

Dr Biljana V. Petrović, docent
Curriculum Vitae

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<i>Datum rođenja:</i>	04.10.1970.
<i>Mesto rođenja:</i>	Zaječar, Srbija
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OBRAZOVANJE

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

PROFESIONALNA KARIJERA

<i>Docent:</i>	Institut za Hemiju Prirodno-matematički fakultet Univerzitet u Kragujevcu Kragujevac, 2007 -
<i>Predmeti koje predaje:</i>	Industrijska hemija 1, Hemija atmosfere, Medicinska hemija i dizajn lekova 1
<i>Naučna oblast istraživanja:</i>	Neorganska hemija, Bioneorganska hemija

UČEŠĆE NA PROJEKTIMA

Domaći:	Broj projekta	Naziv projekta
	1254 (2002-2005)	Sinteza ireaktivnost novih organskih jedinjenja i kompleksa metala kao potencijalnih terapijskih i biološki aktivnih

		agenasa
	142008 (2005-2010)	Struktura novih kompleksa jona prelaznih metala i mehanizam njihovih reakcija sa biološki značajnim ligandima

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)H₂O]²⁺ and [Pd(dien)H₂O]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)](ClO₄)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)H₂O]²⁺ and [Pt(dien)H₂O]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)(H₂O)]²⁺ and [Pd(bpma)(H₂O)]²⁺ with some nucleophiles. Crystal structure of [Pd(bpma)(py)](ClO₄)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) complex 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. Bugarčić, 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 by means of ¹H NMR spectroscopy in D₂O
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 spontaneous motility of isolated human oviduct
Toxicology in vitro, 2008, 22, 1878-1882.

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 srpskog 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)](ClO₄)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)](ClO₄)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, Ž. D. Bugarčić**
Reactivity of some biomolecules 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, 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.

UDŽBENICI

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