



# Dr Dušanka Radanović

Naučni savetnik



Profesionalno iskustvo    Obласти interesovanja    Projekti    Izabrane publikacije

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**1995** Magistar hemijskih nauka, Prirodno-matematički fakultet, Univerzitet u Kragujevcu  
**1999** Doktor nauka, Hemijski fakultet, Univerzitet Adam Mickiewicz, Poznań, Poljska

**Zvanja:** **1999** Naučni saradnik  
**2004** Viši naučni saradnik  
**2012** Naučni savetnik

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**Profesionalno iskustvo:** **2002 – danas.** IHTM – Centar za hemiju, Univerzitet u Beogradu

**Obласти interesovanja:** Koordinaciona hemija, Kristalografija

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**Najznačajniji projekti:** **Osnovna istraživanja:**

**2011–2014.** "Interakcije prirodnih proizvoda, njihovih derivata i kompleksnih jedinjenja sa proteinima i nukleinskim kiselinama" (O1172055) – Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije.  
**2011-2014.** "Sinteza novih kompleksa metala i ispitivanje njihovih reakcija sa peptidima" (O1172036) – Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije.

**Izabrane publikacije:** **Publikovani radovi:**

1. B. Waržajtis, U. Rychlewska, **D.D. Radanović**, I.M. Stanojević, N.S. Drašković, N.S. Radulović and M. I. Djuran, "Carboxylato-bridged polymeric complexes of chromium(III) with the hexadentate ( $\pm$ )-1,3-pentanediamine-*N,N,N',N'*-tetraacetate ligand carrying different counter ions. Stereospecific formation and crystal structures of  $\text{Na}[\text{Cr}(1,3\text{-pndta})]\cdot\text{H}_2\text{O}$ ,  $\text{K}[\text{Cr}(1,3\text{-pndta})]\cdot\text{H}_2\text{O}$  and  $\text{Ca}[\text{Cr}(1,3\text{-pndta})]_2\cdot 4\text{H}_2\text{O}$ ", *Polyhedron*, **67** (2014) 270-278.
2. N.S. Drašković, **D.D. Radanović**, U. Rychlewska, B. Waržajtis, I.M. Stanojević and M.I. Djuran, "Synthesis and spectral characterization of nickel(II) and copper(II) complexes with the hexadentate ( $\pm$ )-1,3-pentanediamine-*N,N,N',N'*-tetraacetate ligand and its pentadentate derivative: Stereospecific formation and crystal structure of  $[\text{Mg}(\text{H}_2\text{O})_6][\text{Ni}(1,3\text{-pndta})]\cdot 4\text{H}_2\text{O}$ ", *Polyhedron* **43** (2012) 185-193.
3. N. Filipović, T. Todorović, **D. Radanović**, V. Divjaković, R. Marković, I. Pajić and K. Anđelković, "Solid state and solution structures of Cd(II) complexes with two N-heteroaromatic Schiff bases containing ester groups", *Polyhedron*, **31** (2012) 19-28.
4. B. Čobeljić, B. Waržajtis, U. Rychlewska, **D. Radanović**, V. Spasojević, D. Sladić, R. Eshkourfu and K. Anđelković, "Synthesis and structure of a Ni(II) complex with *N',N''*-bis[(1E)-1-(2-quinolyl)methylene]propanedihydrazide: multiple intramolecular CH  $\cdots$   $\pi$  interactions between quinoline and quinolineimine chelate", *J. Coord. Chem.*, **65** (2012) 655-667.
5. U. Rychlewska, B. Waržajtis, **D.D. Radanović**, N.S. Drašković, I.M. Stanojević and M.I. Djuran, "Structural diversification of the coordination mode of divalent metals with 1,3-propanediaminetetraacetate (1,3-pdta): The missing crystal structure of the s-block metal complex  $[\text{Sr}_2(1,3\text{-pdta})(\text{H}_2\text{O})_6]\cdot\text{H}_2\text{O}$ ", *Polyhedron*, **30** (2011) 983-989.
6. S. Bjelogrić, T. Todorović, A. Bacchi, M. Zec, D. Sladić, T. Srdić-Rajić, **D. Radanović**, S. Radulović, G. Pelizzi and K. Anđelković, "Synthesis, structure and characterization of novel Cd(II) and Zn(II) complexes with the condensed product of 2-formylpyridine and selenosemicarbazide. Antiproliferative activity of the synthesized complexes and related selenosemicarbazone complexes", *J. Inorg. Biochem.*, **104** (2010) 673-682.
7. T.R. Todorović, U. Rychlewska, B. Waržajtis, **D.D. Radanović**, N.R. Filipović, I.A. Pajić, D.M. Sladić and K.K. Anđelković, "Synthesis, characterization and antimicrobial activity of Ni(II) and Zn(II) complexes with *N',N''*-bis[(1E)-1-(2-pyridyl)ethylidene]propanedihydrazide. Crystal structures of two highly solvated bimetallic complexes of Ni(II)", *Polyhedron*, **28** (2009) 2397-2402.
8. T.R. Todorović, A. Bacchi, D.M. Sladić, N.M. Todorović, T.T. Božić, **D.D. Radanović**, N.R. Filipović, G. Pelizzi and K.K. Anđelković, "Synthesis, characterization and biological activity evaluation of Pt(II), Pd(II), Co(III) and Ni(II) complexes with N-heteroaromatic selenosemicarbazones", *Inorg. Chim. Acta*, **362** (2009) 3813-3820.

9. **D.D. Radanović**, U. Rychlewska, B. Waržajtis, M.S. Cvijović, M.Dj. Dimitrijević and M.I. Djuran, "Tuning the topologies of Co(II) and Ni(II) complexes with EDTA, 1,3-PDTA and 1,4-BDTA ligands: Synthesis and spectroscopic data of  $[\text{Mg}(\text{H}_2\text{O})_6][\text{Co}(1,4\text{-bdta})]\cdot 3\text{H}_2\text{O}$  and  $[\text{Mg}(\text{H}_2\text{O})_6][\text{Ni}(1,4\text{-bdta})]\cdot 3\text{H}_2\text{O}$  complexes, and the X-ray structure of their chiral crystals", *Polyhedron*, **26** (2007) 4799-4808.
10. U. Rychlewska, B. Waržajtis, D. Cvetić, **D.D. Radanović**, D.M. Gurešić and M.I. Djuran, "Two distinct manganese(II) complexes with hexadentate 1,3-propanediaminetetraacetate ligand: The ability of metal(II) complexes with 1,3-pdta ligand to form solid solutions", *Polyhedron*, **26** (2007) 1717-1724.
11. **D.D. Radanović**, U. Rychlewska, M.I. Djuran, B. Waržajtis, N.S. Drašković and D.M. Gurešić, "Alkaline earth metal complexes of the edta-type with a six-membered diamine chelate ring: crystal structures of  $[\text{Mg}(\text{H}_2\text{O})_6][\text{Mg}(1,3\text{-pdta})]\cdot 2\text{H}_2\text{O}$  and  $[\text{Ca}(\text{H}_2\text{O})_3\text{Ca}(1,3\text{-pdta})(\text{H}_2\text{O})]\cdot 2\text{H}_2\text{O}$ : comparative stereochemistry of edta-type complexes", *Polyhedron*, **23** (2004) 2183-2192.
12. **D.D. Radanović**, U. Rychlewska, M.I. Djuran, N.S. Drašković, M.M. Vasojević, I.M. Hodžić and D.J. Radanović "Simple synthetic method and structural characteristics of (1,3-propanediaminetetraacetato)cobalt(II) complexes: uniform crystal packing in a series of metal(II) complexes with 1,3-propanediaminetetraacetate ligand", *Polyhedron*, **22** (2003) 2745-2753.

#### **Izlaganja po pozivu:**

1. **Dužanka D. Radanović**, "Metal(II) and metal(III) complexes with diaminopolycarboxylate 1,3-pdta-type ligands - A crystallographic perspective", 22<sup>nd</sup> Conference of the Serbian Crystallographic Society, June 11-13, 2015, Smederevo – Plenarno pedavanje.

#### **Udžbenici:**

1. B. Prelesnik, K. Anđelković, **D. Radanović**, T. Todorović, "Zbirka zadataka iz kristalografije i rendgenske strukturne analize", Hemijski fakultet, Beograd, 2007. CIP-Katalogizacija u publikaciji Narodna biblioteka Srbije, Beograd, 548. 7(075.8) (076); ISBN 978-86-7220-029-4.