


LIČNE INFORMACIJE

Marija Ristić



 Prirodno-matematički fakultet, Univerzitet u Kragujevcu, Srbija
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Pol Ženski | Datum Rođenja 15/09/1984 | Nacionalnost Srpska

RADNO ISKUSTVO

(2020- trenutno)

Naučni saradnik

Institut za hemiju, Prirodno-matematički fakultet, University u Kragujevcu, Srbija
<https://www.pmf.kg.ac.rs/?id=342>

(2013-2019)

Istraživač saradnik

Institut za hemiju, Prirodno-matematički fakultet, University u Kragujevcu, Srbija
<https://www.pmf.kg.ac.rs/?id=342>

(2011-2013)

Istraživač pripravnik

Institut za hemiju, Prirodno-matematički fakultet, University u Kragujevcu, Srbija
<https://www.pmf.kg.ac.rs/?id=342>

Istraživački rad:

Sinteza i karakterizacija kompleksa rodijuma(III), hroma(III) i nikla(II) sa ligandima poliaminopolikarboksilatnog tipa, strukturna i kompjutaciona istraživanja, ispitivanje biološke aktivnosti liganada i kompleksa rodijuma(III). Sinteza kompleksa rodijuma(II) i rutenijum(II)-*p*-cimena sa heterocikličnim ligandima imidazolskog, tiazolskog i izotiazolskog tipa, strukturna i kompjutaciona istraživanja, karakterizacija sintetisanih kompleksa primenom X-Ray analize, NMR, UV-Vis i IR spektara, ispitivanje biološke aktivnosti liganada i kompleksa, kao i njihovih interakcija sa molekulima DNK i HSA. Mehanohemijske sinteze.

Nastavni rad:

Istraživačko-obrazovno izvođenje vežbi sa studentima prve i treće godine hemije, prve i treće godine biologije i ekologije i master studentima hemije.

Doktorsko i postdoktorsko usavršavanje u inostranstvu:

Institut za hemiju, Univerzitet u Hajdelbergu, Hajdelber, Nemačka, profesor Piter Komba (Peter Comba), 1. Oktobar 2013 – 1. April 2014.
 Metalurško-tehnološki fakultet, Univerzitet Crne Gore, Podgorica, Crna Gora, doc. Dr Milica Kosović Perutović, 1. April 2024 – 1. Oktobar 2024.

Članstvo u hemijskim organizacijama: Član Srpskog Hemijskog Društva

Učešće u organizacionim i naučnim odborima naučnih skupova:

XXVII Konferencija Srpskog Kristalografskog Društva, Prirodno-matematički fakultet, Univerzitet u Kragujevcu, Kragujevac, 16 i 17. Septembar 2021. godine – član Organizacionog odbora.
 Druga Međunarodna Konferencija o hemoinformatici i bioinformatici (ICCBIKG), Institut za Informacione tehnologije, Univerzitet u Kragujevcu, 28. i 29. Septembar 2023. godine - član Organizacionog odbora.

OBRAZOVANJE

- (2010-2019) **Doktorske akademske studije hemije – Neorganska hemija**
Institut za hemiju, Prirodno-matematički fakultet, University u Kragujevcu, Srbija
<https://www.pmf.kg.ac.rs/?id=342>
Naslov disertacije: "Sinteza i biološka aktivnost Rh(III) kompleksa sa ligandima poliaminopolikarboksilatnog tipa"
- (2004-2010) **Osnovne akademske studije hemije**
Institut za hemiju, Prirodno-matematički fakultet, University u Kragujevcu, Srbija
<https://www.pmf.kg.ac.rs/?id=342>

LIČNE VEŠTINE

- Maternji jezik Srpski
Drugi jezici Engleski, ruski
- Komunikacione sposobnosti • Dobre komunikacijske veštine stečene kroz saradnju sa kolegama i kroz rad sa studentima na skoro svim nivoima studija (osnovne/master studije).
- Kompjuterske veštine • Odlično vladanje Microsoft Office™ alatima
• Odlično vladanje hemijskim softverima

DODATNE INFORMACIJE

- Projekti:
- (2011-2019) Učesnik projekta pod nazivom "Preklinička ispitivanja bioaktivnih supstanci" Br. III 41010, finansiran od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije
 - (2016-2019) Učesnik ERASMUS + projekta ("NetChem :: ICT Networking for Overcoming Technical and Social Barriers in Instrumental Analytical Chemistry education")
 - (2010-2013) Učesnik TEMPUS projekta: "Modernisation of Post Graduate Studies in Chemistry and Chemistry Related Programmes, 511044-TEMPUS-1-2010-1-UK-TEMPUS-JPCR"
- Radovi:
- Nenad Joksimović, Jelena Petronijević, Dušan Ćocić, **Marija Ristić**, Kristina Mihajlović, Nenad Janković, Emilija Milović, Olivera Klisurić, Nevena Petrović, Marijana Kosanić
Synthesis, characterization, and biological evaluation of novel cobalt(II) complexes with β -diketonates: crystal structure determination, BSA binding properties and molecular docking study.
Journal of Biological Inorganic Chemistry (2024), vol. 29, 541–553; DOI: 10.1007/s00775-024-02069-7. ISSN: 1432-1327; **M21**.
 - Marina Mitrović, Maja B. Djukić, Milena Vukić, Ivana Nikolić, Marko D. Radovanović, Jovan Luković, Ignjat P. Filipović, Sanja Matić, Tijana Marković, Olivera R. Klisurić, Suzana Popović, Zoran D. Matović, **Marija S. Ristić**
Search for new biologically active compounds: *In vitro* studies of antitumor and antimicrobial activity of dirhodium(II,II) paddlewheel complexes.
Dalton Transactions (2024), vol. 53, 9330-9349; DOI: 10.1039/D4DT01082E. ISSN: 1477-9226; **M21**.
 - Milena D. Vukić, Jovica Branković, **Marija S. Ristić**
GC, GC/MS analysis, and biological effects of *Citrus aurantium amara* essential oil.
Acta Horticulturae et Regiotecturae (2023), vol. 26, 21-27; DOI: 10.2478/ahr-2023-0004. ISSN: 1335-2563; **M24**.
 - Marko D. Radovanović, **Marija S. Ristić**, Matija Zlatar, Frank W. Heinemann, Zoran D. Matović
New rhodium(III)–ED3AP complex: Crystal structure, characterization and computational chemistry.
Journal of the Serbian Chemical Society (2022), vol. 87(5), 561–573. DOI: 10.2298/JSC211230003R; ISSN: 0352-5139; **M23**.

- Maja B. Đukić, **Marija S. Jeremić**, Ignjat P. Filipović, Olivera R. Klisurić, Vesna V. Kojić, Dimitar S. Jakimov, Ratomir M. Jelić, Valentina Onnis, Zoran D. Matović
Synthesis, characterization, HSA/DNA interactions and antitumor activity of new $[\text{Ru}(\eta^6\text{-}p\text{-cymene})\text{Cl}_2(\text{L})]$ complexes.
Journal of Inorganic Biochemistry (2020), vol. 213, Article number 111256. DOI: 10.1016/j.jinorgbio.2020.111256; ISSN: 0162-0134; **M21**.
 - Maja B. Djukić, **Marija S. Jeremić**, Ignjat P. Filipović, Olivera R. Klisurić, Ratomir M. Jelić, Suzana Popović, Sanja Matić, Valentina Onnis, Zoran D. Matović
Ruthenium(II) complexes of isothiazole ligands: Crystal structure, HSA/DNA interactions, cytotoxic activity and molecular docking simulations.
Chemistry Select (2020) vol. 5, 11489-11502; DOI: 10.1002/slct.202002670; ISSN: 2365-6549; **M23**.
 - **Marija S. Jeremić**, Marko D. Radovanović, Olivera R. Klisurić, Svetlana K. Belošević, Zoran D. Matović
Synthesis and characterization of the *trans*(O_6) isomer Ni(II) complex containing symmetrical edta-type ligand with mixed carboxylate and diamine rings: Quantum-mechanical evaluation of different isomers.
Inorganica Chimica Acta (2019), vol. 495, Article number 118954. DOI: 10.1016/j.ica.2019.118954; ISSN: 0020-1693; **M22**.
 - **Marija S. Jeremić**, Marko D. Radovanović, Frank W. Heinemann, Miorad M. Vasojević, Zoran D. Matović
Structural and theoretical investigations of the Rh(III) and Co(III) complexes containing symmetrical edta-type ligands with mixed carboxylate and diamine rings: Quantum-mechanical/NBO insight into stability of geometrical isomers.
Polyhedron (2019), vol. 169, 89-101. DOI: 10.1016/j.poly.2019.04.053; ISSN: 0277-5387; **M22**.
 - Maja Djukić, **Marija S. Jeremić**, Ratomir Jelić, Olivera Klisurić, Vesna Kojić, Dimitar Jakimov, Predrag Djurdjević, Zoran D. Matović
Further insights into ruthenium(II) piano-stool complexes with *N*-alkyl imidazoles.
Inorganica Chimica Acta (2018), vol. 483, 359-370. DOI: 10.1016/j.ica.2018.08.031; ISSN: 0020-1693; **M22**.
 - **Marija S. Jeremić**, Marko D. Radovanović, Franco Bisceglie, Vesna V. Kojić, Ratomir Jelić, Zoran D. Matović
Rhodium(III) in a cage of the 1,3-propanediamine-*N,N,N'*-triacetate chelate: X-ray structure, solution equilibria, computational study and biological behavior.
Polyhedron (2018), vol. 156, 19-30. DOI: 10.1016/j.poly.2018.08.075; ISSN: 0277-5387; **M22**.
 - **Marija S. Jeremić**, Hubert Wadepohl, Vesna V. Kojić, Dimitar S. Jakimov, Ratomir Jelić, Suzana Popović, Zoran D. Matović, Peter Comba
Synthesis, structural analysis, solution equilibria and biological activity of rhodium(III) complexes with a quinquedentate polyaminopolycarboxylate.
RSC Advances (2017) vol. 7, 5282-5296. DOI: 10.1039/c6ra26199j; ISSN: 2046-2069; **M21**.
 - Svetlana Belošević, Miorad M. Vasojević, **Marija S. Jeremić**, Auke Meetsma, Zoran D. Matović
Preparation, configurational and DFT-NBO analysis of nickel(II) complexes with edta-type ligands containing six-membered backbone ring: Crystal structure of $[\text{Ni}(\text{H}_2\text{O})_6][\text{Ni}(1,3\text{-pdta})]\cdot 2\text{H}_2\text{O}$.
Journal of Coordination Chemistry (2013), vol. 66, 1730-1745. DOI: 10.1080/00958972.2013.789104; ISSN: 0095-8972; **M22**.
 - Zoran D. Matović, **Marija S. Jeremić**, Ratomir M. Jelić, Matija Zlatar, Ivan Ž. Jakovljević
Configurational, LFDFT and NBO analysis of chromium(III) complexes of edta-type ligands.
Polyhedron (2013), vol. 55, 131-143. DOI: 10.1016/j.poly.2013.02.079; ISSN: 0277-5387; **M22**
- Konferencije:
- M. Kosović Perutović, S. Kovačević, **M. Ristić**, J. Mišurović, Z. Leka
Mechanochemical Synthesis of Cu(II) dithiocarbamate complex: Advantages Over Traditional Solution-Based Methods.
27th Congress of the Society of Chemists and Technologists of Macedonia (SCTM), Ohrid, N. Macedonia 2024, p. 107. ISBN: 978-9989-760-20-4. **M34**

- S. Kovačević, **M. Ristić**, J. Mišurović, Z. Leka, M. Kosović Perutović
Efficient Solvent-Free Synthesis of Ni(II)-Dithiocarbamate Complexes using Mechanochemistry.
27th Congress of the Society of Chemists and Technologists of Macedonia (SCTM), Ohrid, N. Macedonia 2024, p. 108. ISBN: 978-9989-760-20-4. **M34**
- **M. S. Ristić**, M. B. Djukić, M. Kosović Perutović
DNA Interactions of Palladium (II) Complex Containing a Thioamide-Type Ligand.
27th Congress of the Society of Chemists and Technologists of Macedonia (SCTM), Ohrid, N. Macedonia 2024, p. 157. ISBN: 978-9989-760-20-4. **M34**
- S. Kovačević, M. Kosović Perutović, **M. Ristić**, J. Mišurović, Z. Leka
Mechanochemical Synthesis of Ammonium-Iminodiacetato-Dithiocarbamate: An Environmentally Friendly Approach.
25th YUCOMAT 2024 & XIII WRTCS, Herceg Novi, Montenegro 2024, p. 53. ISBN: 978-86-919111-9-5. **M34**
- M. B. Đukić, J. M. Petronijević, **M.S. Ristić**, S. B. Novaković
Synthesis and crystal structure of [Ru-p-cymene-L] complex.
XXIX Konferencija SKD - 29th Conference of the Serbian Crystallographic Society, Ruma 2024, Serbia, p. 64-65. ISBN: 978-86-912959-7-4. **M64**
- S. K. Belošević, J. S. Belošević, M. B. Đukić, **M. S. Ristić**, D. Lj. Stojković
Pollutant particles in the air on the territory of Kosovska Mitrovica.
3th International Conference on Advances in Science and Technology, COAST 2024, Herceg Novi, Montenegro 2024. p. 1058-1063. ISBN: 978-9940-611-07-1. **M33**
- M. B. Đukić, **M. S. Ristić**, D. Lj. Stojković, I. P. Filipović, M. D. Radovanović, I. Ž. Jakovljević, Z. D. Matović
Synthesis, characterization and HSA interactions of new [PdL₂CL₂] complex.
3th International Conference on Advances in Science and Technology, COAST 2024, Herceg Novi, Montenegro 2024. p. 384-389. ISBN: 978-9940-611-07-1. **M33**
- M. B. Đukić, **M. S. Ristić**, M. S. Ćendić Serafinović, I. Ž. Jakovljević, D. Lj. Stojković
Synthesis and characterization of new Pd(II) complex and its HSA binding study.
4th International Conference on Innovative Academic Studies - ICIAS 2024, March 12-13, 2024, Konya, Turkey, p. 144. ISBN 978-625-6530-92-8. **M34**
- I. Jakovljevic, Lj. Joksovic, N. Mihailovic, **M. Jeremic**
Influence of Montelukast on speciation of essential metal ions in blood plasma.
The Second Serbian Molecular Medicine Congress, Foča, October 6-8, 2023, BiH, p. 34-35. ISBN 978-86-904000-2-7. **M64**
- S. Belošević, M. Đukić, **M. Ristić**, Lj. Milentijević, S. Jovanović, K. Mačenovski Gagnon, J. Danilović
Analysis of heavy metals in the soil in the Ibar river valley in the district of Kosovska Mitrovica.
2nd International Conference on Chemo and Bioinformatics, September 28-29, 2023. Kragujevac, Serbia, p. 225-228. ISBN 978-86-82172-02-4. **M33**
- S. Belošević, M. Đukić, **M. Ristić**, Lj. Milentijević, S. Jovanović, K. Mačenovski Gagnon, J. Danilović
Water quality analysis in the district of Kosovska Mitrovica.
2nd International Conference on Chemo and Bioinformatics, September 28-29, 2023. Kragujevac, Serbia, p. 229-231. ISBN 978-86-82172-02-4. **M33**
- M. Radovanović, I. Filipović, M. Đukić, **M. Ristić**, I. Jakovljević, Z.D. Matović
Molecular docking study of ruthenium-p-cymene complexes with isothiazole derivatives as SARS-CoV-2 main protease inhibitors.
2nd International Conference on Chemo and Bioinformatics, September 28-29, 2023. Kragujevac, Serbia, p. 387-390. ISBN 978-86-82172-02-4. **M33**
- D. Stojković, M. Đukić, **M. Ristić**, M. Ćendić Serafinović, S. Belošević, E. Mrkalić, I. Jakovljević
Synthesis, characterization and HSA interactions of a new piano-stool ruthenium(II) complex containing a thioamide-type ligand.

2nd International Conference on Chemo and Bioinformatics, September 28-29, 2023. Kragujevac, Serbia, p. 507-510. ISBN 978-86-82172-02-4. **M33**

- M. D. Radovanović, I. Filipović, M. Đukić, **M. Ristić**, M. Zlatar, Z.D. Matović
Relativistic DFT calculation and their effect on the accuracy of results.
2nd International Conference on Chemo and Bioinformatics, September 28-29, 2023. Kragujevac, Serbia, p. 653-656. ISBN 978-86-82172-02-4. **M33**
- I. P. Filipović, M. D. Radovanović, M. B. Đukić, O. R. Klisurić, D. Lj. Stojković, **M. S. Ristić**, Z. D. Matović
Synthesis and crystal structure of $[Rh_2(CH_3COO)_4(N-Bulm)]$ complex.
XXVIII Konferencija SKD - 28th Conference of the Serbian Crystallographic Society, Čačak 2023, Serbia, p. 32-33. ISBN: 978-86-912959-6-7. **M64**
- **M. S. Ristić**, M. B. Djukić, I. P. Filipović, M. D. Radovanović, Z. D. Matović, Synthesis, characterization and HSA/DNA interactions of new $[Rh_2(CH_3COO)_4L_2]$ complex.
2nd International Conference on advances in science and technology, COAST 2023, Herceg Novi, Montenegro 2023. p. 359-369. ISBN: 978-9940-611-05-7. **M33**
- M. B. Đukić, **M. S. Ristić**, I. P. Filipović, M. D. Radovanović
Synthesis and characterization of new $[Ru(\eta^6-p\text{-cymene})Cl_2(L)]$ complex.
8. Konferencija mladih hemicara Srbije - 8th Conference of Young Chemists of Serbia, Belgrade 2022, Serbia, p. 74. ISBN: 978-86-7132-080-1. **M64**
- I. P. Filipović, M. D. Radovanović, M. B. Đukić, **M. S. Ristić**
Molecular docking of porphyrin-like complexes to SARS-CoV-2 main protease
8. Konferencija mladih hemicara Srbije - 8th Conference of Young Chemists of Serbia, Belgrade 2022, Serbia, p. 140. ISBN: 978-86-7132-080-1. **M64**
- M. Radovanović, **M. Ristić**, M. Đukić, I. Filipović, F. W. Heinemann, Z. Matović
Synthesis and crystal structure of *cis*-equatorial- $Na[Rh(Hed3ap)Cl] \cdot 2.22H_2O$ complex.
XXVII Konferencija SKD - 27th Conference of the Serbian Crystallographic Society, Kragujevac 2021, Serbia, p. 50-51. ISBN: 978-86-6009-085-2. **M64**
- **M. Jeremić**, Z. Matović, E. Mrkalić, P. Comba, H. Wadepohl
Synthesis and crystal structure of *cis*-equatorial-aquaethylenediamine-*N,N,N'*-triacetatorhodium(III) monohydrate, $[Rh(ed3a)H_2O] \cdot xH_2O$
XXII Konferencija SKD – 22nd Conference of the Serbian Crystallographic Society, 2015, Smederevo, Serbia, p. 52-53. ISBN: 978-86-912959-2-9. **M64**
- **M. S. Jeremić**, P. Comba, H. Wadepohl
Synthesis and crystal structure of *cis*-equatorial-sodium(ethylenediamine-*N,N,N'*-triacetato)chloridorhodate(III) monohydrate, $Na[RhCl(ed3a)] \cdot H_2O$
XXI Konferencija SKD - 21st Conference of the Serbian Crystallographic Society, 2014, Užice, Serbia, p. 76-77. ISBN: 978-86-912959-1-2. **M64**
- M. Ćendić, M. B. Đukić, E. M. Mrkalić, **M. S. Jeremić**, Z. D. Matović
Management of municipal and industrial waste in the city of Kragujevac.
The 6th symposium of chemistry and environmental protection – ENVIROCHEM 2013, Vršac, Serbia, p.154-155. ISBN: 978-86-7132-052-8. **M34**