chemistry Communications* **2023**, *158* (Chemistry, Inorganic & Nuclear 10/42, IF2022=3.8). https://doi.org/10.1016/j.inoche.2023.111582.

10. Međedović, M.; Mijatović, A.; Baošić, R.; Lazić, D.; Milanović, Ž.; Marković, Z.; Milovanović, J.; Arsenijević, D.; Stojanović, B.; Arsenijević, M.; Milovanović, M.; Petrović, B.; Simović, A. R. Synthesis, Characterization, Biomolecular Interactions, Molecular Docking, and in Vitro and in Vivo Anticancer Activities of Novel Ruthenium(III) Schiff Base Complexes. *J Inorg Biochem* **2023**, *248*, 112363 (Chemistry, Inorganic & Nuclear 8/42, IF2022=3.9). https://doi.org/10.1016/j.jinorgbio.2023.112363.

11. Akšić Fotirić, M.; Tešić, Ž. L.; Kalaba, M.; Ćirić, I.; Pezo, L.; Lončar, B.; Gašić, U.; Dojčinović, B. P.; Tosti, T.; Meland, M. Breakthrough Analysis of Chemical Composition and Applied Chemometrics of European Plum Cultivars Grown in Norway. *Horticulturae* **2023**, *9*, 477 (Horticulture 6/36, IF2022=3.1). https://doi.org/10.3390/horticulturae9040477.

12. Jakšić, J.; Milinković, E.; Cvetanović, K.; Vujošević, Z. T.; Jovanov, V.; Mitrović, A.; Maslak, V. Exploring Fullerene Derivatives for Optoelectronic Applications: Synthesis and Characterization Study. *Physical Chemistry Chemical Physics* **2023**, *26* (1), 517–523 (Chemistry, Physical 88/161, IF2022=3.3). https://doi.org/10.1039/d3cp04322c.

13. Baranac-Stojanović, M.; Aleksić, J.; Stojanović, M. Theoretical Investigation of Tautomerism of 2- and 4-Pyridones: Origin, Substituent and Solvent Effects. *Organic and Biomolecular Chemistry* **2023**, *22* (1), 144–158 (Chemistry, Organic 14/53, IF2022=3.2). https://doi.org/10.1039/d3ob01588b.

14. Božilović, B.; Nikolić, B.; Waisi, H.; Trifković, J.; Dodevski, V.; Janković, B.; Krstić, S.; Mojović, M. Influence of 24-Epibrassinolide on the Energetic Parameters and Early Stages of Growth and Development in Seedlings of Two Maize (Zea Mays L.) Genotypes. *Agronomy* **2023**, *13* (7), 1673 (Agronomy16/89, IF2022=3.7). https://doi.org/10.3390/agronomy13071673.

15. Jakšić, J.; Milinković, E.; Cvetanović, K.; Vujošević, Z. T.; Jovanov, V.; Mitrović, A.; Maslak, V. Exploring Fullerene Derivatives for Optoelectronic Applications: Synthesis and Characterization Study. *Phys Chem Chem Phys* **2023**, *26* (1), 517–523 (Physics, Atomic, Molecular & Chemical 9/35, IF2022=3.3). https://doi.org/10.1039/d3cp04322c.

16. Sentic, M.; Trajkovic, I.; Manojlovic, D.; Stankovic, D.; Nikolic, M. V.; Sojic, N.; Vidic, J. Luminescent Metal–Organic Frameworks for Electrochemiluminescent Detection of Water Pollutants. *Materials* **2023**, *16* (23) (Metallurgy & Metallurgical Engineering 20/79, IF2022=3.4). https://doi.org/10.3390/ma16237502.

17. Pavlović, M.; Kahrović, E.; Aranđelović, S.; Radulović, S.; Ilich, P.-P.; Grgurić-Šipka, S.; Ljubijankić, N.; Žilić, D.; Jurec, J. Tumor Selective Ru(III) Schiff Bases Complexes with Strong In Vitro Activity Toward Cisplatin-Resistant MDA-MB-231 Breast Cancer Cells. *J. Biol. Inorg. Chem.* **2023**, *28*, 263–284 (Biochemistry & Molecular Biology 181/285, IF2022=3.0). https://doi.org/10.1007/s00775-023-01989-0.

18. Vesović, N.; Nenadić, M.; Vranić, S.; Vujisić, L. V.; Milinčić, K. M.; Todosijević, M.; Dimkić, I.; Janakiev, T.; Ćurčić, N. B.; Stevanović, N.; Mihajlović, L.; Vukoičić, D. Ž.; Ćurčić, S. The Chemical Composition of the Secretions, Their Antibacterial Activity, and the Pygidial Gland Morphology of Selected European Carabini Ground Beetles (Coleoptera: Carabidae). *Frontiers in Ecology and Evolution* **2023**, *11* (Ecology 66/171, IF2022=3.0*)*. https://doi.org/10.3389/fevo.2023.1120006.

19. Korać Jačić, J.; Dimitrijević, M.; Bajuk-Bogdanović, D.; Stanković, D.; Savić, S.; Spasojević, I.; Milenković, M. R. The Formation of Fe3+-Doxycycline Complex Is pH Dependent: Implications to Doxycycline Bioavailability. *J Biol Inorg Chem* **2023**, *28* (7), 679–687 (Biochemistry & Molecular Biology 181/285, IF2022=3.0). https://doi.org/10.1007/s00775-023-02018-w.

20. Nenadić, M.; Stojković, D.; Soković, M.; Ćirić, A.; Dimkić, I.; Janakiev, T.; Vesović, N.; Vujisić, L.; Todosijević, M.; Stanković, S. S.; Ćurčić, N. B.; Milinčić, U.; Petrović, D.; Milinčić, M.; Ćurčić, S. The Pygidial Gland Secretion of Laemostenus Punctatus (Coleoptera, Carabidae): A Source of Natural Agents with Antimicrobial, Anti-Adhesive, and Anti-Invasive Activities. *Frontiers in Ecology and Evolution* **2023**, 11 (Ecology 66/171, IF2022=3.0). https://doi.org/10.3389/fevo.2023.1148309.

21. F. Djurkovic, Z. Ferjancic and F. Bihelovic, Intramolecular Dearomative Inverse-Electron-Demand Diels Alder Strategy for the Total Synthesis of (+)-Alstonlarsine A, *J. Org. Chem.* **2023**, *88* (16), 11618–11626, https://pubs.acs.org/doi/10.1021/acs.joc.3c00923.