CURRICULUM VITAE

Dušica Simijonović



Family name (Surname):	Simijonović
First name:	Dušica
Date of birth:	March 18, 1982
Country and place of birth:	Serbia, Jagodina
Nationality:	Serbian
Present citizenship:	Serbia
Home address:	35262 Jagodina, Ivkovački Prnjavor Serbia <i>Phone: +(381) 69 55 44 274</i>
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EDUCATION

Primary School:	Kolare, Serbia 1989 – 1997
Secondary School:	Jagodina, Serbia 1997 – 2001
MSc in Chemistry:	Department of Chemistry Faculty of Science University of Kragujevac Kragujevac, Serbia 2001 - 2007
PhD in Chemistry: (Supervisor: Professor Zorica D. Petrović)	Department of Chemistry Faculty of Science University of Kragujevac Kragujevac, Serbia 2007-2014
PhD thesis title:	Ethanolamines derivatives as ionic liquids and precursors of biologically and catalytically active Pd(II)-complexes
Professional Societies:	Serbian Chemical Society
List of significant publications:	20 Publications (See List of Scientific Publications)
EMPLOYMENT:	
Research Assistant: (Supervisor: Professor Zorica D. Petrović)	Department of Chemistry Faculty of Science

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University of Kragujevac

01. October 2007 –present

Kragujevac, Serbia

WORK/RESEARCH EXPERIENCE

- Phosphine-free Heck reaction: structural characterization of obtained products, and mechanistic study applying different experimental techniques.
- Ionic liquids synthesis and characterization.
- Mannich reaction: structural characterization of obtained products, applying different experimental techniques.
- Palladium(II) and platinum(II) complexes as artificial metallopeptidases experimental mechanistic studies of peptide hydrolysis.
- Radical scavenging activity of compounds (DPPH test and inhibition of LOX).

TECHICAL/RESEARCH SKILLS

Good background in organic and bioorganic chemistry, organic synthesis, NMR and IR spectroscopy, UV-Vis spectrophotometry, chromatography techniques.

AWARDS

Diploma "Vuk Karadžić" for all excellent marks throughout the primary school.

LANGUAGES

(a) Mother tongue: Serbian(b) Other languages: English, Russian - understanding, speaking and writing.

COMPUTER SKILLS

Skilled in the use of:

- 1. The Internet in search and use of pertinent information;
- 2. Microsoft Office (Word, Excel, PowerPoint);
- 3. ChemOffice;
- 4. Photoshop.

LIST OF SCIENTIFIC PUBLICATIONS OF DUŠICA SIMIJONOVIĆ

- 1. Petrović Z.D., Marković S., <u>Simijonović D.</u>, Petrović V., Mechanistic insight into preactivation of a modern palladium catalyst precursor in phosphine-free Heck reactions, *Monatsh. Chem.*, (2009) 140: 371-374.
- Petrovic Z.D., Hadjipavlou-Litina D., Pontiki E., <u>Simijonovic D.</u>, Petrovic V.P., Diethanolamine Pd(II) complexes in bioorganic modeling as model systems of metallopeptidases and soybean lipoxygenase inhibitors, *Bioorg. Chem.*, (2009) 37: 162–166.
- Petrović Z.D., <u>Simijonović D.</u>, Petrović V.P., Marković S., Diethanolamine and *N*,*N*-diethylethanolamine ionic liquids as precatalyst-precursors and reaction media in green Heck reaction protocol *J. Mol. Cat. A.* (2010) 327: 45-50.
- 4. Petrovic Z.D, Petrovic V.P., <u>Simijonovic D.</u>, Markovic S., Mechanistic pathways for oxidative addition of aryl iodides to the low-ligated diethanolamine palladium(0) complex in phosphine-free Heck reactions, *J. Organomet. Chem*, (2009) 694: 3852-3858.
- Petrović Z.D., Marković S., Petrović V.P., <u>Simijonović D.</u>, Triethanolammonium acetate as a multifunctional ionic liquid in the palladium-catalyzed green Heck reaction, *J. Mol. Modl.* (2012) 18:433–440.
- Petrović Z.D., Petrović V.P., <u>Simijonović D.</u>, Marković S., Insight into hydrolytic reaction of *N*-acetylated Lhistidylglycine dipeptide with novel mechlorethamine platinum(II) complex. NMR and DFT study of the hydrolytic reaction, *Dalton Trans*. (2011) 40: 9284–9288.
- Balaban A.T., Gutman I., Marković S., <u>Simijonović D.</u>, Đurdević J.: Local Aromaticity in Benzoand Benzocyclobutadieno-Annelated Phenanthrenes, *Polycycl. Aromat. Comp.*, (2011) 31:339–349.
- Petrović Z.D., Petrović V.P., <u>Simijonović D.</u>, Marković S. Stereoselective homogeneous catalytic arylation of methyl methacrylate: Experimental and computational study, *J. Mol. Cat. A.* (2012) 356: 144–151.
- Petrović Z.D., Čomić Lj., Stevanović O., <u>Simijonović D.</u>, Petrović V.P., Antimicrobial activity of the ionic liquids triethanolamine acetate and diethanolamine chloride, and their corresponding Pd(II) complexes, *J. Mol. Liq.* (2012) 170: 61–65.

- Perić T., Jakovljević V.Lj., Zivković V., Krkeljić J., Petrović Z.D., <u>Simijonović D.</u>, Novokmet S., Djurić D.M., Janković S.M., Toxic Effects of Palladium Compounds on the Isolated Rat Heart, *Medicinal. Chem.*, (2012) 8: 9-13.
- Radojević I., Petrović Z.D., Čomić Lj., <u>Simijonović D.</u>, Petrović V.P., Biological evaluation of mechlorethamine-Pt(II) complex, part II: Antimicrobial screening and LOX study of the complex and its ligand, *Medicinal. Chem.*, (2012), 8(5): 947-952.
- Balaban A.T., Gutman I., Marković S., <u>Simijonović D.</u>, Local aromaticity in benzo- and benzocyclobutadienoannelated anthracenes, *Monatsh. Chem.*, (2011) 142: 797-800.
- Simijonović D., Petrović Z.D., Petrović V.P., Some physico-chemical properties of ethanolamine ionic liquids: Behavior indifferent solvents, *J. Mol. Liq.* (2013) 179: 98–103.
- Petrović V.P., <u>Simijonović D.</u>, Petrović Z.D., Use of diethanolammonium–tetrachloridopalladate(II) complex in bioorganic modelling as artificial metallopeptidase in the reaction with *N*-acetylated *L*-methionylglycine dipeptide. NMR and DFT study of the hydrolytic reaction, *J. Mol. Struct*. (2014) 1060: 38–41.
- Petrović V.P., <u>Simijonović D.</u>, Živanović M.N., Košarić J.V., Petrović Z.D., Marković S., Marković S.D. Vanillic Mannich bases: synthesis and screening of biological activity. Mechanistic insight into the reaction with 4-chloroaniline, *RSC Adv.*, (2014) 4: 24635–24644.
- 16. Petrović Z.D., Đorović J., <u>Simijonović D</u>., Petrović V.P., Marković Z., Experimental and theoretical study of antioxidative properties of some salicylaldehyde and vanillic Schiff bases, *RSC Adv.*, (2015) 5: 24094–24100.
- Petrović V.P., <u>Simijonović D.</u>, Petrović Z.D., Marković S., Formation of a vanillic Mannich base theoretical study, *Chem. Pap.*, (2015) 69: 1244–1252.
- Petrović V.P., <u>Simijonović D.</u>, Novaković S.B., Bogdanović G.A., Marković S., Petrović Z.D., Structural characterisation of some vanillic Mannich bases: Experimental and theoretical study, *J. Mol. Struc.*, (2015) 1098: 34-40.
- Petrović V.P., Živanović M.N., <u>Simijonović D.</u>, Đorović J., Petrović Z.D., Marković S.D.
 Chelate *N*,*O*-palladium(II) complexes: synthesis, characterization and biological activity, *RSC Adv.*, (2015) 5: 86274-86281.

 Marković Z., Đorović J., Petrović Z.D., Petrović V.P., <u>Simijonović D</u>., Investigation of the antioxidant and radical scavenging activities of some phenolic Schiff bases with different free radicals, *J. Mol. Modl.*, DOI 10.1007/s00894-015-2840-9, (2015) 21: 293.