



Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) **Petronela Maria Petrar**
Address(es) 11, Arany Janos street, Cluj-Napoca, RO-400028
E-mail ppetrar@chem.ubbcluj.ro
Nationality Romanian
Date of birth 29.04.1980

Work experience

Dates February 2008-present
Occupation or position held Junior lecturer
Name and address of employer Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University
Principal subjects/occupational skills covered Teaching position: course in the Chemistry of Nonmetals, seminars and laboratory work in General Chemistry and Computational Chemistry
Research in Organometallic and Computational Chemistry

Education and training

Dates October 2003-october 2007
Title of qualification awarded -PhD in Chemistry
Name and type of organisation providing education and training - Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University/
Laboratoire Hétérochimie Fondamentale et Appliquée, Université Paul Sabatier,
Toulouse, France
Dates -October 2002 - July2003
Title of qualification awarded - Master of Science
Principal subjects/occupational skills covered - Applied Organometallic and Coordination Chemistry
Name and type of organisation providing education and training - Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University
Dates -October 1998- July 2002
Title of qualification awarded - Bachelor's degree in Chemistry
Name and type of organisation providing education and training - Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University

Self-assessment <i>European level (*)</i>	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	C2	Advanced	C2	Advanced	C2	Advanced	C2	Advanced	C2	Advanced
French	C2	Advanced	C2	Advanced	C1	Advanced	C1	Advanced	C1	Advanced

(*) *Common European Framework of Reference for Languages*

Technical skills and competences synthesis and characterization of air-sensitive organometallic compounds

Computer skills and competences use of specialized Chemistry software (Gaussian, Spartan, etc.)

Stays abroad:

- October 2003 - July 2004 : Laboratoire Hétérochimie Fondamentale et Appliquée, Université Paul Sabatier, Toulouse, France
- February 2005 – May 2005: University of Leipzig, Germany
- October 2005 - July 2006 : Laboratoire Hétérochimie Fondamentale et Appliquée, Université Paul Sabatier, Toulouse, France
- July-August 2009 : University of Pecs, Hungary

Published papers

1. A Novel Disiloxanediolato - Derivative of Tin(IV), P.. M. Petrar, G. Cretiu Nemes, I. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, 2004, XLIX(2), 209-216.
2. New halo compounds of silicon and tin, potential precursors of >E=C=P- heteroallenic systems, P. M. Petrar, G. Nemes, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, 2006, LI (1), 77-82.
3. Synthesis of new bromo-stannanes: toward unsaturated tin derivatives, P. M. Petrar, G. Nemes, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, 2006, LI (2), 33-39.
4. 1,3-Digermacyclobutanes with exocyclic CLP and CLPLS double Bonds, P. M. Petrar, G. Nemes, I. Silaghi-Dumitrescu, H. Ranaivonjatovo, H. Gornitzka, J. Escudie, *Chem. Commun.*, 2007, 40, 4149–4151.
5. Synthesis and Characterization of the First Arsanylbis(methylene)phosphorane (Me₃Si)₂C=P(Mes*)=C(Cl)-As(F)Mes*, P. M. Petrar, G. Nemes, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, J. Escudie, H. Gornitzka, H. Ranaivonjatovo, *Rev. Roum. Chim.*, 2007, (1), 45-49.
6. Secondary interactions in heteroallenic system with P=C=E units, G. Nemes, I. Silaghi-Dumitrescu, P. M. Petrar, R. Septelean, L. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, 2007, LII (1), 3-10.
7. Towards the new double-bonded organophosphorus derivative of C=P=C=P type, G. Nemes, R. Şeptelean, P. M. Petrar, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, 2007, LII (4), 91-96.
8. Lower Rim Silyl Substituted Calix[8]Arenes, N. Fleuret, S. Paic, G. Nemes, R. Septelean, P. Petrar, I. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, 2009, 53, 81-87.

9. vic-Dichlorodiphosphopropanes –Synthesis and coordination ability, R. Septelean, G. Nemes, J. Escudie, I. Silaghi-Dumitrescu, H. Ranaivonjatovo, P. Petrar, H. Gornitzka, L. Silaghi-Dumitrescu, N. Saffon, *Eur. J. Inorg. Chem.*, 2009, 628-634.
10. An Insight into the Structure of Model Germaphosphaallenes, P.M. Petrar, G. Nemes, I. Silaghi-Dumitrescu, J. Escudie, H. Ranaivonjatovo, *Mol. Phys.*, 2009, 107, 1161-1167.
11. Narrow-Rim Alkenyl Calix[n]Arene Synthesis and Spectral Characterization, A. Saponar, E.J. Popovici, N. Popovici, E. Bica, G. Nemes, P. Petrar, I. Silaghi-Dumitrescu, *Rev. de Chimie*, 2009, 60, 278-282 .
12. Ascorbate Binding To Globins, F. V. Deac, A. Todea, A. M. Bolfa, P. Podea, P. Petrar, R. Silaghi-Dumitrescu, *Rom. J. Biochem.*, 2009, 46(2), 115-121.
13. Theoretical Aspects of Main Group Multiple Bonded Systems, I.Silaghi-Dumitrescu, P. Petrar, G. Nemes, R. B. King, *Computational Inorganic and Bioinorganic Chemistry*, Edward I. Solomon (Editor), Robert A. Scott (Co-Editor), R Bruce King (Co-Editor), John Wiley & Sons, pp.1-13, 2009. ISBN: 978-0-470-69997-3
14. A Theoretical Approach on the Structure of Arsaallenes -As=C=C< and Arsaphosphaallenes -As=C=P-, P. M. Petrar, G. Nemes, L. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chimia*, 2010, 55(4), 25-36.
15. Exploring the structure of arsaallene ylides – a theoretical approach, P. M. Petrar, G. Nemes, R. Septelean, L. Silaghi-Dumitrescu, J. Escudie, *Rev. Roum. Chim.* , 2010, *in press*.

Oral communications in international conferences:

1. Compounds Containing the >Ge(X)-C(Cl)=P unit: New Promising Building Blocks in Germanium and Phosphorus Chemistry, P. M. Petrar, G. Nemes, I. Silaghi-Dumitrescu, J. Escudie, H. Ranaivonjatovo, H. Gornitzka, *XXII International Conference on Organometallic Chemistry*, July 2006, Zaragoza, Spain.
2. Nouveaux (halogermyle)chlorophosphaalcènes, précurseurs de phosphagerma-allènes et de germacyclobutanes, P. M. Petrar, J. Escudié, H. Ranaivonjatovo, G. Nemes, I. Silaghi-Dumitrescu, *Journée Jeunes Chercheurs* , 14 April 2006, Toulouse, France.
3. Exploring the Structure of Arsaallenes and Arsaphosphaallenes. a Theoretical Approach, P.M. Petrar, G. Nemes, *MOLMOD 2010(Special Edition)*, 28 May 2010, Cluj-Napoca, Romania.