

## University of Kragujevac, Faculty of Science

Name, father's/mother's name and family name: **Marina, Sibin, Ćendić Serafinović**

Employment: Assistant professor, Faculty of Science, University of Kragujevac

Contact e-mail, phone, and web page (if available): [marina.cendic@pmf.kg.ac.rs](mailto:marina.cendic@pmf.kg.ac.rs),  
+381 69 3839763, [др Марина Ћендић-Серафиновић \(kg.ac.rs\)](http://dr.Marina.Ćendić-Serafinović.kg.ac.rs)

Name and address of the Scientific institution during the implementation of the Project and Scientific institution contact person: **Department of Chemistry, Faculty of Science, University of Kragujevac, Radoja Domanovića 12, 34000 Kragujevac, Serbia**

- **Date and place of birth:** 04.03.1985., Kragujevac, Serbia
- **Age:** 38
- **Citizenship:** Serbian
  
- **Research field and area/areas (at most five):** Chemistry, inorganic chemistry, computer chemistry, medicinal chemistry, pharmaceutical chemistry
  
- **Education: bachelor, master, and Ph.D. studies (university/faculty), degrees and corresponding fields, dates (years) of enrolment and graduation, titles of defended final papers/theses and average grades for all education levels.**
  1. Ph.D – 07.07.2017. Doctor of inorganic chemistry, theses title “Chelating properties of edta-type ligands in relation to copper (II) – the possible application in neurotoxic disorders”, 10.00
  2. BSc – 29.10.2008. Bachelor of Chemistry, title “Synthesis and characterization of copper (II)-complexes with asymmetric pentadentate diamine-tricarboxylate ligands of ed3a-type” 10.00
  
- **Name, family name and title of the Ph.D. thesis supervisor:** Prof. Dr. Zoran D. Matović
  
- **Dates of appointments (researcher and scientific titles, i.e., equivalent titles in higher education).**

09.09.2020 – assistant professor  
17.05.2017 – teaching assistant  
08.04.2009 – research assistant
  
- **Employment history (institutions and to/from dates up to the day of the proposal submission).**
  1. 17.05.2017. – 09.09.2020. present, Faculty of Science, University of Kragujevac,
  2. 09.03.2016. – 17.05.2017., Faculty of Science, University of Kragujevac
  3. 17.01.2013 – 09.03.2016., Faculty of Science, University of Kragujevac,
  4. 08.04.2009. – 17.01.2013., Faculty of Science, University of Kragujevac,

- **List of selected publications:**

1. Svetlana Belošević, Marina Ćendić, Maja Đukić, Miorad Vasojević, Auke Meetsma, Zoran D. Matović, *Crystal structure, configurational and density functional theory analysis of nickel(II) complexes with pentadentate 1,3-pd3a-type ligands*, *Inorganica Chimica Acta*, **399**, 146-153 (2013)

2. Svetlana Belošević, Marina Ćendić, Zoran D. Matović, Auke Meetsma, *Crystal structure, configurational and DFT-NEDA analysis of nickel(II) complexes with pentadentate ed3a-type ligands*, *Polyhedron* **50**, 473-480 (2013)

3. Zoran D. Matović, Vesna D. Miletić, Marina Ćendić, Auke Meetsma, Petra J. van Koningsbruggen, Robert J. Deeth, *Synthetic, Crystallographic, and Computational Study of Copper(II) Complexes of Ethylenediaminetetracarboxylate Ligands*, *Inorganic Chemistry*, **52** (3), 1238-1247 (2013)

4. Marina Ćendić, Zoran D. Matović and Robert J. Deeth, *Molecular Modeling for Cu(II)-Aminopolycarboxylate Complexes: Structures, Conformational Energies and Ligand Binding Affinities*, *Journal of Computational Chemistry*, **34** (31), 2687–2696(2013)

5. Marina Ćendić, Robert J. Deeth, Auke Meetsma, Eugenio Garribba, Daniele Sanna, Zoran D. Matović *Chelating properties of EDTA-type ligands containing six-membered backbone ring toward copper(II): Structure, EPR and TD-DFT evaluation*, *Polyhedron*, **124**, 215-228 (2017)

6. Miroslav Sovrlić, Emina Mrkalić, Ratimir Jelić, Marina Ćendić Serafinović, Stefan Stojanović, Nevena Prodanović and Jovica Tomović, *Effect of Caffeine and Flavonoids on the Binding of Tigecycline to Human Serum Albumin: A Spectroscopic Study and Molecular Docking*, *Pharmaceuticals*, **266**,15(3), (2022)

7. Tanja V. Soldatović, Biljana Šmit, Emina M. Mrkalić, Sanja Lj. Matić, Ratimir M. Jelić, Marina Ćendić Serafinović, Nevenka Gligorijević, Milena Cavić, Sandra Arandelović, Sanja Grgurić-Šipka, *Exploring heterometallic bridged Pt(II)-Zn(II) complexes as potential antitumor agents*, *Journal of Inorganic Biochemistry*, **240**, 112100 (2023)

8. Majda Kolenović Serezlić, Rušid Hasić, Darko Ašanin, Biljana Šmit, Sanja Lj. Matić, Marina Ćendić Serafinović, Danijela Nikodijević, Jovana Jovankić, Sanja Grgurić-Šipka, Tanja V. Soldatović, *Heterometallic bridged Pt(II)-Zn(II) complexes: Influence of the substituent in 4'-position in inert terpy ligand on antigenotoxicity, potential antitumor activity and mechanism of interactions of the complexes with biomolecules*, *Applied Organometallic Chemistry*, **38**, (4) (2024)

- **List of selected conferences:**

1. Marina Ćendić, Emina Mrkalić, dr Zoran Matović, mr Vesna Matović, dr Vesna Miletić, *Globalno zagrevanje i lokalni ekološki akcioni plan grada Kragujevcaragujevca*, 5. Nacionalna konferencija o kvalitetu života, 2010, Kragujevac

2. Z. Matović, V. Miletić, M. Ćendić, E. Mrkalić, P. van Koningsbruggen, A. Meetsma, *Structure and DFT analyse of complexe [Ni(H<sub>2</sub>O)<sub>6</sub>][Ni(ed3a)(H<sub>2</sub>O)]<sub>2</sub>·2H<sub>2</sub>O*, XVII Konferencija srpskog kristalografskog društva, 2010, Ivanjica

3. Z.D. Matović, V.D. Miletić, E.M. Mrkalić, M.S. Ćendić, G. Bogdanović, V. Kojić, Molecular Modeling, Structure and Antitumor Activity of Pd(II) complexes with carboxylate derivatives of oxalic and malonic acid diamides, 10<sup>th</sup> European Biological Inorganic Chemistry Conference, 2010, Thessaloniki, Greece
4. Žižić J, Ćurčić M, Obradović A, Mrkalić E, Matović Z, Ćendić M, Djurdjević P, Živić D, Marković S. "Evaluation of antiproliferative activity of new palladium complexes and mechanism of cell death on HCT-116 and MDA-MB-231 cell lines" Scientific Conference with International Participation "Preclinical Testing of Active Substances and Cancer Research", Kragujevac 2011, p13. ISBN 978-86-7760-064-8
5. Zoran D. Matović, Marina S. Ćendić, Maja B. Đukić, Svetlana K. Belošević, Auke Meetsma, Petra J. van Koningsbruggen "Synthesis and characterization of Nickel(II) complex with unsymmetrical pentadentate, H<sub>3</sub>pd<sub>3</sub>a ligand" FIRST INTERNATIONAL CONFERENCE OF YOUNG CHEMISTS OF SERBIA, 2012, Belgrade, Serbia
6. Mrkalić, E.; Ćendić Serafinović, M.; Stojanović, S.; Sovrlić, M.; Jelić, R. Binding of tigecycline to human serum albumin in the presence of (+)-catechin, in Proceedings of the 7th International Electronic Conference on Medicinal Chemistry, 1–30 November 2021, MDPI: Basel, Switzerland, M33, <https://dx.doi.org/10.3390/ECMC2021-11366>
7. Djurović, A.; Jelić, R.; Milovanović, D.; Ćendić Serafinović, M.; Sovrlić, M.; Stojanović, S.; Mrkalić, E. Studies on the interaction between linamarin and human serum albumin, in Proceedings of the 7th International Electronic Conference on Medicinal Chemistry, 1–30 November 2021, MDPI: Basel, Switzerland, M33, <https://dx.doi.org/10.3390/ECMC2021-11383>
8. Mrkalić E, Ćendić Serafinović M, Jelić R, Stojanović S, Sovrlić M. Influence of quercetin on the binding of tigecycline to human serum albumin, 1st International Conference on Chemo and BioInformatics, 26-27 October 2021, Kragujevac, Serbia, M33, <https://doi.org/10.46793/ICCB121.363M>
9. Emina M. Mrkalić, Biljana Šmit, Marina Ćendić Serafinović, Ratimir M. Jelić, Sanja Grgurić-Šipka, Tanja V. Soldatović. Interactions between heterometallic bridged cis-or trans-Pt(II)-Zn(II) complexes and calf thymus DNA, in Proceedings of the 8th International Electronic Conference on Medicinal Chemistry, 1–30 November 2022, MDPI: Basel, Switzerland, M33, <https://doi.org/10.3390/ECMC2022-13203>
10. Marina Ćendić Serafinović, Emina M. Mrkalić, Biljana Šmit, Ratimir M. Jelić, Sanja Grgurić-Šipka, Tanja V. Soldatović. Molecular modeling: The interactions between novel heteronuclear Pt-L-Zn complexes and DNA, in Proceedings of the 8th International Electronic Conference on Medicinal Chemistry, 1–30 November 2022, MDPI: Basel, Switzerland, M33, <https://doi.org/10.3390/ECMC2022-13251>
11. Miroslav Sovrlić, Nevena Prodanović, Ratimir Jelić, Marina Ćendić Serafinović, Emina Mrkalić. Investigation on the interaction between lurasidone and human serum albumin, in Proceedings of the 8th International Electronic Conference on Medicinal Chemistry, 1–30 November 2022, MDPI: Basel, Switzerland, M33, <https://doi.org/10.3390/ECMC2022-13492>
12. Emina Mrkalić, Nevena Prodanović, Ratimir Jelić, Marina Ćendić Serafinović, Miroslav Sovrlić. Interaction between pimethixene and human serum albumin, in Proceedings of the 8th International Electronic Conference on Medicinal Chemistry, 1–30 November 2022, MDPI: Basel, Switzerland, M33, <https://doi.org/10.3390/ECMC2022-13146>

- **Citation number (excluding self-citations) from SCOPUS: 43,**  
[Ćendić, Marina - Author details - Scopus Preview](#)
- **Hirsch index from SCOPUS or WoS citation databases.** H-index = 4
- **Project history: previous and present participation in national and international research grants and other significant projects (project name, funding body, dates, and engagement).**
  1. Title of the project: "**Preclinical tests of bioactive substances**" (III 41010) (2011-now) member and researcher, Ministry of Science and Education, Republic of Serbia
  2. Title of the project: "**Modernisation of Post Graduate Studies in Chemistry and Chemistry Related Programmes, 511044-TEMPUS-1-2010-1-UK-TEMPUS-JPCR**" (2010-2013) financial administrator and one of the coordinators
  3. Title of the project: "**ICT Networking for Overcoming Technical and Social Barriers in Instrumental Analytical Chemistry Education, 573885-EPP-1-2016-1-RS-EPPKA2-CBHE-JP**" (2016-2020) financial administrator and one of the coordinators
  4. Postdoc researcher on a project titled:  
*Reparametrization of dispersion correction functions* in Group of Professor Alexander Sax, Institut für Chemie, Universität Graz, Graz, Österreich.
- **Awards, prizes, etc.**
  1. OEAD Austrian scholarship, 12 months (2018-2019) as postdoctoral research at Institut für Chemie, Universität Graz, Graz, Österreich, Mentor Prof. dr Alexander Sax.
- **Reviewing scientific journals and grants.** Journal of Molecular Structure
- **International scientific collaboration and mobility.**
  1. University of Warwick, England, Computational chemistry group of Professor Robert, J. Deeth, 2012 (three months).
  2. Institut für Chemie, Universität Graz, Graz, Österreich, Mentor Prof. dr Alexander Sax 2018-2019 (one year).
- **Skills and other facts relevant to the Project:** effective communication, scheduling and time management, leadership, technical expertise, critical thinking, and problem solving.
- **Link to the database of researchers if available (e.g., Google Scholar, ORCID, etc.).**
  1. ORCID id <https://orcid.org/0000-0003-3427-0079>
  2. ResearchGate: [Marina Cendic \(researchgate.net\)](#)