dr Biljana V. Petrović, docent

Curiculum Vitae

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OBRAZOVANJE

Osnovna škola:	Zaječar, Srbija, 1977 – 1985.
Srednja škola:	Zaječar, Srbija, 1985 – 1989.
Studije fizike:	Prirodno-matematički fakulet, Grupa za hemiju
	Univerzitet u Kragujevcu
	Kragujevac, 1989 – 1994.
Poslediplomske studije:	Prirodno-matematički fakultet
	Univerzitet u Kragujevcu
	Kragujevac, 1994 -1999.
Doktorske studije:	Prirodno-matematički fakultet
	Univerzitet u Kragujevcu,
	Kragujevac, 1999 – 2005.
Strani jezici:	Engleski

PROFESIONALNA KARIJERA

Docent:	Institut za Hemiju
	Prirodno-matematički fakultet
	Univerzitet u Kragujevcu
	Kragujevac, 2007 -
Vanredni profesor:	
Redovni profesor:	
Inostrana usavrsavanja:	Univeryitet u Erlangenu-Nurnberg, Nemacka – 2006, 2007,
	Univerzitet u Gentu, Belgija, 2009

Predmeti koje predaje:	Industrijska hemija 1, Hemija atmosfere, Medicinska hemija i dizajn lekova 1
Naučna oblast istraživanja:	Neorganska hemija

UČEŠĆE NA PROJEKTIMA

Domaći:	Broj projekta	Naziv projekta
	1254 (2002-2005)	Sinteza ireaktivnost novih organskih jedinjenja i kompleksa metala kao potencijalnih terapeutskih i biološki aktivnih agenasa
	142008 (2005-2010)	Struktura novih kompleksa jona prelaznih metala i mehanizam njihovih reakcija sa biološki značajnim ligandima
Međunarodni:	Broj projekta	Naziv projekta

NAUČNI RADOVI (ISI lista)

1. **Ž. D. Bugarčić, B. V. Djordjević and M. I. Djuran**
Mechanism of the reactions between chloro(2,2':6',2''-terpyridine) platinum(II) and ligands containing a thiol group
*J. **Serb. Chem. Soc.,** **1997,** 62, 11, 1031-1036.

2. **Ž. D. Bugarčić and B. V. Djordjević**
Kinetics and mechanism for the reactions of platinum(II) complexes and thioglycolic acid
***Monatsh. Chem.,** **1998,** 129, 1267-1274.

3. **B. V. Petrović, M. I. Djuran and Ž. D. Bugarčić**
Binding of platinum(II) to some biologically important thiols
***Metal-Based Drugs,** **1999**, 6, 355-360.

4. **B. V. Petrović and Ž. D. Bugarčić**
Kinetics and Mechanism of Complex Formation between $[PtCl(dien)]^+$ and Thiols and Thioethers
*J. **Coord. Chem.,** **2001,** 53, 35-45.

5. **Ž. D. Bugarčić, B. V. Petrović and R. Jelić**
Hydrolysis of $[Pt(dien)H_2O]^{2+}$ and $[Pd(dien)H_2O]^{2+}$ complexes in aqueous solutions
***Trans. Met. Chem.,** **2001**, 26, 6, 668-671.

6. **V. Vasić, M. Čakar, J. Savić, B. Petrović, J.Nedeljković and Ž. Bugarčić**
Influence of sodium dodecyl sulfate on the kinetics of complex formation between $[PdCl(dien)]^+$ and sulfur containing ligands L-cysteine and glutathione
***Polyhedron,** **2003,** 22, 279-285.

7. **Ž. D. Bugarčić, B. Petrović and E. Zangrando**
Kinetics and mechanism of the complex formation of $[Pd(NNN)Cl]^+$ with pyridines in methanol: synthesis and crystal structure of $[Pd(terpy)(py)](ClO_4)_2$
***Inorg, Chim. Acta,* 2004,** 357, 9, 2650-2656.

8. **B. Petrović and Ž. D. Bugarčić**
Kinetics and mechanistic study on the reactions of $[Pd(dien)H_2O]^{2+}$ and $[Pt(dien)H_2O]^{2+}$ with L-cysteine and S-methyl-L-cysteine
***Aust. J. Chem.,* 2005,** 58, 7, 544-550.

9. **D. Jaganui, F. Tiba, O. Q. Munro, B. Petrović and Ž. D. Bugarčić**
Kinetic and mechanistic study on the reactions of $[Pt(bpma)(H_2O)]^{2+}$ and $[Pd(bpma)(H_2O)]^{2+}$ with some nucleophiles. Crystal structure of $[Pd(bpma)(py)](ClO_4)_2$
***Dalton Trans.,* 2006,**(24), 2943-2949.

10. **J. Rosić, B. Petrović, M. I. Djuran and Ž. D. Bugarčić**
Thermodynamic and kinetic studies on reactions of Pt(II) complexex with pyrazole, pyridazine and 1,2,4-triazole
***Monatsh. Chem.,* 2007,** (138), 1-11.

11. **D. Petrović, B. Stojimirović, B. Petrović, Z. M. Bugarčić and Ž. D. Bugarčić**
Studies of interactions between platinum(II) complexes and some biologically relevant molecules
Bioorg. Med. Chem., 2007, 4203-4211.

12. **Ž. D. Bugarčić, J. Rosić, B. Petrović, N. Summa, R. Puchta and R. van Eldik**
Kinetics and mechanism of the substitution reactions of $[PtCl(bpma]^+$, [PtCl(gly-met-S,N,N)] and their aqua analogs with L-methionine, glutathione and 5′-GMP
J. Biol. Inorg. Chem*., 2007, 12, 1141-1150*.

13. **B. Petrović, Ž. D. Bugarcic, R. van Eldik**
*Kinetic studies on the reactions of [Pd(dach)(X-Y)] complexes with some DNA constituents***.**
Dalton Trans., 2008, 807-813.

14. **Z. M. Bugarčić, B. Petrović, M. D. Rvovic**
Kinetics and mechanism of the pyridine-catalyzed reaction of phenylselenenyl halides and some unsaturated alcohols.
J.Mol. Catalysis A, 2008, 287(1-2), 171-175.

15. **B. Šmit, B. Petrović, S. Sovilj, D. Čanović, Ž. D. Bugarčić**
Study of the reactions of cisplatin with ranitidine and nizatidine bz means of ^1H NMR spectroscopy in D_2O
Monatsh. Chem. 2008, 139, 1197-1202.

16. **Ž. D. Bugarčić, B. Petrović, Z. M. Bugarčić, S. M. Janković, S. V. Janković, G. Lukić, M- Novaković, V. Kostović, S. Popović, P. Djurdjević, D. Baskić, N. Arsenijević**
Effects of cisplatin and other Pt(II) complexes on sponataneous motility of isolated human oviduct
Toxicology in vitro, 2008, 22, 1878-1882.

17. **M. Petković, B. Petrović, Ž. D. Bugarčić, J. Dimitrić-Marković, T. Momić and V. Vasić**
Flavonoids as matrics for MALDI-TOF mass spectroscopy analysis of transition metal complexes
International Journal of Mass Spectroscopy, 2010, 290, 39-46.

18. **M. Milovanovic, A. Djekovic, V. Volarevic, B. Petrovic, N. Arsenijevic and Z. D. Bugarcic**
Ligand substitution reactions and cytotoxic properties of [Au(L)Cl2]+ and [AuCl2(DMSO)2]+ complexes (L = ethylenediamine and S-methyl- -cysteine).
Journal of Inorganic Biochemistry , 2010, 104(9), 944-949.

19. **S. Jovanovic, B. Petrovic and Z. D. Bugarcic**
UV-Vis, HPLC, and 1H-NMR studies of the substitution reactions of some Pt(IV) complexes with 5'-GMP and L-histidine.
Journal of Coordination Chemistry, 2010, 63(14-16), 2419-2430.

20. S. Markovic and B. Petrovic
Kinetics of the disproportionation reaction of HIO_2 in acidic aqueous aolutions. ***International Journal of chemical kinetics***, 2010, *prihvacen za publikovanje, DOI: 10.1002/kin.20516.*

NAUČNA SAOPŠTENJA

1. **B. V. Đorđević and Ž. D. Bugarčić**
Kinetics and mechanism of the reaction between $[Pt(dien)Cl]^+$ and sulfur-bonding ligands
1st International Conference of the Chemical Societies of the South-East European Countries, 1998, Halkidiki, Greece, June 1-4, PO 30

2. **Ž. D. Bugarčić and B. V. Đorđević**
Study of the reactions between platinum(II) complexes and thiols
1st International Conference of the Chemical Societies of the South-East European Countries, 1998, Halkidiki, Greece, June 1-4, PO 18

3. **L.Cattalini, G. Annibale, M. Brandolisio, Ž. Bugarčić and B. Đorđević**
Nucleophilicity of thiols and thioethers towards platinum(II) substrates
XXXIII International Conference of Coordination Chemistry, 1998, Florence, Italy, August 30 – September 4, p. 583

4. **B. V. Petrović and Ž. D. Bugarčić**
Mechanism of the complex formation reactions between $[PtCl(dien)]^+$ with L-cysteine and S-methyl-L-cysteine
XXXIX Savetovanje srpskog hemijskog društva, 1999, Beograd, SCG, 15-17 Oktobar, p. 167

5. **D. Ilić, S. U. Milinković, B. V. Đorđević, Ž. D. Bugarčić and M. I. Đuran**
Chelate complexes of some transition elements as a new aditives for animal food
XXXIX Savetovanje srpsog hemijskog društva, 1999, Beograd,SCG, 15-17 Oktobar, s. 170

6. **B. Petrović, E. Zangrando and Ž. Bugarčić**
Synthesis and crystal structure of $[Pd(terpy)(py)](ClO_4)_2$
XI konferencija Srpskog kristalografskog društva, 2003, Oplenac, SCG, 25-27 Septembar

7. **B. Petrović, J. Rosić and Ž. Bugarčić**
Kinetics and mechanism of the reactions between Pt(II) and Pd(II) complexes with sulfur-bonding ligands
4th International Conference of the Chemical Societies of the South-East European Countries, 2004, Belgrade, SCG, July 18-21

8. **B. Petrović, D. Jaganui and Ž. D. Bugarčić**
Synthesis and crystal structure of $[Pd(pap)(py)](ClO_4)_2$
XII konferencija Srpskog kristalografskog društva, 2004, Kragujevac, SCG, PMF, Septembar 16-18., p.30

9. **J. Rosić, Tanja Soldatović, Biljana Petrović and Živadin D. Bugarčić**
Kinetics and mechanism of the substitution reactions between monofunctional Pt(II) complexes with some sulfur and nitrogen donor biomolecules
5th International Conference of the Chemical Societies of the South-East European Countries, 2006, Ohrid, Macedonia, September 10-14, PCH-62

10. **V. Divac, M. Rvović, B. Petrović and Z. Bugarčić**
Kinetics and mechanism of the reactions of phenylselenenyl halogenides and some unsaturated alcohols
5th International Conference of the Chemical Societies of the South-East European Countries, 2006, Ohrid, Macedonia, September 10-14, PCH-13

11. **J. Rosić, T. Soldatović, B. Petrović and Ž. D. Bugarčić**
The interaction between Pt(II) complexes and some sulfur and nitrogen donor biomolecules,
9th FIGIPAS Meeting in Inorganic Chemistry, 2007, Vienna, Austria, July 4 – 7. Book of Abstracts, PO165.

12. **J. Rosić, A. Djeković, B. Petrović and Ž. D. Bugarčić**
The interaction between Pt(II) complexes and some sulfur and nitrogen donor biomolecules,
6th International Conference of the Chemical Societies of the South-Eastern European Countries,2008, Sofia, Bulgaria
September 10-14, Book of Abstracts, P 174.

13. R. Jelić, B. Petrović, P. Djurđević and Ž. D. Bugarčić
Equilibria studies of the reactions between [Pt(H2O)2(dach)]2+ complex and some sulphur and nitrogen donor biomolecules
4th Central European conference Chemistry toward Biology, Dobogoko, Hungary, 2008
September 8-11,Book of Abstracts, P 94.

14. B. Petrović, A. Dees, I. Ivanovic-Burmazovic, R. Van Eldik and Ž. D. Bugarčić
Reactivity of some biomoleculs toward novel monofunctional Pt(II) complex
4th Central European conference Chemistry toward Biology, Dobogoko, Hungary, 2008
September 8-11,Book of Abstracts, P 118.

15. A. Đeković, B. Petrović and Ž. D. Bugarčić
Kinetics and mechanism of the substitution reactions between some Au(III) complexes and biologically relevant ligands
47th Meeting of the Serbian Chemical Society, 2009, Belgrade, Serbia, March 21st, NH 02.

16. A. Đeković, B. Petrović and Ž.D. Bugarčić
Kinetics and mechanism of the substitution reactions between some Au(III) complexes and bilogicallz relevant ligands
The 5th Internationa Conference on Gold Science, Technology and Its Applications, University of Heidelberg, Germany, 26-29 July, 2009
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17. M. Milovanović, V. Volarević, A. Đeković, B. Petrović, Ž.D. Bugarčić and N. Arsenijević
Effect of Au(III) complexes on human lymphocyte leukemia (HLL) cells
The 5th Internationa Conference on Gold Science, Technology and Its Applications, University of Heidelberg, Germany, 26-29 July, 2009
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18. Snežana Jovanović, Biljana Petrović and Živadin D. Bugarčić
The UV-VIS, HPLC and HMR studies of the substitution reactions of [$PtCl_4$(dach)] complex with 5'-GMP and histidine
10th International Symposium on Applied Bioinorganic Chemistry, 25-28 September, 2009. Debrecen, Hyngary, P12

19. Ana Rilak, Biljana Petrović, Sanja Grgurić and Ivanka Ivanović
Kinetics of the substitution reactions of some Ru(III) complexes with N-donor biologicalyz relavant nucleophiles
XLVIII Savetovanje srpskog hemijskog društva, Novi Sad, 17-18. april 2010, p. 76.

20. Biljana Petrović, Snežana Jovanović and Živadin D. Bugarčić
Mechanism of the substitution reactions of some Pt(IV)) complexes with 5-GMP and histidine
10th European Biological Inorganic Chemistry Conference, June 22-26, 2010, Thessaloniki, Greece, p. 197.

UDŽBENICI

1. Ž. D. Bugarčić, B. V. Petrović, *Mehanizmi neorganskih reakcija*, ***Praktikum, PMF Kragujevac, 2007***

ČLANSTVO U DOMAĆIM I INOSTRANIM ORGANIZACIJAMA

Član je Srpskog hemijskog drustva

MENTORSTVO

Doktorati:	Trenutno je mentor za izradu doktorke disertacije kandidata Smiljane Markovic
Magistarture:	
Specijalizacije:	