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Curriculum Vitae

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### ПРОФЕСИОНАЛНА КАРИЈЕРА

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## УЧЕШЋЕ НА ПРОЈЕКТИМА

Домаћи:	<ul style="list-style-type: none"> <li>- 1254 (2002-2005): Синтеза и реактивност нових органских једињења и комплекса метала као потенцијалних терапеутских и биолошки активних агенаса</li> <li>- 142008 (2005-2010): Структура нових комплекса јона прелазних метала и механизам њихових реакција са биолошки значајним лигандима</li> <li>- 172011 (2011-2020): Испитивање механизма реакција комплекса јона прелазних метала са биолошки значајним молекулима</li> </ul>
Међународни:	<ul style="list-style-type: none"> <li>- COST action: D39 "Metallo-drug design and action", 2006-2011</li> <li>- The bilateral project between Republic of Serbia and Federal Republic of Germany to the project period 2009 – 2010: "Investigation of the mechanism of co interaction of Pd(II) and Pt(II) complexes with biological relevant molecules"</li> <li>- The bilateral project between Republic of Serbia and Federal Republic of Germany to the project period 2011 – 2012: "Kinetics and mechanism of the reactions of Au(III), Pt(IV) and Ru(II / III) and some biomolecules"</li> <li>- The bilateral project between Republic of Serbia and Croatia for the period 2010 – 2011: "Study of the interactions of transition metal ion complexes with some important biological ligands"</li> </ul>
Међународни:	<ul style="list-style-type: none"> <li>- TEMPUS - STERU - Science Teacher Education Revision and Upgrade, 2006-2009</li> <li>- TEMPUS – MCHEM - Modernization of Post-Graduate Studies in Chemistry and Chemistry related Programs, 2010-2013</li> <li>- TEMPUS - RODOS - Restructuring of Doctoral Studies in Serbia, 2013-2016</li> <li>- ERASMUS - NETCHEM - ICT Networking for Overcoming Technical and Social Barriers in Instrumental Analytical Chemistry education, 2016-2019</li> </ul>

## МЕНТОРСТВО

Докторске дисертације:	2 одбрањене, 3 у процедури
Мастер радови:	17
Дипломски и завршни радови:	22

## ОСТАЛО

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## ПУБЛИКАЦИЈЕ

Радови у међународним часописима	
1.	S. Jovanović Stević, D. Ćočić, R. Puchta, J. Bogojeski, M. Jurišević, N. Gajović, S. Jakovljević, N. Arsenijević, I. Jovanović, <b>B. Petrović</b> , Assessment of biological activity of the caffeine-derived Pt(II) and Pd(II) complexes, Applied Organometallic Chemistry, 2021, e6532.
2.	S. Radisavljević, A. Scheurer, D. Bockfeld, D. Ćočić, R. Puchta, L. Senft, M. Pešić, I. Damljanović, <b>B. Petrović</b> , New mononuclear gold(III) complexes. Synthesis, characterisation, kinetic, mechanistic, DNA/BSA/HSA binding, DFT and molecular docking studies, Polyhedron, 2021, 115446.
3.	S. S. Jovičić Milić, V. V. Jevtić, E. H. Avdović, <b>B. Petrović</b> , M. Međedović, Đ. S. Petrović, M. Milovanović, J. Milovanović, N. Arsenijević, D. Lj. Stojković, G. P. Radić, M. J. Stanković, DNA binding, molecular docking study and antitumor activity of [PdCl <sub>2</sub> (R <sub>2</sub> (S,S)-eddtrp)] complexes, Monatshefte für Chemie, 2021, 152, 951-958.
4.	S. Jovanović-Stević, S. Radisavljević, A. Scheurer, D. Ćočić, B. Šmit, M. Petković, M. N. Živanović, K. Virijević, <b>B. Petrović</b> , Bis(triazinyl)pyridine complexes of Pt(II) and Pd(II): studies of the nucleophilic substitution reactions, DNA/HSA interactions, molecular docking and biological activity, Journal of Biological Inorganic Chemistry, 2021, 26, 625–637.
5.	S. Radisavljević, <b>B. Petrović</b> , Gold(III) Complexes: An overview on their kinetics, interactions with DNA/BSA, cytotoxic activity, and computational calculations, Frontiers in Chemistry, 2020, 8, 379.
6.	A. Rilak Simović, J. Bogojeski, <b>B. Petrović</b> , S. Jovanović-Stević, Bis-pyrazolylpyridine complexes of some transition metal ions: Structure-Activity Relationships and Biological Activity, Macroheterocycles, 2020, 13, 201-209.

7.	D. Čočić, S. Jovanović-Stević, R. Jelić, S. Matić, S. Popović, P. Djurdjević, D. Baskić, <b>B. Petrović</b> , Homo- and hetero-dinuclear Pt(II)/Pd(II) complexes: studies of hydrolysis, nucleophilic substitution reactions, DNA/BSA interactions, DFT calculations, molecular docking and cytotoxic activity, Dalton Transactions, 2020, 49, 14411-14431.
8.	S. Radisavljevic, A. Djekovic-Kesic, D. Cocic, R. Puchta, L. Senft, M. Milutinovic, N. Milivojevic, <b>B. Petrović</b> , Studies of the stability, nucleophilic substitution reactions, DNA/BSA interactions, cytotoxic activity, DFT and molecular docking of some tetra- and penta-coordinated gold(III) complexes, New Journal of Chemistry, 2020, 4, 11172-11187.
9.	M. Medjedovic, A. Rilak Simovic, D. Cocic, M. Milutinovic, L. Senft, S. Blagojevic, N. Milivojevic, <b>B. Petrović</b> , Dinuclear ruthenium(II) polypyridyl complexes: Mechanistic study with biomolecules, DNA/BSA interactions and cytotoxic activity, Polyhedron, 2020, 178, 114334.
10.	S. Radisavljević, D. Čočić, S. Jovanović, B. Šmit, M. Petković, N. Milivojević, N. Planojević, S. Marković and <b>B. Petrović</b> , Synthesis, characterization, DFT study, DNA/BSA-binding affinity, and cytotoxicity of some dinuclear and trinuclear gold(III) complexes, Journal of Biological Inorganic Chemistry, 2019, 24 (7), 1057-1076.
11.	A. Franich, M. D. Živković, D. Čočić, <b>B. Petrović</b> , M. Milovanović, A. Arsenijević, J. Milovanović, D. Arsenijević, B. Stojanović, M. I. Đuran, S. Rajković, New dinuclear palladium(II) complexes with benzodiazines as bridging ligands: interactions with CT-DNA and BSA, and cytotoxic activity, Journal of Biological Inorganic Chemistry, 2019, 24 (7), 1009-1022.
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21.	S. Jovanovic, K. Obrenčević, Ž. D. Bugarčić, I. Popović, J. Žakula, <b>B. Petrović</b> , New bimetallic palladium(II) and platinum(II) complexes: studies of the nucleophilic substitution reactions, interactions with CT-DNA, bovine serum albumin and cytotoxic activity, <i>Dalton Transactions</i> , 2016, 45, 12444 – 12457.
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27.	R. M. Karkalić, D. B. Jovanović, S. S. Radaković, D. S. Rajić, <b>B. V. Petrović</b> , N. D. Ivanković, Ž. B. Senić, The influence of the passive evaporative cooling vest on a chemical industry workers and physiological strain level in hot conditions, <i>Hemijska industrija</i> , 2015, 69 (6), 587-594.
28.	S. Jovanović, <b>B. Petrović</b> , Ž. D. Bugarčić, R. Van Eldik, Reduction of some Pt(IV) complexes with biologically important sulfur-donor ligands, <i>Dalton Transaction</i> , 2013, 42 (24), 8890 – 8896.
29.	A. Mijatović, R. M. Jelić, J. Bogojeski, Ž.D. Bugarčić, <b>B. V. Petrović</b> , Kinetics, mechanism, and equilibrium studies of the reactions between ruthenium(II) complex and some nitrogen- and sulfur-donor nucleophiles, <i>Monatshefte fur Chemie</i> , 2013, 144, 1489-1498.
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31.	A. Mijatović, B. Šmit, A. Rilak, <b>B. Petrović</b> , D. Čanović, Ž. D. Bugarčić, NMR kinetic studies of the interactions between [Ru(terpy)(bipy)(H <sub>2</sub> O)] <sup>2+</sup> and some sulfur-donor ligands, <i>Inorganica Chimica Acta</i> , 2013, 394, 552-557.
32.	E. Selimović, T. Vulović, <b>B. Petrović</b> , Ž. Bugarčić, J. Bogojeski, Complex formation reactions of two sterically hindered platinum(II) complexes with some bonding ligands, <i>Transition Metal Chemistry</i> , 2013, 38, 635-640.
33.	<b>B. Petrović</b> , Ž. D. Bugarčić, A. Dees, I. Ivanović-Burmazović, F. W. Heinemann, R. Puchta, S. N. Steinmann, C. Corminboeuf, R. van Eldik, Role of π-Acceptor Effects in Controlling the Lability of Novel Monofunctional Pt(II) and Pd(II) Complexes: Crystal Structure of [Pt(triipyridinedimethane)Cl]Cl, <i>Inorganic Chemistry</i> , 2012, 51, 1516-1529.
34.	Ž. D. Bugarčić, J. Bogojeski, <b>B. Petrović</b> , S. Hochreuther, R. van Eldik, Mechanistic studies on the reactions of platinum(II) complexes with nitrogen and sulfur-donor biomolecules, <i>Dalton Transactions</i> , 2012, 41,

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35.	A. Djeković, <b>B. Petrović</b> , Ž. D. Bugarčić, R. Puchta, R. van Eldik, Kinetics and mechanism of the reactions of Au(III) complexes with some biologically relevant molecules, Dalton Transactions, 2012, 41, 3633-3641.
36.	M. Djurović, J. Bogojeski, <b>B. Petrović</b> , D. Petrović, F.W. Heinemann, Ž. D. Bugarčić, Ligand substitution reactions of some sterically hindered Pt(II) complexes. The crystal structure of $[TL^{tBu}H_2](ClO_4)_2 \cdot 0.5H_2O$ , Polyhedron, 2012, 41, 70-76.
37.	A. Mijatović, J. Bogojeski, <b>B. Petrović</b> , Ž. D. Bugarčić, Substitution reactions of some novel sterically hindered monofunctional Pd(II) complexes, Inorganica Chimica Acta, 2012, 383, 300-304.
38.	R. Jelić, S. Marković, <b>B. Petrović</b> , Equilibrium studies on complex formation reactions of dichlorido[(R,R)-trans-1,2-diaminocyclohexane] platinum(II) complex with ligands of biological significance, Monatshefte für Chemie, 2011, 142, 985-992.
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46.	V. Volarević, M. Milovanović, A. Djeković, <b>B. Petrović</b> , N. Arsenijević, Ž. D. Bugarčić, The cytotoxic effects of some selected gold(III) complexes on 4T1 cells and their role in the prevention of breast tumor growth in BALB/c mice, Journal of the Balcan Oncology, 2010, 15, 768-773.
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