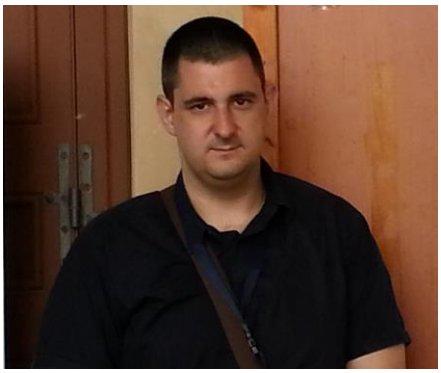
CURRICULUM VITAE

Vladimir Petrović



Family name (Surname):	Petrović
First name:	Vladimir
Date of birth:	January 12, 1984
Present citizenship:	Serbia
Work address:	Charles University in Prague Faculty of Science Department of Organic Chemistry Hlavova 2030/8 128 43 Prague 2 *E-mail:* petrovvl@natur.cuni.cz

EDUCATION

MSc in Chemistry:	Department of Chemistry Faculty of Science University of Kragujevac Kragujevac, Serbia 2003 - 2007
PhD in Chemistry:	Department of Chemistry Faculty of Science University of Kragujevac Kragujevac, Serbia 2007-2013
List of significant publications:	**21** Publications

(See List of Scientific Publications)

EMPLOYMENT:

Research Assistant:	Department of Chemistry
(Supervisor: Professor Zorica D. Petrović)	Faculty of Science
	University of Kragujevac
	Kragujevac, Serbia
	01. October 2007 – 1. April 2013.
Research Associate:	Department of Chemistry
(Supervisor: Professor Zorica D. Petrović)	Faculty of Science
	University of Kragujevac
	Kragujevac, Serbia
	01. October 2007 – 1. April 2013.

WORK/RESEARCH EXPERIENCE

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

TECHICAL/RESEARCH SKILLS

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

AWARDS

Award from the Serbian Chemical Society for extraordinary success during the studies of chemistry.

LANGUAGES

(a) Mother tongue: Serbian

(b) Other languages:

Understanding				**Speaking**				**Writing**	
Listening		Reading		Spoken interaction		Spoken production			
1.	English	1.	English	1.	English	1.	English	1.	English
2.	Russian	2.	Russian	2.	Russian	2.			

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, CorelDraw – graphics related software's.

LIST OF SCIENTIFIC PUBLICATIONS OF VLADIMIR PETROVIĆ

1. Petrovic Z.D, **Petrovic V.P**, Simijonovic D., Markovic S.,
   Mechanistic pathways for oxidative addition of aryl iodides to the low-ligated diethanolamine palladium(0) complex in phosphine-free Heck reactions
   Journal of Organometallic Chemistry, **694** (2009) 3852-3858
2. PetrovićZ.D., SimijonovićD., **PetrovićV.P.**, Marković S.,
   Diethanolamine and *N,N*-diethylethanolamine ionic liquids as precatalyst-precursors and reaction media in green Heck reaction protocol
   Journal of Molecular Catalysis. A: Chemical, **327** (2010) 45-50
3. Petrović Z.D., **Petrović V.P.**, Simijonović D., Marković S.,
   Insight into hydrolytic reaction of N-acetylated L-histidylglycine dipeptide with novel mechlorethamine platinum(II) complex. NMR and DFT study of the hydrolytic reaction
   Dalton Transactions, **40** (2011) 9284-9288
4. Petrović Z. D., Marković S., **Petrović V.P.**, Simijonović D.
   Triethanolammonium acetate as a multifunctional ionic liquid in the palladium-catalyzed green Heck reaction
   Journal of Molecular Modeling, **18** (2012) 433–440
5. Petrović Z.D., Marković S., Simijonović D., **Petrović V**.
   Mechanistic insight into preactivation of a modern palladium catalyst precursor in phosphine-free Heck reactions
   Monatshefte für Chemie, **140** (2009) 371–374
6. Marković S., Petrović Z. D, **Petrović V.**
   DFT study on the preactivation reaction of a palladium catalyst precursor in phosphine free Heck reaction
   Monatshefte für Chemie, **140** (2009) 171–175
7. Petrovic Z.D., Hadjipavlou-Litina D., Pontiki E., Simijonovic D., **Petrovic V.P.**
   DiethanolaminePd(II) complexes in bioorganic modeling as model systems of metallopeptidases and soybean lipoxygenase inhibitors
   Bioorganic Chemistry, **37** (2009) 162-166
8. **Petrović V.P.**, Petrović Z.D., Marković S.
   A new aspect of Heck catalyst formation

Monatshefte für Chemie, **142** (2011) 141–144.

9. Petrović Z. D., **Petrović V. P.**, Simijonović D., Marković S.
   Stereoselective homogeneous catalytic arylation of methyl methacrylate: Experimental and computational study
   Journal of Molecular Catalysis. A: Chemical, **356** (2012) 144-151.
10. Radojević I., Petrović Z.D., Čomić Lj.,Simijonović D., **Petrović V.P.**
    Biological evaluation of mechlorethamine-Pt(II) complex, part II: Antimicrobial screening and LOX study of the complex and its ligand
    Medicinal Chemistry, **8(5)** (2012) 947-952.
11. **Petrović V.P.**, Marković S., Petrović Z.D.
    Mechanistic insight into the formation of cinnamates in phosphine-free Heck reactions
    Monatshefte für Chemie, **143** (2012) 1497–1502.
12. Petrović Z.D., Hadjipavlou-Litina D., **Petrović V.P.**
    New Pd(II)-mechlorethamine complex: Synthesis, NMR study of hydrolytic activity and in vitro evaluation of antiradical property of new complex and its alkylating precursor
    Journal of Moleqular Liquids, **144** (2009) 55-58
13. Petrović Z.D., ČomićLj.,Stevanović O., Simijonović D., **Petrović V.P.**
    Antimicrobial activity of the ionic liquids triethanolamine acetate and diethanolamine chloride, and their corresponding Pd(II) complexes
    Journal of Moleqular Liquids, **170** (2012) 61-65
14. Simijonović D., Petrović Z.D., **Petrović V.P.**
    Some physico-chemical properties of ethanolamine ionic liquids: Behavior in different solvents.
    Journal of Moleqular Liquids, **179** (2013) 98-103
15. Ivan Gutman, Svetlana Jeremic, **Vladimir Petrovic**
    Extending the phenyl-cyclopentadienyl rule
    Indian Journal of Chemistry. Section A **48A** (2009) 658-662
16. Stojković D.LJ., Jevtić V., Radić G.P., Đačić D.S., Ćurčić M.G., Marković S.D., Đinović V.M., **Petrović V.P.**, Trifunović S.R.
    Stereospecific ligands and their complexes. Part XII. Synthesis, characterization and in vitro antiproliferative activity of platinum(IV) complexes with some *O,O*'-dialkyl esters

of (*S,S*)-ethylenediamine-*N,N*'-di-2-propanoic acid against colon cancer (HCT-116) and breast cancer (MDA-MB-231) cell lines

Journal of Molecular Structure, **1062** (2014) 21–28

17. **Petrović V.P.**, Simijonović D., 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

    Journal of Molecular Structure, **1060** (2014) 38–41

18. **Petrović V.P.**, Simijonović D., Živanović M.N., Košarić J.V., Petrović Z.D. Marković S., Snežana M.D.

    Vanillic Mannich bases: synthesis and screening of biological activity. Mechanistic insight into the reaction with 4-chloroaniline

    RSC Advances, **4** (2014) 24635-24644

19. Petrović Z.D., Đorović J., Simijonović D., **Petrović V.P.**, Marković Z.

    Experimental and theoretical study of antioxidative properties of some salicylaldehyde and vanillic Schiff bases

    RSC Advances, **5** (2015) 24094-24100

20. **Petrović V.P.**, Simijonović D., Petrović Z.D., Marković S.

    Formation of a vanillic Mannich base – theoretical study

    Chemical Papers, **69 (9)** (2015) 1244–1252

21. **Petrović V.P.**, Simijonović D., Novaković S.B., Bogdanović G.A., Marković S., Petrović Z.D.

    Structural characterisation of some vanillic Mannich bases: Experimental and theoretical study

    Journal of Molecular Structure, **1098** (2015) 34-40