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Dr Živadin D. Bugarčić redovni profesor

Prezime: Bugarčić
Ime: Živadin
Ime oca: Dragić

Datum rođenja: 17. april 1954.

Mesto rođenja: Kragujevac, Srbija

Adresa: Prirodni-matematički fakultet
Radoja Domanovića 12
34000 Kragujevac, Srbija
Tel: ++ (381) 34 300 262
Fax: ++ (381) 34 335 040
E-mail: bugarcic@kg.ac.rs

Bračno stanje: Oženjen (troje dece)
Nacionalnost: Srbin
Državljanstvo: Srpsko

ŠKOLOVANJE

Osnovna škola: Kragujevac
1961 – 1969.

Srednja škola: Kragujevac
1969 – 1973.

Studije hemije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 1973 – 1978.

Poslediplomske studije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 1978 – 1984.

Doktorske studije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 1984 – 1989.

University of Lund, Chemical Canter,
Lund, Sweden, 1987-1989.

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| <i>Posledoktorske studije:</i> | University of Lund, Chemical Center, Lund, Sweden, 1989-1990. |
| | University of Venice Faculty of Science Department of Chemistry Venice, Italy, 1996-1997 (7 meseci) |
| <i>Boravci na stranim univerzitetima:</i> | |
| <i>Gostujući professor:</i> | University of Erlangen-Nürnberg, Institute for Inorganic Chemistry, Erlangen, Germany 2002. (6 meseci) |
| | University of Barcelona, Faculty of Science, Department of Chemistry Barcelona, Spain 2003. (7 meseci) |
| <i>Samostalni istraživač:</i> | University of Erlangen-Nürnberg, Institute for Inorganic Chemistry, Erlangen, Germany 1998. (2 meseca) 2000. (3 meseca) 2001. (3 meseca) 2004. (3 meseca) 2005. (3 meseca) 2006. (2 meseca) 2007. (2 meseca) 2008. (2 meseca) |
| <i>Predavanja po pozivu:</i> | Na stranim univerzitetima: 9 Na međunarodnim konferencijama kao predavač po pozivu: 5 |
| <i>Članstvo u domaćim i inostranim hemijskim organizacijama:</i> | Član Srpskog hemijskog društva Član Internacionalnog izdavačkog odbora Research & Reviews in BioSciences. |
| <i>Objavljeni naučni radovi:</i> | 63 naučna rada u časopisima sa SCI liste |
| <i>Knjige:</i> | 2 |
| <i>Mentorstvo:</i> | Dve doktorske disertacije Pet magistarskih teza i jedna specijalizacij |

Strani jezici: Engleski i ruski

PROFESIONALNA KARIJERA

Asistent: Prirodno-matematički fakultet
Institut za hemiju
Univerzitet u Kragujevcu
Kragujevac, 1979 – 1990.

Docent: Prirodno-matematički fakultet
Institut za hemiju
Univerzitet u Kragujevcu
Kragujevac, 1990 – 1997.

Vanredni profesor: Prirodno-matematički fakultet
Institut za hemiju
Univerzitet u Kragujevcu
Kragujevac, 1997 – 2003.

Redovni profesor: Prirodno-matematički fakultet
Institut za hemiju
Univerzitet u Kragujevcu
Kragujevac, 2003-

Predmeti koje predaje:
Osnovne studije: Viša Neorganska hemija
Mehanizmi neorganskih reakcija

Doktorske studije:
Hemija vodenih rastvora
Kinetika i mehanizam supstitucionih
reakcija

NAUČNA OBLAST ISTRAŽIVANJA

Koordinaciona i Bioneorganska hemija. Kinetika i mehanizam supstitucionih reakcija kompleksnih jedinjenja. Ispitivanje interakcija kompleksa Pt(II), Pd(II), Pt(IV), Au(III) i Ru(II/III) sa biomolekulima, kao što su fragmenti DNK, peptidi i amino kiseline. Sinteza novih kompleksa Pt(II), Pt(IV) i Ru(II/III) i ispitivanje njihove biološke i antitumorske aktivnosti.

Dr Živadin D. Bugarčić

SPISAK RADOVA OBJAVLJENIH U NAUČNIM ČASOPISIMA

1. **N. B. Milić, Ž. D. Bugarčić and M. Vasić**
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2. **N. B. Milić and Ž. D. Bugarčić**
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Trans. Metal Chem., 1984, 9, 173-176.
3. **I. Gutman, A. Teodorović and Ž. D. Bugarčić**
On some topological formulas for total π -electron energy of benzenoid hydrocarbons
Bull. Soc. Chim., (Beograd) 1984, 49(9), 521-525.
4. **I. Gutman, S. Marković, A. Teodorović and Ž. Bugarčić**
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J. Serb. Chem. Soc., 1986, 51(3), 145-149.
5. **N. B. Milić and Ž. D. Bugarčić**
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Can. J. Chem., 1991, 69, 28-32.
6. **N. B. Milić and Ž. D. Bugarčić**
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J. Serb. Chem. Soc., 1990, 55(12), 723-729.
7. **N. B. Milić, Ž. D. Bugarčić and S. Niketić**
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Gazz. Chim. Ital., 1991, 121, 45-48.
8. **Ž. D. Bugarčić, B. Noren, Å. Oskarson, C. Stalhandske and L. I. Elding**
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Acta Chem. Scand., 1991, 45, 361-366.
9. **S. Elmroth, Ž. D. Bugarčić and L. I. Elding**
High Pressure Stopped-Flow Study of Kinetics and Mechanism for Complex Formation Reactions of Tetraaquapalladium(II) and -platinum(II) with Thioethers in Aqueous Solution
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10. **Ž. D. Bugarčić, K. Löqvist and Å. Oskarsson**
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11. **Ž. D. Bugarčić, K. Löqvist and Å. Oskarsson**
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12. **Ž. D. Bugarčić, Lj. Vasović, Z. M. Bugarčić and V. Leovac**
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J. Serb. Chem. Soc., **1995**, 60(9), 771-777.
13. **Ž. D. Bugarčić**
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14. **Ž. D. Bugarčić, V. Leovac and V. Baltić**
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15. **Ž. D. Bugarčić, B. Mojsilović and V. Leovac**
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17. **Ž. D. Bugarčić, B. V. Djordjević and M. I. Djuran**
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J. Serb. Chem. Soc., **1997**, 62(11), 1031-1036.
18. **M. I. Djuran, S. U. Milinković and Ž. D. Bugarčić**
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19. **G. Annibale, M. Brandolisio, Ž. D. Bugarčić and L. Cattalin**
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20. **Ž. D. Bugarčić and B. V. Djordjević**
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21. **B. V. Petrović, M. I. Djuran and Ž. D. Bugarčić**
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Met.-Based Drugs **1999**, 6, 355-360.
22. **V. Kojić, G. Bogdanović, T. Srdić, D. Jakimov, Ž. D. Bugarčić, M. I. Djuran, D. Četojević-Simin, M. Baltić and V. Leovac**
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23. **Z. M. Bugarčić, S. Novokmet, Ž. Senić and Ž. D. Bugarčić**
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Monatsh. Chem., **2000**, 131, 799-802
24. **R. Karkalić and Ž. D. Bugarčić**
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(terpy = 2,2':6',2''-terpyridine)
Monatsh. Chem., **2000**, 131, 819-824
25. **B. V. Petrović and Ž. D. Bugarčić**
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J. Coord. Chem., **2001**, 53, 35-45
26. **Ž. D. Bugarčić, B. V. Petrović and R. Jelić**
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28. **M. I. Djuran, D. P. Dimitrijević, S. U. Milinković and Ž. D. Bugarčić**
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31. **Ž. D. Bugarčić, M. Shoukry and R. van Eldik**
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J. Chem. Soc. Dalton Trans., **2002**, 3945-2951.
32. **G. Bogdanović, V. Kojić, D. Jakimov, M. I. Djuran, Ž. D. Bugarčić, M. Baltić and V. V. Baltić**
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34. **Ž. D. Bugarčić, F. W. Heinemann and R. Van Eldik**
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35. **Ž. D. Bugarčić, D. Jančić, A. A. Shoukry and M. Shoukry**
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 This manuscript is featured on the front cover of *Monatsh. Chem.* issue of the February 2004!
36. **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

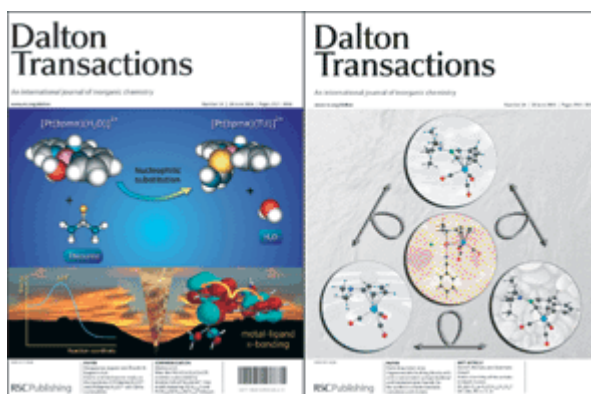
- Inorg. Chim. Acta*, **2004**, 357, 2650-2656.
37. **Ž. D. Bugarčić, T. Soldatović, R. Jelić, B. Algueró and A. Grandas**
Equilibrium, kinetic and HPLC study of the reactions between platinum(II) Complexes and DNA constituents in the presence and absence of glutathione
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38. **V. M. Vasić, M. A. Živanović, M. M. Čakar, J. Z. Savić, J. M. Nedeljković and Ž. D. Bugarčić**
Influence of acidity on the reaction between $[PtCl(dien)]^+$ and l-cysteine or Glutathione in the presence of sodium dodecyl sulfate micelles
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39. **T. Soldatović and Ž. D. Bugarčić**
Study of the reactions between platinum(II) complexes and l-methionine in the presence and absence of 5'-GMP
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40. **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, 544-550.
41. **T. Soldatović, P. Čanović, D. Čanović and Ž. D. Bugarčić**
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Med. Chem., **2005**, 1, 547-561.
42. **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**, 2943-2949.

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Front cover

Dalton Trans., 2006, 2921

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43. **Ž. D. Bugarčić, S. Nandibewoor, M. S. A. Hamza, F. Hainemann and R. van Eldik**
Kinetics and mechanism of the reactions of Pd(II) complexes with azoles and diazines. Crystal structure of [Pd(bpma)(H₂O)](ClO₄)₂ · 2 H₂O
Dalton. Trans., **2006**, 2984-2990.
44. **K. Krinulović, Ž. D. Bugarčić, M. Vrvić, D. Krstić and V. Vasić**
Prevention and recovery of (μ³-diethylentriamino)chloro-palladium(II) chloride induced of Na/K-ATPase by SH containing ligands – l-cysteine and glutathione
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45. **T. Soldatović, V. Vasić and Ž. D. Bugarčić**
Effects of micelles on the complex formation of [PtCl(dien)]⁺ with biologically relevant ligands
Bull. Chem. Soc. Jpn., **2006**, 79(12), 1889-1893.
46. **J. Rosić, B. Petrović, M. I. Djuran and Ž. D. Bugarčić**
Thermodynamic and kinetic studies on reactions of Pt(II) complexes with pyrazole, pyridazine and 1,2,4-triazole
Monatsh. Chem., **2007**, 138, 1-11.
47. **W. Schiessl, R. Puchta, Ž. D. Bugarčić, F. W. Heinemann and R. van Eldik**
Systematic counterion tuning of the solid-state structure of [Pt(thiourea)₄]²⁺
Eur. J. Inorg. Chem., **2007**, 1390-1304.
48. **N. Summa, T. Soldatović, L. Dahlenburg, Ž. D. Bugarčić and R. van Eldik**
The impact of different chelating leaving groups on the substitution kinetics of mononuclear Pt^{II}(1,2-trans-R,R-diaminocyclohexane)(X-Z) complexes
J. Biol. Inorg. Chem., **2007**, 12, 461-475.

49. **D. Petrovi, 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, 15, 4203-4211.
50. **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.
51. **B. Petrović, Ž. D. Bugarčić and R. van Eldik**
Kinetic studies on the reactions of [Pd(dach)(X-Y)] complexes with some DNA Constituents
Dalton Trans., 2008, 807 – 813.
52. **B. Šmit, B. Petrović, S. Sovilj, D. Čanović and 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.
53. **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 and N. Arsenijević**
Effects of cisplatin and other Pt(II) complexes on spontaneous motility of isolated human oviduct
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54. **T. Soldatović, P. Čanović, R. Nikolić, R. Jelić and Ž. D. Bugarčić**
Equilibrium and ¹H NMR kinetic study of the reactions of dichlorido [S-Methyl-L-Cysteine(N,S)]platinum(II) complex with some relevant biomolecules
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55. **T. Soldatović, M. Shoukry, R. Puchta, Ž. D. Bugarčić and R. van Eldik**
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56. **M. Petković, A. Vujačić, J. Schiller, Ž. Bugarčić, J. Savić, V. Vasić**
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57. **D. Vasić, J. Savić, Ž. Bugarčić, N. Tomić, M. Čolović, M. Petković and V. Vasić**
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58. **T. Soldatović, Ž. D. Bugarčić and R. van Eldik**
Influence of the chloride concentration on ligand substitution reactions of [Pt(SMC)Cl₂] with biologically relevant nucleophiles
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59. **A. Vujačić, Ž. D. Bugarčić, J. Schiller, V. Vasić and M. Petković**
Matrix-assisted laser desorption and ionization time-of-flight mass spectrometry of Pt(II) and Pd(II) complexes
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60. **M. Petković, B. Petrović, J. Savić, Ž. D. Bugarčić, J. Dimitrić-Marković, T. Momić and V. Vasić**
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61. **S. Jovanović, B. Petrović and Ž. D. Bugarčić**
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62. **B. Petrović, Ž. D. Bugarčić A. Dees, I. Ivanović-Burmazović, R. Puchta and R. van Eldik**
Reactivity of some biologically relevant ligands toward novel monofunctional platinum(II) and palladium(II) complexes
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63. **J. Rosić, Ž. D. Bugarčić, R. Puchta and R. van Eldik**
Kinetic studies on the reactions of different bifunctional platinum(II) complexes with selected nucleophiles
E. J. Inorg. Chem., 2010, in press

Dr Živadin D. Bugarčić

SPISAK SAOPŠTENJA NA NAUČNIM KONFERENCIJAMA

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VI Sastanak hemičara Hrvatske, Zagreb, 14-16, februar, 1979., Sinopsisi C-1, st. 262.
2. **N. B. Milić i Ž. D. Bugarčić**
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3. **N. B. Milić, Ž. D. Bugarčić and V. Stefanović**
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4. **N. B. Milić, Ž. D. Bugarčić i D. Toskić**
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XXIV Savetovanje hemičara SR Srbije, 18-20 Januar 1982., Beograd, Glasnik hem. društva Beograd, 1982, 47(1-2), 73.
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7. **N. B. Milić and Ž. D. Bugarčić**
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8. **N. B. Milić and Ž. D. Bugarčić**
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