

PERSONAL INFORMATION



Đorđe Petrović

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Sex Male | Date of birth 02/08/1992 | Nationality Serbian

WORK EXPERIENCE

2019 – 2022 Junior research assistant, Faculty of Science, University of Kragujevac (Scholar of the Ministry of Education, Science and Technological Development)

2022 – Research assistant, Faculty of Science, University of Kragujevac

Research work Synthesis of propylenediamine derivatives with some amino acids and synthesis of the corresponding palladium(II) and platinum(II) complexes with the mentioned ligands. Characterization of synthesized ligands and complexes using NMR and IR spectroscopy, as well as X-Ray analysis wherever possible. Investigation of antitumor and antimicrobial activity of newly synthesized ligands and complexes, as well as the interaction of complexes with DNA and HSA molecules.

Pedagogical work Chemistry (Basic academic studies, the Study Group Physics, a compulsory course)
Inorganic Chemistry 1 (Basic academic studies, Study Group Chemistry, a compulsory course)
Inorganic Industrial Contaminants (Basic academic studies, the Study Group Chemistry, a compulsory course)
Bioinorganic chemistry (Master academic studies, Study Group, a compulsory subject)

Education Primary school “Radoje Domanović“ Kragujevac (1999-2007)
High school “Prva kragujevačka gimnazija” Kragujevac (2007-2011)
Graduated chemist for research and development, 2017. Faculty of Science, University of Kragujevac, Study Group: Chemist, Research and Development (2011-2017)
Master Chemist for Research and Development, 2018. Faculty of Science, University of Kragujevac, Study Group: Chemist, Research and Development (2017-2018)
PhD in Inorganic chemistry, Faculty of Science, University of Kragujevac (2018 -)

Personal skills English language – read, write and conversation
Excellent computer skills
Driving licence B

Communication skills Excellent communications skills

- Organisational / managerial skills organisational skills
Member of organisation 27th conference of the Serbian crystallographic society Kragujevac, September 16th-17th 2021, Serbia
- Digital competence Excellent command of office suite (word processor, spread sheet, presentation software, Microsoft Office™, Adobe Reader...)
- References
Papers
- Đorđe S. Petrović**, Sandra S. Jovičić Milić, Maja B. Đukić, Ivana D. Radojević, Milena M. Jurišević, Nevena M. Gajović, Anđela Petrović, Nebojša N. Arsenijević, Ivan P. Jovanović, Edina Avdović, Danijela Lj. Stojković, Verica V. Jevtić. Synthesis, characterization, HSA binding, molecular docking, cytotoxicity study, and antimicrobial activity of new palladium(II) complexes with propylenediamine derivatives of phenylalanine. *Journal of Inorganic Biochemistry* 246 (2023); DOI:10.1016/j.jinorgbio.2023.112283; **M21**,
- Đorđe S. Petrović**, Sandra S. Jovičić Milić, Maja B. Đukić, Ivana D. Radojević, Ratomir M. Jelić, Milena M. Jurišević, Gordana P. Radić, Nevena M. Gajović, Nebojša N. Arsenijević, Ivan P. Jovanović, Nenad V. Marković, Danijela Lj. Stojković, Verica V. Jevtić. Synthesis, characterization, HSA/DNA binding, cytotoxicity study, and antimicrobial activity of new palladium(II) complexes with some esters of (S,S)-propylenediamine-N,N'-di-2-(3-methyl)butanoic acid. *Inorganica Chimica Acta* (2021) vol 528, 120601; DOI: 10.1016/j.ica.2021.120601; ISSN: 0020-1693; **M22**,
- Jovičić Milić SS, Jevtić VV, Stojković DLj, **Petrović ĐS**, Avdović EH, Marković ZS, Radojević ID, Čomić Lj, Mladenović VS. Synthesis, characterization and antimicrobial activity of palladium(II) complexes with *O,O'*-dialkyl esters of (S,S)-ethylenediamine-N,N'-di-(3,3'-1H-indol-3yl)-propionic acid. *Inorganica Chimica Acta* 510 (2020) 119743; DOI:10.1016/j.ica.2020.119743; IF = 2,264,
- Sandra S. Jovičić Milić, Verica V. Jevtić, Edina H. Avdović, Biljana Petrović, Milica Međedović, **Đorđe S. Petrović**, Marija Milovanović, Jelena Milovanović, Nebojša Arsenijević, Danijela Lj. Stojković, Gordana P. Radić, Miloš J. Stanković. DNA binding, molecular docking study and antitumor activity of [PdCl₂(R₂-(S,S)-eddtrp)] complexes. *Monatshefte für Chemie - Chemical Monthly* 152(8) (2021) 951–958; DOI: 10.1007/s00706-021-02820-9; ISSN: 00269247, 14344475; IF = 1,451, **M23**;
- D. Simic, M. Zaric, I. Nikolic, R. Zivkovic Zaric, P. Canovic, A. Kocovic, I. Radojevic, I. Rakovic, S. Jovicic Milic, **Dj. Petrovic**, D. Stojkovic, N. Vukovic, M. Kaániová, M. Vukic and V. Jevtic, Newly synthesized palladium(II) complexes with aminothiazole derivatives: In vitro study of antimicrobial activity and antitumor activity on human prostate cancer cell line, *Dalton Transactions*, (2021), DOI: 10.1039/D1DT03364F, **M21**;
- Sandra S. Jovičić Milić, Verica V. Jevtić, Snežana R. Radisavljević, Biljana V. Petrović, Ivana D. Radojević, Ivana R. Raković, **Đorđe S. Petrović**, Danijela Lj. Stojković, Milena Jurišević, Nevena Gajović, Anđela Petrović, Nebojša Arsenijević, Ivan Jovanović, Olivera R. Klisurić, Nenad L.Vuković, Milena Vukić, Miroslava Kačániová, Synthesis, characterization, DNA interactions and biological activity of new palladium(II) complexes with some derivatives of 2-aminothiazoles, *Journal of Inorganic Biochemistry* 233 (2022) 111587; DOI: 10.1016/j.jinorgbio.2022.111857; **M21**

Poster presentations

Đ. Petrović, D. Stojković, S. Jovičić, M. Kasalović,
Synthesis and characterization butyl ester of (*S,S*)-ethylenediamine-*N,N'*-di-(2,2'-
-di(4-hydroxy-benzil))-acetic acid and corresponding palladium(II)-complex,
Sixth Conference of Young Chemists of Serbia, Belgrade 2018, 61; ISBN: 978-86-7132-072-
6, **M64**;

D. Stojković, V. Jevtić, **Đ. Petrović**, S. Jovičić Milić, N. Vuković, M. Vukić, M. Đukić, O.
Klisurić, Synthesis and crystal structure of 2-acetylbutyrolactone with methyl ester of
L-tryptophane, XXVII Conference of the Serbian Crystallographic Society, Kragujevac
(2021), 28; ISBN: 978-86-6009-085-2, **M64**;

Đ. Petrović, V. Jevtić, S. Jovičić Milić, D. Stojković, O. Klisurić
Synthesis and crystal structure of propylenediamine-*N,N'*-di-2-(3-methyl)-butanoate acid,
XXVII Conference of the Serbian Crystallographic Society, Kragujevac (2021), 30; ISBN:
978-86-6009-085-2, **M64**;

S. Jovičić Milić, V. Jevtić, **Đ. Petrović**, D. Stojković, N. Vuković, M. Vukić,
O. Klisurić, M. Kačanićová
Synthesis and crystal structure complex of palladium(II) ion with 2-amino-6-
-chlorobenzotiazole, XXVII Conference of the Serbian Crystallographic Society, Kragujevac
(2021), 66; ISBN: 978-86-6009-085-2, **M64**;

S. S. Jovičić Milić, E. H. Avdović, V. V. Jevtić, **Đ. S. Petrović**, D. Dimić, J. M. Dimitrić
Marković, I. Potočňák, S. R. Trifunović, *Synthesis and crystal structure of new octapamin
derivative of coumarin*, XXVI Conference of the Serbian crystallographic society, Silver Lake
2019, p. 44, ISBN: 978-86-912959-5-0 (**M64**).

Danijela Stojković, Verica Jevtić, Maja Đukić, **Đorđe Petrović**, Sandra Jovičić Milić,
Marijana Kasalović, Vitamin C content in rosehip extracts, XXVII Conference on
Biotechnology, Čačak, Srbija, 2022, 541;
ISBN: 978-86-87611-86-3, **M63**;

Danijela Lj. Stojković, Verica V. Jevtić, **Đorđe S. Petrović**, Sandra S. Jovičić Milić, Nenad
L. Vuković, Milena D. Vukić, Bojan Stojanović, Synthesis and characterization of
platinum(II/IV) complexes with 2-amino-5-methyl-4-phenylthiazole, First International
Conference on Chemo and Bioinformatics (ICCBKIG 2021) Kragujevac, Serbia, 2021, 350-
353; ISBN: 978-86-82172-01-7, **M33**;

Verica Jevtic, **Djordje Petrovic**, Sandra Jovicic Milic, Danijela Stojkovic, Maja Djukic,
Synthesis, characterization, HAS/DNA binding of new ligand *S,S*-propylene diamine-*N,N'*-di-
(2,2'-benzyl) acetic acid and there corresponding palladium(II) complex, 11th International
Conference on Advances in science and technology (COAST 2022), Herceg Novi,
Montenegro 2022, p. 54; ISBN: 978-9940-611-03-3 **M33**;

Sandra S. Jovičić Milić, Verica V. Jevtić, Nenad L. Vuković, Miroslava Kačanićová, Srećko
R. Trifunović, Edina H. Avdović, **Đorđe S. Petrović**, Marijana P. Kasalović, Gordana P.
Radić, *Synthesis and characterization of new palladium(II) complex with 2-amino-5-methyl-4-
-phenylthiazole*, 13th Students' Congress of SCTM, Skopje, Republic of N. Macedonia, 2019,
ISBN: 978-9989-760-17-4 (**M34**).

Đ. S. Petrović, G. P. Radić, D. LJ. Stojković, S. R. Trifunović, E. H. Avdović, S. S. Jovičić,
*Synthesis and characterization of palladium(II)-complexes with some O,O'-dialkyl esters of
1,3--propylenediamine-*N,N'*-di-2-(3-methyl)-butanoic acid*, XXI Mendeleev Congress on
General and Applied Chemistry, Saint Perersburg, 2019, p. 213, ISBN-978-5-6043248-4-4
(**M34**).

S. R. Trifunović, V. V. Jevtić, S. S. Jovičić, L. N. Vuković, **Đ. S. Petrović**, Miroslava
Kačanićová, *Synthesis and characterization of new palladium(II)-complexes with some
thiazoles*, XXI Mendeleev Congress on General and Applied Chemistry, Saint Perersburg,
2019, p. 213, ISBN-978-5-6043248-4-4 (**M34**).

Project On the project of the Ministry of Education, Science and Technology: „Synthesis, modeling, physico-chemical and biological properties of organic compounds of metal complexes” (OI 172016) (2019).

MEMBERSHIPS Member of Serbian Chemical Society
Serbian Crystallographic Society.