



PERSONAL INFORMATION



Angelina Caković (maiden Petrović)

 Dimitrija Tucovića 30b-9, 34000, Kragujevac, Serbia

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 angelina.petrovic@pmf.kg.ac.rs

Sex Female | Date of birth 03/10/1993 | Nationality Serbian

WORK EXPERIENCE

12/2022–Present

Junior Researcher

University of Kragujevac, Faculty of Science, Department of Chemistry.
Radoja Domanovića 12, 34000 Kragujevac (Serbia)

01/2019–11/2022

Research trainee

University of Kragujevac, Faculty of Science, Department of Chemistry.
Radoja Domanovića 12, 34000 Kragujevac (Serbia)

Inorganic chemistry - Synthesis of new transition metal complexes, characterization and kinetic testing with small biomolecules (such as guanosine-5'-monophosphate, glutathione, L-methionine). Investigation of the interaction of newly synthesized complexes with DNA and serum albumin, using UV-vis spectroscopy, fluorimetry, and viscosity measurement. Examination of the substitution reactions of newly synthesized complexes in ionic liquids. Cytotoxicity determination of the newly synthesized complexes.

01/2019–Present

Work on the project of the Ministry of Education, Science and Technological Development No. OI 172011 from 2019-2020 ("Examination of the reaction mechanism of the complex of transitional metals with biologically significant molecules", project manager: Prof. Dr Zorica Bugarčić), and from 2020. is employed under the contract of the ministry (number: 451-03-2824/2019-14/2 , 451-03-1766/2020-14/1, 451-03-1378/2021-14/14, 451-03-47/2023-01/200122).

EDUCATION AND TRAINING

2018–Present

Chemistry PhD student

University of Kragujevac, Faculty of Science, Department of Chemistry
Radoja Domanovica 12, 34000 Kragujevac (Serbia)
www.pmf.kg.ac.rs

2017–2018

Master of Science degree

University of Kragujevac, Faculty of Science, Department of Chemistry
Radoja Domanovica 12, 34000 Kragujevac (Serbia)
www.pmf.kg.ac.rs

2012–2017

Bachelor degree in Chemistry

University of Kragujevac, Faculty of Science, Department of Chemistry
Radoja Domanovica 12, 34000 Kragujevac (Serbia)
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PERSONAL SKILLS

Mother tongue(s) Serbian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills communicative, teamcommunicative, team-worker, friendly, sociable, responsible, reliable, wellorganized

Driving licence B

ADDITIONAL INFORMATION

Business skills

Knowledge of general techniques of synthesis, separation, isolation, and purification of transition metal complexes

Determination of structure and spectroscopic characterization of complex compounds (UV -VIS, GC-MS, IR, NMR)

Use of chemistry software (ChemOffice, MestReNova, Origin)

AWARDS

Literature Search (SCI Finder, Cobson)

Award for best student in master's degree

Diploma for the best-rated assistant at the Department of Chemistry, Faculty of Science, University of Kragujevac

Scholarship

Scholarships of the Ministry of Education, Science and Technological Development of the Republic of Serbia during Bachelor Academic Studies.

Winner of the DAAD scholarship for 2020. Year. (not used due to COVID-19)

Publications

Angelina Caković, Dušan Čočić, Marko Živanović, Nenad Janković, Nevena Milivojević, Marija Delibašić, Marina Kostić, Ivana Radojević, Mirjana Grujović, Katarina G. Marković, Olivera R. Klisurić, Milan Vraneš, Jovana Bogojeski

Enhancing Bioactivity of N,N,N-Chelating Rhodium(III) Complexes with Ionic Liquids: Toward Targeted Cancer Therapy, *Journal of Medicinal Chemistry* (2024) **67**, 13349-13362, **M21a, IF = 6,8**

Angelina Z. Petrović, Dušan C. Čočić, Dirk Bockfeld, Marko Živanović, Nevena Milivojević, Katarina Virijević, Nenad Janković, Andreas Scheurer, Milan Vraneš, Jovana V. Bogojeski
Biological activity of bis(pyrazolopyridine) and terpyridine Os(II) complexes in the presence of biocompatible ionic liquids, *Inorganic Chemistry Frontiers* (2021) **8**, 2749-2770, **M21a, IF = 6,57**

Angelina Petrović, Milan M. Milutinović, Edward T. Petri, Marko Živanović, Nevena Milivojević, Ralph Puchta, Andreas Scheurer, Jana Korzekwa, Olivera R. Klisurić, Jovana Bogojeski
Synthesis of Camphor-derived Bis-pyrazolopyridine Rhodium(III) Complexes: Structure–Reactivity Relationships and Biological Activity, *Inorganic Chemistry* (2019) **58**, 307–319, **M21a, IF = 4,85**

Angelina Petrović, Marko Živanović, Ralph Puchta, Dušan Čočić, Andreas Scheurer, Nevena Milivojević, Jovana Bogojeski

Experimental and quantum chemical study on the DNA/protein binding and the biological activity of a rhodium(III) complex with 1,2,4-triazole as an inert ligand, *Dalton Transaction* (2020), **49**, 9070-9085, **M21, IF = 4,39**

Aleksandar M. Mijatovic, Angelina Z. Cakovic, Aleksandar Dj. Lolic, Olivera R. Klisuric, Marko N. Zivanovic, Dragana S. Seklic, Snezana Sretenovic, Marija A. Ilic, Jovana V. Bogojeski

Structure, interaction with biomolecules, and cytotoxicity of copper (II) complexes chelating some Schiff base ligands, *Applied Organometallic Chemistry* (2023), **37**, e7253. **M21, IF = 3,7**

Jelena D. Dimitrijević, Natalija Solovjova, Andriana M. Bukonjić, Dušan Lj. Tomović, Mirjana Milinkovic, Angelina Caković, Jovana Bogojeski, Zoran R. Ratković, Goran V. Janjić, Aleksandra A. Rakić, Nebojsa N. Arsenijević, Marija Z. Milovanovic, Jelena Z. Milovanovic, Gordana P. Radić, Verica V. Jevtić

Docking Studies, Cytotoxicity Evaluation and Interactions of Binuclear Copper(II) Complexes with S-Isoalkyl Derivatives of Thiosalicylic Acid with Some Relevant Biomolecules, *International Journal Of Molecular Sciences* (2023), **24**, 12504. **M21, IF = 4,9**

Ivana Raković, Jovana Bogojeski, Katarina Mladenović, Angelina Petrović, Vera Divac, Kristina Mihailović, Biljana Popovska Jovčić, Marina Kostić, Predrag Canović, Nevena Milivojević, Marko Zivanović, Ivana Radojević

Synthesis, Characterization and Biological Studies of Organoselenium trans-Palladium(II) Complexes, *Medicinal Chemistry* (2021) **17**, 1007-1022, **M22**

Marijana P. Kasalović, Angelina Petrović, Jelena M. Živković, Linus Kuckling, Verica V. Jevtić, Jovana Bogojeski, Zorica B. Leka, Srećko R. Trifunović, Nebojša Đ. Pantelić

Evaluation of DNA/BSA interactions and DFT calculations of gold(III), zinc(II) and palladium(II)

complexes with triammonium N-dithiocarboxyiminodiacetate, *Journal of Molecular Structure* (2021) **1229**, 129622, **M22**

Aleksandar M. Mijatovic, Angelina Z. Cakovic, Aleksandar Dj. Lolic, Snezana Sretenovic, Marko N. Zivanovic, Dragana S. Seklic, Jovana V. Bogojeski, Biljana V. Petrovic, DNA/BSA interactions and cytotoxic studies of tetradentate N,N,O,O-Schiff base copper(II) complexes, *Journal of The Serbian Chemical Society* (2023), **88**, 1307-1317. **M23**
Milan M. Milutinović, Angelina Z. Caković, Dušan Čočić, Eduard Rais, Roland Schoch, Bojana Simović Marković, Nebojša Arsenijević, Vladislav Volarević, Snezana Jovanović-Stević, Jovana V. Bogojeski, René Wilhelm

Unique enantiopure camphor-based neutral arene–ruthenium(II) complexes: DNA/BSA binding, kinetic and cytotoxic studies *Journal of Coordination Chemistry* (2022), **M23**
doi:10.1080/00958972.2022.2106562

Jovana S Marjanović, Dušan Čočić, Angelina Z Caković, Nevena Petrović, Marijana Kosanić, Marina D Kostić, Vera M Divac

Conferences Seleno-L-cystine and Vanillin Schiff's base: Synthesis, Reaction Mechanism and Biological activity, *ChemistrySelect* (2023), 8, e202204603. **M23**

Ангелина Петровић, Јована Богојески

КРОНОВА БОЛЕСТ – УЗРОК И ТЕРАПИЈА, *Хемијски Преглед* (2020), 61, 1.
YU ISSN04406826 UDC 54.011.93

Angelina Petrović, Milan M. Milutinović, Marko Živanović, Andreas Scheuer, Ralph Puchta, Olivera Klisurić, Jovana Bogojeski,
Structure–reactivity relationship and biological activity of the camphor-derived of the bis-pyrazolylpyridine Rh(III) complexes
55th MEETING OF THE SERBIAN CHEMICAL SOCIETY, 2018, Novi Sad, Serbia, June 8-9, MHP10

Angelina Petrović, Aleksandar Mijatović, Rada Baošić, Jovana Bogojeski
Interactions of copper(II) complexes of some Schiff base ligands with calf thymus DNA and bovine serum albumin
Sixth Conference of the Young Chemists of Serbia, 2018, Belgrade, Serbia, 27. oktober, MH13 PE 11

Angelina Z. Petrović, Dušan S. Ćocić, Marko N. Živanović, Linus M. Kuckling*, Jovana V. Bogojeski
Interactions of the Rh (III) complex with DNA / protein; Testing the cytotoxicity of the complex
56th MEETING OF THE SERBIAN CHEMICAL SOCIETY, 2019, Niš, Serbia, June 7-8, NH P 4

Vera M. Divac, Angelina Z. Petrović, Kristina Z. Mihajlović, Jovana Bogojeski, Marina D. Kostić, Marko N. Živanović
Synthesis of New Pd(II) Complexes Bearing Organoselenium Ligands and Evaluation of Cytotoxic, Antimicrobial, Antioxidant Activity and DNA-binding studies
8th workshop of the Network SeS Redox & catalysis – (WSeS8), 2019, Perugia, Italia, May 30th - June 1st, P14

Jevtić V.V., Tomović D.Lj., Bukonjić A.M., Stanković A.S., Mijajlović M.Ž., Nikolić M.V., Mijailović Ž., Knežević S., Radić G.P., Bogojeski J.V., Petrović A.Z.
DNA AND BSA BINDING OF COPPER(II)-COMPLEXES WITH S-ISOALKYL DERIVATIVES OF THIOSALICYLIC ACID, XXI Mendeleev Congress on General and Applied Chemistry, 2019, Saint Petersburg, Russia, 9–13 September, Book 5: Abstracts. p. 150

Angelina Z. Petrović, Jovana V. Bogojeski
Effect of ionic liquid on the kinetic reactions of Rh(III) complexes with biologically important ligands, Seventh Conference of the Young Chemists of Serbia, 2019, Belgrade, Serbia, 02. November, MC PP03

Angelina Z. Petrovic, Dušan S. Cocic, Jovana V. Bogojeski, Olivera R. Klisuric
Kinetic reactions of Rh(III) complexes in presence of an ionic liquid with biologically important ligands, XXVIIth Young Research Fellow Meeting – SCT, 2020, Cean, France, 29-31 January

Snežana Jovanović-Stević, Angelina Petrović, Jovana Bogojeski, Biljana Petrović
Study of the interactions of caffeine derived Pt(II) and Pd(II) complexes with important biomolecules, 29th Annual Conference- GP2A 2021, August 25th-27th

S. Jovanović-Stević, J. Bogojeski, A. Caković, B. Petrović
Nucleophilic substitution reactions of the caffeine-derived Pt(II) complexes with important biomolecules, 1st Internacional Conference on Chemo and Bioinformatics, 2021, Kragujevac, Serbia, Oktober 26-27

Angelina Z. Caković, Dušan S. Ćocić, Marko Živanović, Jelena Pavić, Katarina Virijević, Nenad Janković, Milan Vraneš, Jovana V. Bogojeski
Effect of using biocompatible ionic liquids as cosolvents on the reactions of Rh(III) complexes with 5'-GMP, and CT-DNA, as well as on their cytotoxic effect, Internacional Conference on advances in science and technology, 2022, Herce Novi, Montenegro, 26-29 May

Memberships Serbian Chemical Society
 Serbian Young Chemists' Club
 EFMC-YCN

Certifications Certificate of Completion of CPD course – School of gas chromatography/mass spectrometry
 Certificate of Completion of CPD course – School of high performance liquid chromatography