

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **First name(s) Surname(s)**

Bigovic Miljan

Address(es) Dragovolučka 2, Nikšić

Telephone(s) 040 242 746

Mobile: +382 68 662 124

Fax(es) +382 20 243 816

E-mail miljan@ac.me

Nationality Montenegrin

Date of birth August 13. 1984.

Gender Male

Desired employment / Occupational field (remove if not relevant, see instructions)
Organic chemistry, organic synthesis, environmental chemistry

Work experience

Dates

2009.- researcher / Innovation center of the Faculty, Belgrade

2011.- associate researcher / Innovation center of the Faculty, Belgrade

2012. – a teaching assistant / Faculty of Natural Science, University of Montenegro, Podgorica

2016 – assistant professor / Faculty of Natural Science, University of Montenegro, Podgorica

2016 - vice Dean for education / Faculty of Natural Science, University of Montenegro, Podgorica

2021 – associate professor / Faculty of Natural Science, University of Montenegro, Podgorica

2023. – dean / Faculty of Natural Science, University of Montenegro, Podgorica

Education and training

Dates

1999 – 2003 High school,, Stojan Cerovic "- Niksic, natural-mathematical direction

2003 – 2009 Undergraduate - Faculty of Chemistry, University of Belgrade, start off 07. 07. 2003. na study group *Chemist* ; finished the course Organic Chemistry with an average grade 8.93 during the study,; thesis titled „ Synthesis of cyclohexene derivates by domino reaction of allyl phosphate ” defended 25. september 2009. year, with an grade of 10 (ten)

2009 – 2015 Doctoral Studies - Faculty of Chemistry, University of Belgrade. Doctoral thesis with the title: „ Allylation with highly-functionalized organometallic reagents: 4-(bromomethyl) -1,3-dioxol-2-one as a synthetic equivalent of the enolate of the hydroxy ketones“ defended on 29 September 2015 at the Faculty of Chemistry.

Personal skills and competences

Mother tongue(s)

Specify mother tongue Serbian

Other language(s)

English (1)
Russian (2)

Self-assessment
European level ()*

Language
Language

| Understanding | | | | Speaking | | | | Writing | |
|---------------|------------------|---------|------------------|--------------------|------------------|-------------------|------------------|---------|------------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| C2 | experienced user | C2 | experienced user | C2 | experienced user | C2 | experienced user | C2 | experienced user |
| B1 | standalone user | B1 | standalone user | A2 | basic user | A1 | basic user | A2 | basic user |

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Communicative, team-oriented, social

Organisational skills and competences

Ability to work both individually and team-based, possessing organizational skills in terms of organizing work, assigning tasks and interpreting work results.

Technical skills and competences

Computer skills and competences

MS Office
Chemical programs: Chem Draw and Chem Scatch

Artistic skills and competences

Other skills and competences

Driving licence

C category

Additional information

Publications

M. Bigovic, V. Maslak, Z. Tokic-Vujosevic, V. Divjakovic and R. N. Saicic (2011), A useful synthetic equivalent of a hydroxyacetone enolate, *Organic Letters*, 13 (17), 4720-4723. ISSN: 1523-7060 (Print), ISSN: 1523-7052 (Online)

M. Bigovic, S. Skaro, V. Maslak, R. N. Saicic, (2013), Expanding the scope of the indium-promoted allylation reaction: 4-(bromomethyl)-1,3-dioxol-2-one as a synthetic equivalent of a 3-arylhydroxyacetone enolate, *Tetrahedron Letters*, 54, 6624-6626. ISSN: 0040-4039

T. Narancic, J. Radivojevic, P. Jovanovic, Dj. Francuski, **M. Bigovic**, V. Maslak, V. Savic, B. Vasiljevic, K. O'Connor, J. Nikodinovic-Runic, (2013), Highly efficient Michael-tupe addition of acetaldehyde to β -nitrostyrenes by whole resting cells of *Escherichia coli* expressing 4-oxalocrotonate tautomerase, *Bioresource Tehnology*, Vol. 142, 462-468, 2013. ISSN: 0960-8524

M. Bigović, DMF u organskoj sintezi: malo poznati aspekti dobro poznatog jedinjenja, *Hemijski pregled*, 2013, 54 (4), 86-93.

M. Bigović, Alkeni u organometalnoj hemiji: mali molekuli na velikim zadacima, *Hemijski pregled*, 2014, 55 (2), 37-47.

V.Kastratović, Ž. Jaćimović, **M. Bigović**, M.Kosović, D.Đurović, Speciation of copper in lake sediments and bioaccumulation of macrophytes Skadar Lake, Montenegro", International conference protection and restoration of the environment XII, Jun 2014, Skiathos Island, Greece, Book of abstracts, page 172

Kastratović, V., Krivokapić, S., **Bigović, M.**, Đurović, D., Blagojević, N. (2014) Bioaccumulation and translocation of heavy metals by *Ceratophyllum demersum* from Skadar Lake, Montenegro, *Journal of the Serbian Chemical Society*, 79(11): 1445–1460. ISSN 0352-5139 (Print) ISSN 1820-7421 (Online)

V. Kastratović, Ž. Jaćimović, D. Đurović, **M. Bigović**, S. Krivokapić, (2015), *Lemna minor* L. As bioindicator of heavy metal pollution in Skadar Lake, Montenegro, *Kragujevac Journal of Science* 37, 123-134. ISSN 1450-9636

Kastratović V., Jaćimović Ž., **Bigović M.**, Đurović D. and Krivokapić S. (2016) Environmental Status and Geochemical Assessment Sediments of Lake Skadar, Montenegro. *Environmental Monitoring and Assessment*, 448-464. DOI: 10.1007/s10661-016-5459-0

V. Kastratović, **M.R. Bigović**, Ž. Jaćimović, M.Kosović, D.Đurović, S. Krivokapić, „Bioaccumulation of cobalt and nickel in macrophytes from Skadar Lake“ 13th International Conference on Protection and Restoration of the Environment, 3rd to 8th July, 2016, Mykonos island, Greece, Book of abstract, page 150, ISBN: 978-6865-94-7

Vlatko Kastratović, Željko Jaćimović, **Miljan Bigović**, Dijana Đurović, Slađana Krivokapić (2016) The distribution and accumulation of chromium in the water, sediment and macrophytes of Skadar Lake, *Kragujevac Journal of Sciences*, 38: 125-134.

Vlatko R. Kastratović, **Miljan R. Bigović**, Esterifikacija stearinske kiseline sa alkoholima C1-C4, ,, 53. Savetovanje Srpskog hemijskog društva, Kragujevac, 10-11. jun 2016. godine (HZS P05, strana 66).

Vlatko Kastratović, Željko Jaćimović, **Miljan Bigović**, Milica Kosović, Dijana Đurović, Slađana Krivokapić (2017) Seasonal Patterns of copper in a system of sediment-water-macrophytes, *Fresenius Environmental Bulletin*, 26: 1247-1253.

Željko K. Jaćimović, Milica Kosović, Goran A. Bogdanović, Slađana B. Novaković, Gerald Giester and **Miljan Bigović** "The crystal structure of ethyl 1-(4-nitrophenyl)-5-(trifluoromethyl)-1H-pyrazole-4-carboxylate, C₁₃H₁₀F₃N₃O₄ " Zeitschrift für Kristallographie – New Crystal Structures 2017, 232 (4), 651-653.

Z. Jacimovic, M. Kosovic, J. Latinovic, **M. Bigovic**, V. Kastratovic, The Influence of Some Pyrazole Derivatives and Newly Synthetised Cu(II) Complexes to the Inhibition of *Phomopsis Viticola* in Vitro, 18th European Meeting on Environmental Chemistry Porto, Portugal, 26-29th November 2017, Book of abstracts 320.

Miljan Bigović, Žarko Zečević, Luka Filipović, Božo Krstajić, „Verification of the three-dimensional structure of synthesized molecule by molecular dynamic simulations", IEEE Eurocon 2017-17th International Conference of Smart Technologies, Ohrid, 6-8. July 2017, Book of abstracts 944-948.

For more information on Europass go to <http://europass.cedefop.europa.eu>

© European Union 2004-2010 24082010

Miljan Bigovic, Luka Filipovic, Zarko Zecevic, Bozo Krstajic, „Modeling and molecular dynamics simulations study of enol-carbonates and their derivatives,, Scalable Computing: Practice and Experience, 2018, Vol. 19, No. 2, 169-178.

Kastratovic V., **Bigovic M.**, (2018), Esterification of stearic acid with lower monohydroxylic alcohols, *Chemical Industry and Chemical Engineering Quarterly*, 24, 283-291.

Milena Milošević, Nevena Prlainović, Miloš Milčić, Vesna Nikolić, Aleksandra Božić, **Miljan Bigović**, Aleksandar Marinković, Solvent, structural, quantum chemical study and antioxidative activity of symmetrical 1-methyl-2,6-bis[2-(substituted phenyl)ethenyl] pyridinium iodides, *Journal of the Iranian Chemical Society*, **2018**, 15, 2483–2501.

Latinovic, N., Jacimovic, Z., Latinovic, J., Kosovic, M., Kastratovic, V., **Bigovic, M.**, The examination of potential fungicidal activity ethyl-3-(trifluoromethyl)-1H-pyrazole-4-carboxylate and ethyl-1-(4-nitrophenyl)-5-(trifluoromethyl)-1H-pyrazole-4-carboxylate on fungus *Botryosphaeria dothidea* under laboratory conditions, 25th Congress of Chemists and Technologists of Macedonia, Book of abstracts, p. 152, 19-22. September 2018, Ohrid, Macedonia.

Jevtić, V., Leka, Z., **Bigović, M.**, Kasalović, M., Bogojevski, J., Trifunović, S., Interakcije ditiokarbamato cinka (II) i paladijuma(II) kompleksa DNK izolovanom iz goveđeg timusa, 4. Međunarodni simpozijum o koroziji i zaštiti materijala, životnoj sredini i zaštiti od požara, Knjiga radova, strana 97, 18-21. Septembar 2018, Bar, Crna Gora.

Kastratović, V., Jaćimović, Ž., **Bigović, M.**, Organska materija u sedimentu Skadarskog jezera, Crna Gora, 4. Međunarodni simpozijum o koroziji i zaštiti materijala, životnoj sredini i zaštiti od požara, Knjiga radova, strana 139, 18-21. 2018. Septembar, Bar, Crna Gora.

Vlatko Kastratović, **Miljan Bigović**, Željko Jaćimović, Milica Kosović, Dijana Đurović, Slađana Krivokapić, „ Levels and distribution of cobalt and nickel in the aquatic macrophytes found in Skadar Lake, Montenegro, *Environmental Science and Pollution Research* , (2018) 25: 26823–26830.

Bigovic, M., Roganovic, M., Milasevic, I., Djurovic, D., Kastratovic, V., Slavic, V., Kosovic, M., Vlahovic, M., Perovic, S., Perovic, A., Potpara, Z., Martinovic, M., Pantovic, S., Physico-Chemical characterisation of Igalo peloid (Republic of Montenegro) and assessment of the pollution in the sampling area, 3rd International Congress of Chemistry and Chemical Engineers of Bosnia and Herzegovina, Book of Abstracts, p. 91, October 19-21. 2018, Sarajevo, Bosnia and Herzegovina.

Bigovic, M., Kastratovic, V., Pantovic, S., Roganovic, M., Milasevic, I., Ivanovic, Lj., Djurovic, D., Slavic, V., Kosovic, M., Vlahovic, M., Determination of fatty and amino acids in Igalo bay peloid (Montenegro) , 9th International Conference of the Chemical Societies of the South-East European Countries, May 8th – 11th, 2019, Targoviste, Romania.

Vazdar, K., Vazdar, M., **Bigovic, M.**, Visnjevac, A., Kosovic, M., Leka, Z., „Optimizacija metode sinteze etilen-diamin-monosircetne kiseline , H-EDMA,, 56. Savetovanje Srpskog hemijskog društva, Nis, 7-8. jun 2019. godine (OP P10, strana 98).

Bigovic, M., Kastratovic, V., Pantovic, S., Roganovic, M. ,Određivanje sadržaja masnih i aminokiselina u peloidu iz Igala (Crna Gora) , 56. Savetovanje Srpskog hemijskog društva, Nis, 7-8. jun 2019. godine (OP P11, strana 99).

Vlatko Kastratović, Dijana Đurovic, Slađana Krivokapić, Željko Jaćimović, **Miljan Bigović**, The influence of organic substances on the accumulation and mobility of metals in the sediment of Skadar Lake, 8th International Symposium of Ecologists, ISEM8, 2-5 October 2019, Budva, Montenegro. Abstract book, p. 89.

Bigovic, M., Roganovic, M., Milasevic, I., Djurovic D., Slavic, V., Kastratovic, V., Pantovic, S., The Content of Heavy metals in the Igalo peloid and Calculation of Environmental Parameters, 8th International Symposium of Ecologists, ISEM8, 2-5 October 2019, Budva, Montenegro. Abstract book, p. 110.

Bigovic, M., Pantovic, S., Milasevic, I., Ivanovic, Lj., Djurovic, D., Slavic, V., Popovic, M., Vrvic, M., Roganovic, M., Organic composition of Igalo bay peloid (Montenegro), *Indian Journal of Traditional Knowledge*, 2019, 18(4), 837-848.

Annexes

Bigović, M., Jovanović, J., Majstorović, H., Pantović, S., Roganović, M., Ivanović, Lj, Djurović, D., Popović, M., Determination of proteins and carbohydrates in Igalo bay peloid (Montenegro) , 9th Conference of the Serbian Biochemical Society: 'Diversity in Biochemistry'14-16 November 2019, Belgrade, Serbia., Abstract book, p. 79.

Damnjan Nuculović, **Miljan Bigović**, Yannick Ney, Claus Jacob, Synthesis of schiff bases and their antimicrobial activities, Montenegrin international medical summit, 3-6. October 2019, Podgorica, Montenegro, Abstract Book p.80.

Jovana Jovanović, Ljudmila Radivojevic, Zorana Savovic, **Miljan Bigović**, Synthesis of the schiff bases of carbonyles with thiocarbohydrazide and optimization of their 3d structure and geometry, Montenegrin international medical summit, 3-6. October 2019, Podgorica, Montenegro, Abstract Book p.82.

Damnjan Nuculovic, **Miljan Bigovic**, Yannick Ney, Claus Jacob, New Schiff Bases and Their Antimicrobial and Anticancer Abilities, 5th International Medical Student Congress, 20-22. Februar 2020, Sarajevo, Bosna and Herzegovina, Abstract Book p.103.

M. Bigović, V. Grujić, Citostatici-molekuli koji liječe, *Hemijski pregled*, 2020, 61 (2), 39-48

M. Bigovic, M. Roganovic, I. Milasevic, D. Djurovic, V. Slavic, M. Kosovic, M. Vlahovic, S. Perovic, A. Perovic, V. Kastratovic, Z. Potpara, M. Martinovic, S. Pantovic, Physico-chemical characterization of igalo bay peloid (Montenegro) and assessment of the pollution of potentially toxic elements in the sampling area. *FARMACIA*, 2020, 68(3), 560-571

M. Tadić, **M. Bigović**, D. Djurović, M. Jakić, I. Nikolic, , Simultaneous Removal of Cu²⁺, Zn²⁺ and Cd²⁺ from Aqueous Solutions by Alkali Activated Slag, *Periodica Polytechnica Chemical Engineering*, 2021, 65(3), 389–399, 2021.

M. Bigovic, S. Pantovic, M. Roganovic, D. Nuculovic, M. Kaludjerovic, Synthesis of some new complex salts of Schiff bases with cooper, nickel and cink, calculation of their quantitative structure-activity relationships (QSAR) and determination of their antioxidative activity, 3rd International Scientific and Practical Internet Conference, 11-12. August, Dnipro, Ukraine, 2021, Abstract Book p. 32.

M. Bigovic, D. Nuculovic, J. Camdzic, M. Kaludjerovic, J. Jovanovic, Synthesis of some new Schiff bases and computer calculation of their quantitative structure activity relationship (QSAR) and optimisation of their 3d structure, 3rd International Scientific and Practical Internet Conference, 11-12. August, Dnipro, Ukraine, 2021, Abstract Book p. 33.

S. Pantovic, **M. Bigovic**, M. Roganovic, N. Lalatovic, The impact of the COVID-19 pandemic on the implementation of project activities of the teams of the Faculty of Medicine and the Faculty of Natural sciences and Mathematics of the University of Montenegro within Center of excellence for biomedical research (CEBIMER), 3rd International Scientific and Practical Internet Conference, 11-12. August, Dnipro, Ukraine, 2021, Abstract Book p. 32.

I. Cvijetić, **M. Bigović**, P. Ristivojević, M. Vitorović-Todorović, M. Zloh, D. Milojković-Opsenica, DFT study of the radical scavenging activity of isoxanthohumol, humulones (α -acids) and iso- α -acids from beer, *Structural Chemistry*, 32(5), 2051-2059, 2021.

D. Milošević, **M. Bigović**, D. Mrdak, I. Milašević, M. Piria, Otolith morphology and microchemistry fingerprints of European eel, *Anguilla anguilla* (Linnaeus, 1758) stocks from the Adriatic Basin in Croatia and Montenegro, *Science of the Total Environment*, 786 147478, 1-9, 2021.

Miljan Bigović, Nevena Keković, Dušan Keković, Recycling of cellulose acetate from cigarette butts by chemical methods and its application, 21st European Meeting on Environmental Chemistry, 30.November – 03. December 2021, Novi Sad, Serbia, Book of Abstracts, p.111.

Miljan Bigović, Snežana Pantović, Milovan Roganović, Milica Kosović-Perutović, Željko Jaćimović, Comparison of heavy metal content in peloids from Igalo and Sutomore (Montenegro) and assessment of the environment state, 21st European Meeting on Environmental Chemistry, 30.November – 03. December 2021, Novi Sad, Serbia, Book of Abstracts, p.127.

Miljan Bigović, Marija Kaluđerović, Jovana Jovanović, Jelena Čamdžić, Damnjan Nuculović, Šifove baze-struktura, sinteza i primjena, *Hemijski pregled*, 2021, 62 (3), 104-111.

M. Bigovic, S. Pantovic, M. Roganovic, M. Kaludjerovic, Z. Jacimovic, Comparasion of heavy metal content ih three peloids from Montenegro, 1st Intetnational Scinetific and Practical Internet Conference, Dnipro, Ukraine, 7-8 April 2022., Book of abstract pp 42-43.

M. Bigovic, M. Kaludjerovic, J. Jovanovic, D. Nuculovic, N. Pralinovic, Antioxidant properties of new asymmetric Schiff bases of aromatic aldehydes with thiocarbohydrazide, 1st Intetnational Scinetific and Practical Internet Conference, Dnipro, Ukraine, 7-8 April 2022., Book of abstract pp 44.

D. Nuculovic, **M. Bigovic**, S. Pantovic, M. Kaludjerovic, J. Jovanovic, Development and docking of the new inhibitors for dihydrofolate reductase mutants, 1st Intetnational Scinetific and Practical Internet Conference, Dnipro, Ukraine, 7-8 April 2022., Book of abstract pp 134.

D. Nuculovic, **M. Bigovic**, S. Pantovic, M. Kaludjerovic, J. Jovanovic, Thiocarbohydrazones as new carbonic anhydraze inhibitors: synthesis and docking study, 1st Intetnational Scinetific and Practical Internet Conference, Dnipro, Ukraine, 7-8 April 2022., Book of abstract pp 135.

S. Pantovic, **M. Bigovic**, M. Roganovic, M. Zdralovic, M. Kaludjerovic, Synthesis and testng of biological activities of Schiff bases – an example od successful cooperation between two faculties, 1st Intetnational Scinetific and Practical Internet Conference, Dnipro, Ukraine, 7-8 April 2022., Book of abstract pp 138.

M. Bigović, M. Đolić, Izazovi u održivom obrazovanju – inženjerska perspektiva, Prva konferencija Centra izvrsnosti za biomedicinska istraživanja „Održivi zdravstveni turizam“, Igalo 12-14.05.2022. godine, Book of abstracts, pp.15-16.

M. Bigović, M. Kaluđerović, J. Jovanović, V. Maslak, N. Prlainović, Šifove baze: raznolikost farmakofora i širok spektar njihove primene, Prva konferencija Centra izvrsnosti za biomedicinska istraživanja „Održivi zdravstveni turizam“, Igalo 12-14.05.2022. godine, Book of abstracts, pp.20-21.

Miljan Bigović, Damnjan Nuculović, Marija Kaluđerović, Jovana Jovanović, Nevena Prlainović, Šifove baze i molekulski doking, *Hemijski pregled*, 2022, 63 (2), 34-41.

M. Kosovic Perutovic, P. Zekic, Z. Cetkovic, D. Jacimovic, Z. Jacimovic, **M. Bigovic**, Z. Bulatovic, Milk from Montenegro farms: monitoring and quality of raw milk and dairy products, *Advanced food and Sciences*, 2022, 44 (1), 15-21.

Miljan Bigović, Dijana Đurović, Irena Nikolić, Ljubica Ivanović, Borko Bajić, Characteristic, source and ecological risk of PAHs in agrcultural soils Pljevlja Municipality (Montenegro), 29th International Conference Ecological Truth and Envinronmental Research, Sokobanja, Serbia , 21-24 June 2022, Book of abstracts pp 85-90.

Bigović, M., Kaluđerović, M., Nuculović, D, Jovanović, J., Prlainović, N., Optimisation of Schiff bases synthesis reaction between aldehydes and thiocarbohydrazide (dHS), 4th International Congress of Chemistry and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 30. June -02. July 2022, Book of Abstracts, p157.

Bigović, M., Kaluđerović, M., Kosović-Perutović, M., Vlahović-Stanković, M., Jaćimović, Ž., Synthesis of complex salts of Schiff bases with salts of some transition metals and their characterisation, 4th International Congress of Chemistry and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 30. June -02. July 2022, Book of Abstracts, p 162.

Miljan Bigović, Dijana Đurović, Irena Nikolić, Ljubica Ivanović, Borko Bajić, Profile, sources, ecological and health risk assessment of PAHs in agricultural soil ina a Pljevlja Municipality, *International Journal of Envinronmental Research*, 2022, 16/90, 1-14.

Alija Kalač, **Miljan Bigović**, Ana Pešić, Danilo Mrdak, Dragana Milošević, Microchemistry fingerprint of three clupied fish species from South Adriatic Sea (Montenegro), 2nd Southeast European Ichthyological Conference (SEEIC), Brač, Croatia, 12-15. October 2022, Book of Abstract, p. 31.

Miljan Bigovic, Zeljko Jacimovic, Sergiu Shova, Marija Kaludjerovic, Synthesis and crystal structure of 1,5-dibenzylidene thiocarbohydrazide, 8th Conference of Yong Chemists of Serbia, Belgrade, Serbia, 29. October 2022, Book of Abstracts, p 16.

Miljan Bigovic, Snezana Pantovic, Jovana Jovanovic, Marija Kaludjerovic, Determination of total organic matter and total organic carbon in Igalo bay peloid, 8th Conference of Young Chemists of Serbia, Belgrade, Serbia, 29. October 2022 Book of Abstracts, p 17.

Nevenka Mikac, Martina Furdek Turk, Dragana Petrović, **Miljan Bigović**, Sladjana Krivokapić, First assessment of butyltins (BuTs) contamination of the Montenegrin coast (Southeast Adriatic): Tributyltin (TBT) poses a threat to the marine ecosystem, Marine Pollution Bulletin, 185, 114270, 2022.

S. Pantović, **M. Bigović**, M. Roganović, B. Pantelić, Pharmaceutical potential of organic matters composed in peloid from Igalo, The 4th Congress of pharmacists of Montenegro with international participation, Budva, Montenegro, 11-14. May 2023., Book of Abstracts, p. 55.

S. Pantović, **M. Bigović**, M. Roganović, B. Pantelić, Pharmaceutical potential of minerals isolated from Igalo bay peloid, The 4th Congress of pharmacists of Montenegro with international participation, Budva, Montenegro, 11-14. May 2023., Book of Abstracts, p. 135.

Miljan Bigović, Marija Kaluderović, Comparison of the content of heavy metals in cigarette butts before and after chemical defense, Scientific meeting "Ecological sustainability and climate change", 14-15. September 2023, Žabljak, Scientific monograph p. 417-425.

Miljan Bigović, Raško Kljajić, Marija Kaluderović, Jovana Jovanović, Haris Majstorović, Svjetlost u malo drugačijoj ulozi, *Hemijski pregled*, 2023, 64 (2), 36-45.

Miljan Bigovic, Marija Kaludjerovic, Jovana Jovanovic, Dijana Djurovic, Zeljko Jacimovic, Comparison of organic substance content in peloids from Sutomore and Igalo (Montenegro), 2nd International Conference of Chemo and Bioinformatics, Kragujevac, Serbia, 28-29. September 2023, Book of Proceedings, p.100-103.

M. Kosovic Perutovic, Z. Leka, **M. Bigovic**, V. Medojevic, Mechanochemistry: optimisation of the synthesis of dithiocarbamate derivatives, 2nd International Conference of Chemo and Bioinformatics, Kragujevac, Serbia, 28-29. September 2023, Book of Proceedings, p.249-252.

Miljan Bigovic, Marija Kaludjerovic, Jovana Jovanovic, Haris Majstorovic, Milica Kosovic-Perutovic, Synthesis of Schiff bases between some five-membered heterocyclic aldehydes and thiocarbohydrazide (TCH) and optimisation of reaction conditions, 2nd International Conference of Chemo and Bioinformatics, Kragujevac, Serbia, 28-29. September 2023, Book of Proceedings, p.435-438.

M. Bigović, M. Kaluderović, J. Jovanović, M. Kosović-Perutović, Ž. Jaćimović, Comparing the content of heavy metals in peloids from Sutomore and Igalo (Montenegro), 23rd European Meeting on Environmental Chemistry (EMEC23), Budva, Montenegro, 3-6. December 2023, Book of Abstracts, p. 24.

D. Đurović, I. Nikolić, N. Cupara, I. Milašević, Lj. Ivanović, **M. Bigović**, M. Vrvic, Heavy metals and PAHs content in agricultural soil in the vicinity of thermal plant in Pljevlja (Montenegro): ecological risk assessment, 23rd European Meeting on Environmental Chemistry (EMEC23), Budva, Montenegro, 3-6. December 2023, Book of Abstracts, p. 29.

V. Lukić, M. Ponjavić, M. Čujić, M. Stojković, M. Đolić, **M. Bigović**, N. Prlainović, Bacterial nanocellulose as a potential adsorbent for strategic and heavy metals removal, 23rd European Meeting on Environmental Chemistry (EMEC23), Budva, Montenegro, 3-6. December 2023, Book of Abstracts, p. 36.

A. Mašulović, J. Lađarević, A. Ivanovska, M. Kostić, N. Prlainović, **M. Bigović**, D. Mijin, Reducing wastewater in textile industry: innovative dyeing approach, 23rd European Meeting on Environmental Chemistry (EMEC23), Budva, Montenegro, 3-6. December 2023., Book of Abstracts, p. 64.

M. Bigović, M. Kaluderović, M. Mićunović, N. Keković, D. Đurović, Removal of heavy metals from cigarette butts in different ways and their recycling, 23rd European Meeting on Environmental Chemistry (EMEC23), Budva, Montenegro, 3-6. December 2023., Book of Abstracts, p. 87.

Miljan Bigović, Dijana Đurović, Ljubica Ivanović, Maja Blagojević, Amil Orahovac, Helath risk assessment of acrylamide in potato from Montenegrin market, 31st International Conference Ecological Truth and Environmental Research, Sokobanja, Serbia, 18-21. June 2024, Book of Abstracts, p. 520-523.

Kočović, D., Giester, G., Tomić, Z. D., **Bigović, M.**, Jaćimović, Ž., Molecular and crystal structure of the tetrakis(4-methyl-1H-pyrazole)-bis(acetato)nickel(II)^{II}, 5th International Congress of Chemistry and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 27-30. June 2024, Book of Abstracts, p 114.

Bigović, M., Kaluđerović, M., Nikolić, A., Mojović, M., Nakarada, Đ., Antioxidative profiling of novel Schiff bases: a comprehensive EPR and DPPH analysis, 5th International Congress of Chemistry and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 27-30. June 2024, Book of Abstracts, p 141.

Bigović, M., Kaluđerović, M., Jovanović, J., Prlainović, N., Jaćimović, Ž., Optimisation of Schiff bases synthesis reaction between carbonyl compounds and thiocarbonylhydrazide (dHS) using ultrasound, 5th International Congress of Chemistry and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 27-30. June 2024, Book of Abstracts, p 142.

Jovanović, J., **Bigović, M.**, Kaluđerović, M., Majstorović, H., Rakočević, A., Synthesis and characterisation of a cooper(II) complex with N-[(1E)-1-(2-hydroxyphenyl)ethylidene]hydrazinecarbothioamide ligand, 5th International Congress of Chemistry and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 27-30. June 2024, Book of Abstracts, p 143.

Kaluđerović, M., **Bigović, M.**, Jovanović, J., Majstorović, H., Rakočević, A., Antioxidant activity of Schiff bases derived from acetophenones and benzaldehyde, 5th International Congress of Chemistry and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina, 27-30. June 2024, Book of Abstracts, p 144.

Ž. Jaćimović, S. Shova, D. Kočović, **M. Bigović**, Z. Tomić, Trinuclear dichloro-bridged cobalt complex with 5-(4-bromophenyl)-3-methyl-1H-pyrazole, 29th Conference of the Serbian Crystallographic Society, Ruma, Serbia, 27-28. June 2024, Book of Abstracts, p107.

Miljan Bigović, Marija Kaludjerović, Sergiu Shova, Zoran D. Tomić, Željko K. Jaćimović, Crystal structure of 1,5-bis[(E)-1-(2-hydroxyphenyl)ethylidene]thiocarbonohydrazide dimethyl sulfoxide monosolvate, C₁₇H₁₈N₄O₂S·C₂H₆OS, *Zeitschrift für Kristallographie - Crystalline Materials*, 2024, 239(5), 941-943.

Miljan Bigović, Comparasion of the influence of extractive techniques on the content of heavy metals in cigarette butts, Scientific assembly, „Održivo ponašanje za održivu budućnost“, july 2024., Žabljak, scientific monograph pp. 136-147.

D. Kočović, S. Shova, Z. Tomić, **M. Bigović**, Ž. Jaćimović, Molecular and crystal structure od the bis(acetato)-bis(4-methyl-1H-pyrazole)-Zink(II)^{II}, 27th Congress of the Society of Chemists and Technologists of Macedonia, Skopje, 25-28. September 2024, Book of Abstracts, p190.

Milica Vučurović, Slađana Krivokapić, Dragana Petrović, **Miljan Bigović**, The effect of heavy metals accumulation on bioactive compounds in the fruiz of *Trapa natans* L., Lake Skadar, Montenegro, 5th International Conference on Plant Biology, 3-5. October 2024, Srebarno jezero, Serbia, Book of Abstracts pp68.

Ana Radović, Željko Jaćimović, Bogoljub Kandić, Nedeljko Latinović, **Miljan Bigović**, Biological effectiveness of newly synthesized [NiL(H₂O)₂] on fungy Phomopsis viticola, 24rd European Meeting on Environmental Chemistry (EMEC24), Alicante, Spain, 26-29 November 2024., Book of Abstracts, p. 102.

- From 2014 hired as a tutor and lecturer at the Winter and Summer School of Science, organized by the Foundation Prona;
- Coordinator of the first items of chemistry at the Days of Science at the Faculty of Science, held in 2015 under the name „Take a peek into the magical world of Chemistry. "
- Head of Chemistry booth at the event,, Researchers' Night "organized by the Prona foundation, called,, How are living beings defend - chemistry at work."
- Coordinator of Chemistry for the competition "Olympiad of Knowledge" organized by the Faculty of Natural Science and Mathematics, University of Montenegro;
Participant in a number of bilateral projects between Montenegro on the one hand and Serbia,
- Investigation of pollution of the Montenegrin coast and Lake Skadar with organotin compounds and toxic metals (Montenegro-Croatia, 2014-2016);
- Impact of heavy metals on changes in metabolism of medicinal plants (Montenegro-Serbia, 2016-2018);
- Synthesis, characterization and biological aspects of new dithiocarbamate complexes of some transition metals (Montenegro-Serbia, 2016-2018);
- Synthesis, physicochemical and structural investigations of new, potentially biologically active Schiff base dithiocarbamate derivatives (Montenegro-Croatia, 2016-2018);
- Synthesis, physicochemical characterization and potential biological characterization-activity of new transition metal complex compounds with pyrazole and its derivatives (Montenegro-Hungary, 2016-2018);
- Graph Modeling in Mathematical Chemistry (Montenegro-Slovenia, 2018-2020).
- Stochastic averaging of speed and trace existence on manifolds (Montenegro - Austria, 2024-2026)
- The head of a bilateral project with Serbia called Synthesis of Schiff bases and testing of their antimicrobial and antioxidant capacity for the period 2019-2021.
- The head of a bilateral project with Slovenia called Use of pine biomass from the Adriatic coast for the synthesis of multifunctional materials for the period 2025-2026.
- Member of the project "**Balneological effects of peloids, mineral water, medicinal and aromatic herbs on inflammatory response in rheumatoid and cardiovascular diseases (period 2018-2020).**
- **Member of the at the Center for Excellence in Biomedical Researches (CEBIMER), as head of research in the field of chemistry and a member of the Center's Scientific Committee.**
- **The research included testing the content of toxic substances (heavy metals, organic pollutants) in the peloid from Igalo, which is otherwise used for medical treatments.**
- Reviewer of the publication "Manual for Laboratory Diagnostics", by Snezana Pantovic and Ivan Dozic, published by the Faculty of Medicine, University of Montenegro, Podgorica, 2017.
- Author of the chapter in the textbook "Fundamentals of biochemistry" for students of high medical school, edited by Snezana Pantovic, published by the Faculty of Medicine, University of Montenegro, Podgorica, 2018.
- Co-author of the textbook "Chemistry for the fourth grade of high school" published by the Institute for Textbooks and Teaching Aids, Podgorica, 2020.
- Reviewer of "Collections of Assignments for the Fourth Grade of High School" by Stanojka Vučurović, Željko Jaćimović and Vlatko Kastratović, published by the Institute for Textbooks and Teaching Aids, Podgorica, 2020.
- Member of Editorial key reviewers committee of Journal of Achievements in Materials and Manufacturing Engineering (International scientific journal)
 - Reviewer of "Collection of assignments for the fourth grade of high school" by Stanojka Vučurović, Željko Jaćimović and Vlatko Kastratović, published by the Institute for Textbooks and Teaching Aids, Podgorica, 2020.
 - Reviewer of "Collection of assignments for the third grade of high school" by Stanojka Vučurović, Željko Jaćimović and Vlatko Kastratović, published by the Institute for Textbooks and Teaching Aids, Podgorica, 2020.
 - reviewer in a large number of journals of national and international importance that deal with topics in the field of organic chemistry and environmental chemistry.
-
- At the 56th Meeting of the Serbian Chemical Society, I was a member of the jury for awarding the IUPAC prize for the best poster presentation;
- Winner of a grant for participation in the "School of Proteomics", which was held in February 2020 at the Faculty of Chemistry of the University of Belgrade, and which was organized as part of the FoodEnTwin project.
- mentor and commentator for students of basic, specialist and master's studies, and I am a member of several committees for the defense of final, specialist and master's theses at the Faculty of Science and other organizational units of UCG.
-
- Member of the Editorial key reviewers committee of the Journal of Achievements in Materials and Manufacturing Engineering.
- Member of the organizing committee of the international scientific meeting "Ecological sustainability and climate change", September 14-15, 2023, Žabljak.

-
- - Editor of the scientific monograph "Ecological sustainability and climate change", Podgorica, 2023.
- - Member of the Organizing Committee and vice-president of the 23rd European Conference of Chemistry of the Environment (European Meeting on Environmental Chemistry, EMEC), 3-6. December 2023, Budva
- - Member of the Working Group for the Drafting of the National Chemicals Management Strategy 2023-2026 with an action plan.
- Member of the Board of Education of the Montenegrin Academy of Sciences and Arts (CANU) from June 19, 2024.
- - Winner of the "Oktoih" state award for 2024 for exceptional results in the field of education.