

Име и презиме: Живадин Д. Бугарчић

Академско или научно звање: Редовни професор

**Афилијација: Институт за хемију, Природно-математички факултет,
Универзитет у Крагујевцу**

ОБРАЗОВАЊЕ

Установа	од (год.)	до (год.)	Стечена диплома
Природно-математички факултет, Универзитет у Крагујевцу	1973	1978	Дипломирани хемичар
Природно-математички факултет, Универзитет у Крагујевцу	1979	1984	Магистар хемијских наука
Природно-математички факултет, Универзитет у Крагујевцу Универзитет у Лунду, Шведска	1984 1987	1989 1988	Доктор хемијских наука
Универзитет у Лунду, Шведска	1990	1991	Постдокторске студије

Професионално искуство:

Организација	од	до	Функција
Природно-математички факултет, Универзитет у Крагујевцу	1979	1989	Асистент
Природно-математички факултет, Универзитет у Крагујевцу	1990	1997	Доцент
Природно-математички факултет, Универзитет у Крагујевцу	1997	2002	Ванредни професор
Природно-математички факултет, Универзитет у Крагујевцу	2003		Редовни професор
Универзитет у Венецији, Италија	1995	1996	Гостујући професор
Универзитет у Ерлангену-Нинберг, Немачка	1998, 2000, 2001, 2004, 2005, 2006		Самостални истраживач
Универзитет у Ерлангену-Нинберг, Немачка	2002		Гостујући професор
Универзитет у Барселони, Шпанија	2003	2003	Гостујући професор

УЧЕШЋЕ НА НАЦИОНАЛНИМ ПРОЈЕКТИМА

- 1) Хемијске реакције метала, структура координационих једињења и нове реакције у органској хемији, 1986-1990
- 2) Синтеза потенцијално биоактивних координационих једињења (ев. бр. 030/94-1), 1994-1996
- 3) Синтеза, структура и својства координационих једињења и других супстанци (ев. бр. 02Е35), 1996-2000
- 4) Развој и примена нових биотехнолошких метода и поступака за повећање производње побољшање квалитета меса, клека и јаја (Ев. Бр. С.4.27.48.0001), 1996-2000

- 5) Синтеза и реактивност нових органских једињења и комплекса метала као потенцијалних терапеутских и биолошки активних агенаса (Ев. бр. 1254), 2002-2005
- 6) Структура нових комплекса јона прелазних метала и механизам њихових реакција са биолошки значајним лигандима (ев. бр. 142008), 2006-2010
- 2) Испитивање механизма реакција комплекса јона прелазних метала са биолошки значајним молекулима (ев. бр. 172011), 2011-2015

УЧЕШЋЕ НА МЕЂУНАРОДНИМ ПРОЈЕКТИМА

- 1) COST акција: D39 „Metallo-drug design and action“, 2006-2011
- 2) Билатерални пројекат између Републике Србије и Савезне Републике Немачке за пројектни период 2009 – 2010; „Испитивање механизма интеракција комплекса Pd(II) и Pt(II) са биолошким релевантним молекулима”
- 3) Билатерални пројекат између Републике Србије и Савезне Републике Немачке за пројектни период 2011 – 2012; „Кинетика и механизам реакција комплекса Au(III), Pt(IV) и Ru(II/III) и неких биомолекула”
- 4) Билатерални пројекат између Републике Србије и Републике Хрватске за пројектни период 2010 – 2011; „Испитивање интеракције комплекса јона метала са неким биолошким значајним лигандима”

РУКОВОЂЕЊЕ НАЦИОНАЛНИМ ПРОЈЕКТИМА

- 1) „Структура нових комплекса јона прелазних метала и механизам њихових реакција са биолошки значајним лигандима” (2006-2010), Ев. број 142008,
- 2) „Испитивање механизма реакција комплекса јона прелазних метала са биолошки значајним молекулима” (2011-2014), Ев. број 172011

РУКОВОЂЕЊЕ МЕЂУНАРОДНИМ ПРОЈЕКТИМА

- 1) Билатерални пројекат између Републике Србије и Савезне Републике Немачке за пројектни период 2009 – 2010; „Испитивање механизма интеракција комплекса Pd(II) и Pt(II) са биолошким релевантним молекулима”
- 2) Билатерални пројекат између Републике Србије и Савезне Републике Немачке за пројектни период 2011 – 2012; „Кинетика и механизам реакција комплекса Au(III), Pt(IV) и Ru(II/III) и неких биомолекула”
- 3) Билатерални пројекат између Републике Србије и Републике Хрватске за пројектни период 2010 – 2011; „Испитивање интеракције комплекса јона метала са неким биолошким значајним лигандима”

УЧЕШЋЕ У НЕНАУЧНИМ ПРОЈЕКТИМА (TEMPUS, ERASMUS, IPA...)

- 1) Учесник TEMPUS пројекта RODOS: Restructuring of Doctoral Studies in Serbia, grant number: 787517.36 (2013 – 2016)

РЕЦЕНЗЕНТ НАУЧНИХ РАДОВА У ЧАСОПИСИМА

По позиву едитора рецензира научне радове за велики број међународних часописа, као што су:

Acta Chimica Slovenica

Australian Journal of Chemistry

Bioorganic Chemistry

European Journal of Medicinal Chemistry

Inorganica Chimica Acta

International Journal of Chemical Kinetics

Journal of Coordination Chemistry

Journal of Inorganic Biochemistry

Journal of Solution Chemistry

Polyhedron

Journal of Serbian Chemical Society

New Journal of Chemistry

Dalton Transaction

International Journal of Pharmaceutics

Journal of Medicinal Chemistry

RSC Advances

ЧЛАНСТВО У ПРОГРАМСКИМ КОМИТЕТИМА НАУЧНИХ КОНФЕРЕНЦИЈА

49. Саветовање српског хемијског друштва, 2011. год.

53. Саветовање српског хемијског друштва, 2016. год.

МЕНТОР СТУДЕНТИМА КОЈИ СУ ОДБРАНИЛИ ДОКТОРСКЕ ДИСЕРТАЦИЈЕ

- 1) др Биљана Петровић: Кинетика и механизам супституционих реакција комплекса паладијаума(II) и платине(II), 2005
- 2) др Тања Солдатовић: Изучавање супституционих реакција комплекса паладијаума(II) и платине(II), 2007
- 3) др Јована Богојески: Испитивање кинетике и механизма реакција комплекса Pt(II) и Pd(II) са биолошки значајним лигандима, 2012
- 4) др Снежана Јовановић: Механизам нуклеофилних супституционих реакција комплекса Pt(IV) и динуклеарних комплекса Pt(II), 2013

- 5) др Ана Ђековић: Испитивање механизма нуклеофилних супституционих реакција комплекса злата(III), 2013
- 6) др Ана Рилак: Синтеза, карактеризација и испитивање механизма супституционих реакција рутенијум(II) комплекса, 2015
- 7) др Ениса Селимовић: Испитивање кинетике и механизма реакција супституционих реакција мононуклеарних и динуклеарних комплекса Pt(II), 2015
- 8) др Александар Мијатовић: Кинетика и механизам супституционих реакција комплекса паладијума(II) и рутенијума(II), 2015
- 9) др Мирјана Ђуровић: Кинетика, катализа и редокс реакције комплексних једињења злата(I) и злата(III), 2015

КЉИГЕ, МОНОГРАФИЈЕ И ПОГЛАВЉА У КЊИГАМА И МОНОГРАФИЈАМА (БЕЗ УЦБЕНИКА)

1. **M. Petković, J. Bogojeski, M. Nešić, B. Petrović, I. Popović and Ž. D. Bugarčić**
Phospholipids and Metallodrugs: Is Their Interaction Essential for Cancer Therapy, Lecithins and Phospholipids, Biochemistry, Properties and Clinical Significance
Book Ed. Jason Hernandez, Nova Publisher, New York, USA, 2015.
2. **N. Arsenijević, V. Volarević, M. Milovanović and Ž. D. Bugarčić**
Gold(III) complexes, Cytotoxic Effects, pp.922-927.
In Encyclopedia of Metalloproteins, Eds. R. H. Kretsinger, V. N. Uversky and E. A. Permyakov, Springer, Heidelberg, 2013.
3. **J. Bogojeski, B. Petrović and Ž. D. Bugarčić**
Interactions of the Platinum(II) Complexes with Nitrogen- and Sulfur-Bonding Bio-Molecules in Chronic Lymphocytic Leukemia, Ch. 16, In Chronic Lymphocytic Leukemia, Ed. P. Oppezzo, InTech, Rijeka, 2012.

ЕДИТОР ЧАСОПИСА, ЗБОРНИКА И КЊИГА

Члан Интернационалног издвачког одбора

Research & Reviews in BioSciences

ДЕСЕТ НАЈВАЖНИЈИХ РЕФЕРЕНЦИ У ВЕЗИ СА ПРОЈЕКТОМ

1. **Ž. D. Bugarčić, J. Bogojeski and R. van Eldik**
Kinetics, mechanism and equilibrium studies on the substitution reactions of Pd(II) in reference to Pt(II) complexes with bio-molecules
Coord. Chem. Rev., 2015, 292, 91-106.

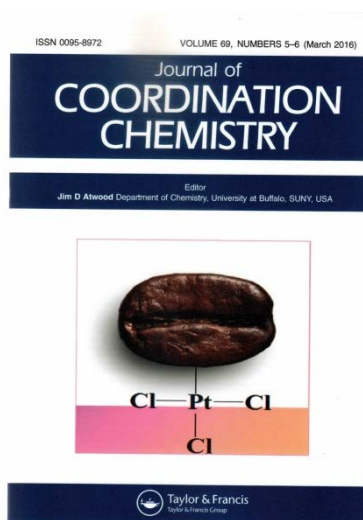
2. **J. Bogojeski, V. Jeroen, F. Mattias, T. Mattias and Ž. D. Bugarčić**
Palladium(II) complexes with highly basic imidazolin-2-imines and their reactivity toward small bio-molecules
Dalton Trans., 2015, 44, 3148-3163/17346-17359.
3. **A. Rilak, I. Bratsos, E. Zangrando, J. Kljun, I. Turel, Ž. D. Bugarčić and E. Alessio**
New Water-Soluble Ruthenium(II) Terpyridine Complexes for Anticancer Activity: Synthesis, Characterization, Activation Kinetics, and Interaction with Guanine Derivatives
Inorg. Chem., 2014, 53(12), 6113-6126.
4. **M. Đurović, R. Puchta, Ž. D. Bugarčić and R. van Eldik**
Studies on the reactions of [AuCl₄] with different nucleophiles in aqueous Solutions
Dalton Trans., 2014, 43, 8620- 8632.
5. **M. Đurović, Ž. D. Bugarčić, F. W. Heinemann and R. van Eldik**
Substitution versus redox reactions of gold(III) complexes with L-cysteine, L-methionine and glutathione
Dalton Trans., 2014, 43, 3911-3921.
6. **Ž. D. Bugarčić, J. Bogojeski, B. Petrović, S. Hochreuther and R. Van Eldik**
Mechanistic studies on the reactions of platinum(II) complexes with nitrogen- and sulfur-donor biomolecules
Dalton Trans., PERSPECTIVE, 2012, 41, 12329-12345.
7. **A. Rilak, I. Bratsos, E. Zangrando, J. Kljun, I. Turel, Ž. D. Bugarčić and E. Alessio**
Factors that influence the antiproliferative activity of half sandwich Ru^{II}-[9]aneS3 coordination compounds: activation kinetics and interaction with guanine derivatives
Dalton Trans., 2012, 41, 11608-11618.
8. **A. Djeković, B. Petrović, Ž. D. Bugarčić, R. Puchta and R. van Eldik**
Kinetics and mechanism of the reactions of Au(III) complexes with some biologically relevant molecules
Dalton. Trans., 2012, 41, 3633-3641.
9. **B. Petrović, Ž. D. Bugarčić A. Dees, I. Ivanović-Burmazović, F. Hainemann, R. Puchta, S. N. Steinmann, C. Corminboeuf and R. van Eldik**
Role of π-acceptor effects in controlling the lability of novel mono-functional Pt(II) and Pd(II) complexes. Crystal structure of [Pt(triipyridinedimethane)Cl]Cl
Inorg. Chem., 2012, 51, 1516-1529.
10. **T. Soldatović, S. Jovanović, Ž. D. Bugarčić and R. van Eldik**
Substitution behaviour of novel dinuclear Pt(II) complexes with bio-relevant nucleophiles
Dalton Trans., 2012, 41(3), 876-884.

ЦЕЛОКУПНА ЛИСТА НАУЧНИХ РЕЗУЛТАТА (Сортирано од најскоријих ка старијим)

Радови у часописима:

- 1) Радови у међународним часописима

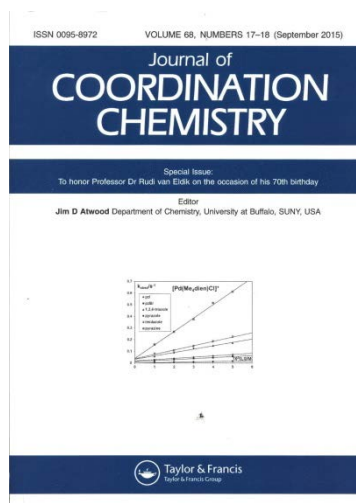
100. **J. Bogojeski, J. Volbeda, Ž. D. Bugarčić, M. Freytagb and M. Tamm**
Platinum(II) complexes with hybrid amine-imidazolin-2-imine ligands and their reactivity toward bio-molecules
New J. Chem., 2016, DOI: 10.1039/C5NJ03360H
99. **D. Lazić, A. Arsenijević, R. Puchta, Ž. D. Bugarčić and A. Rilak**
DNA binding properties, histidine interactions and cytotoxicity studies of water soluble rutenijum(II) terpyridine complexes
Dalton Trans., 2016, 45, 4633-4646.
98. **S. Jovanović, O. Gudurić, R. Puchta and Ž. D. Bugarčić**
Crystal structure of $K[PtCl_3(\text{caffeine})]$ complex and its interactions with important nitrogen-donor ligands
J. Coord. Chem., 2016, 1146257



Cover Article of Journal of Coordination Chemistry, vol. 69, numb. 5, March 2016.
 Front cover

97. **Milica Kosović, Željko Jaćimović, Živadin D. Bugarčić and Biljana V. Petrović**
Kinetics and mechanism of the substitution reactions of some bifunctional palladium(II) complexes with different nitrogendonor heterocycles
Trans. Met. Chem., 2016, 41, 161-168.
96. **S. Jovanović, B. V. Petrović, M. Petrović and Ž. D. Bugarčić**
Kinetics and mechanism of substitution reactions of the new bimetallic $[{\{PdCl(bipy)\}\{I-(NH_2(CH_2)_6H_2N)\}\{PtCl(bipy)\}}]Cl(ClO_4)$ complex with important bio-molecules
Polyhedron, 2015, 101, 206-214.
95. **J. Bogojeski, V. Jeroen, F. Mattias, T. Mattias and Ž. D. Bugarčić**
Palladium(II) complexes with highly basic imidazolin-2-imines and their reactivity toward small bio-molecules
Dalton Trans., 2015, 44, 3148-3163/17346-17359.
94. **S. Jovanović, J. Bogojeski, M. Petrović and Ž. D. Bugarčić**
Interactions of nitrogen-donor bio-molecules with dinuclear platinum(II) complexes
J. Coord. Chem., 2015, 68, 3148-3163.
93. **M. Kosović, Ž. Jaćimović, Ž. D. Bugarčić and B. V. Petrović**

Kinetics and mechanism of the substitution reactions of some monofunctional Pd(II) complexes with different nitrogen-donor heterocycles
J. Coord. Chem., 2015, 68, 3003-3012.



Cover Article of Journal of Coordination Chemistry, vol. 68, numb. 17-18, September 2015.

Front cover

92. **A. Rilak, R. Puchta and Ž. D. Bugarčić**
Mechanism of the reaction of ruthenium(II) polypyridyl complexes with thiourea, sulfur-containing amino acids and nitrogen-containing heterocycles
Polyhedron, 2015, 91, 73-83.
91. **Ž. D. Bugarčić, J. Bogojeski and R. van Eldik**
Kinetics, mechanism and equilibrium studies on the substitution reactions of Pd(II) in reference to Pt(II) complexes with bio-molecules
Coord. Chem. Rev., 2015, 292, 91-106.
(Revija po pozivu, M21, IF 12,1)
90. **M. M. Mišić, V. L. Jakovljević, Ž. D. Bugarčić, V. I. Živković, I. M. Srejšević, N. S. Barudžić, D. M. Djurić and S. S. Novokmet**
Platinum Complexes-Induced cardiotoxicity of isolated, perfused rat heart: Comparison of Pt(II) and Pt(IV) analogues versus cisplatin
Cardiovasc. Toxicol., 2015, DOI 10.1007/s12012-014-9293-8
89. **E. Selimović, T. Soldatović, J. Bogojeski and Ž. D. Bugarčić**
Substitution reactions of dinuclear platinum(II) complexes with some nitrogen nucleophiles
Trans. Metal Chem., 2015, 40, 137-144.
88. **A. Rilak, I. Bratsos, E. Zangrando, J. Kljun, I. Turel, Ž. D. Bugarčić and E. Alessio**
New Water-Soluble Ruthenium(II) Terpyridine Complexes for Anticancer Activity: Synthesis, Characterization, Activation Kinetics, and Interaction with Guanine Derivatives
Inorg. Chem., 2014, 53(12), 6113-6126.
87. **M. Đurović, R. Puchta, Ž. D. Bugarčić and R. van Eldik**
Studies on the reactions of [AuCl₄] with different nucleophiles in aqueous Solutions
Dalton Trans., 2014, 43, 8620- 8632.

86. **M. Đurović, Ž. D. Bugarčić, F. W. Heinemann and R. van Eldik**
Substitution versus redox reactions of gold(III) complexes with L-cysteine, L-methionine and glutathione
Dalton Trans., 2014, 43, 3911-3921.
85. **A. Topolski and Ž. D. Bugarčić**
Kinetics of chloride substitution in $[Pt(bpma)Cl]^+$ and $[Pt(Gly-Met-S,N,N)Cl]$ complexes by thiourea, nitrites and iodides
Chem. Papers, 2014, 68(1), 130-135.
84. **M. D. Radisavljević, T. Kamčeva, Ž. D. Bugarčić and M. Z. Petković**
Inhibitory effect of cisplatin and $[Pt(dach)Cl_2]$ on the activity of phospholipase A2
J. Enzym. Inh. Med. Chem., 2013, 28 (4) 651-660.
83. **A. Mijatović, R. Jelić, J. Bogojeski, Ž. D. Bugarčić and B. Petrović**
Kinetics, mechanism, and equilibrium studies of the interactions between a ruthenium(II) complexes and some nitrogen- and sulfur-donor nucleophiles
Monatsh. Chem., 2013, 144, 1489-1490.
82. **E. Selimović, T. Vulović, B. Petrović, Ž. D. Bugarčić and J. Bogojeski**
Complex formation reactions of two sterically hindered platinum(II) complexes with some N-bonding ligands
Trans. Met. Chem., 2013, 38, 635-610.
81. **V. Petrović, M. Čalović, D. Krstić, A. Vujačić, S. Petrović, G. Jakšić, Ž. D. Bugarčić and V. Vasić**
In vitro effects of some gold complexes on Na^+/K^+ ATPase activity and cell proliferation
J. Inorg. Biochem., 2013, 124, 35-41.
80. **S. Jovanović, B. Petrović, Ž. D. Bugarčić and R. Van Eldik**
Reduction of some Pt(IV) complexes with biologically important sulfur-donor Ligands
Dalton Trans., 2013, 42, 8890-8896.
79. **E. Selimović, B. Petrović, D. Čanović, Ž. D. Bugarčić and J. Bogojeski**
Kinetic studies on the reactions of $[(TL^{tBu})PtCl]^+$ and $[Pt(tpdm)Cl]^+$ complexes with some thiols and thioethers
Aust. J. Chem., 2013, 66, 534-538.
78. **A. Mijatović, B. Šmit, A. Rilak, B. Petrović, D. Čanović and Ž. D. Bugarčić**
NMR kinetic studies of the interactions between $[Ru(terpy)(bipy)(H_2O)]^{2+}$ and some sulfur-donor ligands
Inorg. Chim. Acta, 2013, 394, 552-557.
77. **Ž. D. Bugarčić, J. Bogojeski, B. Petrović, S. Hochreuther and R. Van Eldik**
Mechanistic studies on the reactions of platinum(II) complexes with nitrogen- and sulfur-donor biomolecules
Dalton Trans., PERSPECTIVE, 2012, 41, 12329-12345.
(Revija po pozivu, M21, IF 4,1)



Cover Article of Dalton Transactions, vol. 41, numb. 40, 28 October 2012.

Front cover

Dalton Trans., 2012, 12392-12345.

76. **S. M. Janković, A. Djeković, Ž. D. Bugarčić, S. V. Janković, G. Lukić, M. Folic and D. Čanović**
Effects of aurothiomalate and gold(III) complexes on spontaneous motility of isolated human oviduct
***Biometals*, 2012, 25(5), 919-925**
75. **R. Jelić, E. Selimović, R. Nikolić, Ž. D. Bugarčić and J. Bogojeski**
Equilibrium studies between some transitions metal ions and Me₆[14]dieneN₄ ligand
***Monatsh. Chem.*, 2012, 143, 1357-1363.**
74. **A. Rilak, I. Bratsos, E. Zangrando, J. Kljun, I. Turel, Ž. D. Bugarčić and E. Alessio**
Factors that influence the antiproliferative activity of half sandwich Ru^{II}-[9]aneS3 coordination compounds: activation kinetics and interaction with guanine derivatives
***Dalton Trans.*, 2012, 41, 11608-11618.**
73. **M. Arsenijević, M. Milovanović, V. Volarević, D. Čanović, N. Arsenijević, T. Soldatović, S. Jovanović and Ž. D. Bugarčić**
Cytotoxic properties of platinum(IV) and dinuclear platinum(II) complexes and their ligand substitution reactions with guanosine-5'-monophosphate
***Trans. Met. Chem.*, 2012, 37, 481-488.**
72. **M. Djurović, J. Bogojeski, B. Petrović, D. Petrović and Ž. D. Bugarčić**
Ligand substitution reactions of some sterically hindered Pt(II) complexes. The crystal structure of [TL^{tBu}H₂](ClO₄)₂ · 0.5 H₂O
***Polyhedron*, 2012, 41, 70-76.**
71. **A. Djeković, B. Petrović, Ž. D. Bugarčić, R. Puchta and R. van Eldik**
Kinetics and mechanism of the reactions of Au(III) complexes with some biologically relevant molecules
***Dalton. Trans.*, 2012, 41, 3633-3641.**
70. **A. Mijatović, J. Bogojeski, B. Petrović and Ž. D. Bugarčić**
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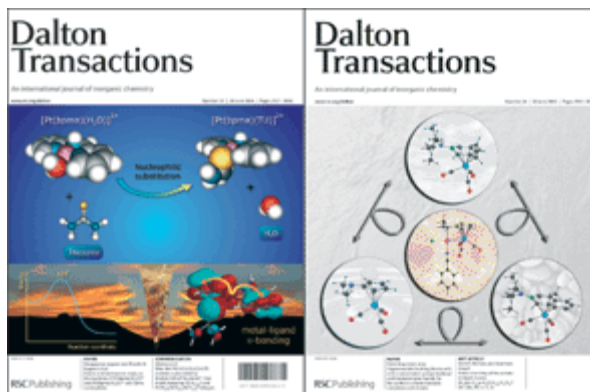
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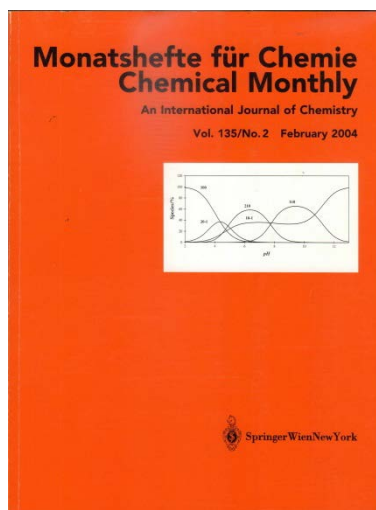
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Техничка решења

Патенти