

## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s)

**Cornelia Silvia Păcurariu**

Address(es)

30, Suceava Street, 300391 Timișoara, Romania

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+40-256-403060

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cornelia.pacurariu@upt.ro

Nationality

Romanian

Date of birth

September 20, 1952

Gender

Female

### Professional experience

Dates

2004 - present

Occupation or position held

Professor

Name and address of employer

Politehnica University Timișoara, Faculty of Industrial Chemistry and Environmental Engineering,  
2 Victoriei Sq., 300006 Timișoara, Romania

Main activities and responsibilities

Teaching and research activities in the field of: Chemical kinetics, Applied physical chemistry, Physical chemistry of interfaces, Nanomaterials synthesis, Spectroscopic (UV-Vis, FT-IR) and thermal analysis (DTA, DSC, TG) methods, Environmental protection.

### Education, Degrees and Diplomas

Date

2009

Qualification awarded

PhD coordinator in the field of Chemical Engineering

Name of organisation providing education

Politehnica University Timișoara, Faculty of Industrial Chemistry and Environmental Engineering

Date

1998

Qualification awarded

PhD, Diploma, in the field of Chemical Engineering

Name of organisation providing education

Politehnica University Timișoara, Faculty of Industrial Chemistry and Environmental Engineering

Date

1976

Qualification awarded

Chemical Engineer

Principal subjects/occupational skills covered

Technology of Macromolecular Compounds

Name of organisation providing education

Polytechnic Institute „Traian Vuia” of Timișoara, Faculty of Chemical Engineering

## Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level (\*)

English

French

Understanding		Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production	
C1		C1		B2		B2	
C1		C1		B2		B2	

(\*) Common European Framework of Reference for Languages

## Professional skills and Competences

Publications

Scientific papers published in peer-reviewed ISI journals: Scopus – 80/ Web of Science – 67

Scientific papers published in other journals and proceedings: 46

Representative publications:

- R. Ianoș, E. Muntean, **C. Păcurariu**, R. Lazau, C. Bandas, G. Delinescu, Combustion synthesis of a blue Co-doped zinc aluminate near-infrared reflective pigment, *Dyes Pigments*, vol.142(2017)24-31.
- D-E. Coricovac, EA. Moaca, I. Pinzaru, C. Citu, C. Soica, CV. Mihali, **C. Păcurariu**, VA.Tutelyan, A. Tsatsakis, CA. Dehelean, Biocompatible Colloidal Suspensions Based on Magnetic Iron Oxide Nanoparticles: Synthesis, Characterization and Toxicological Profile, *Frontiers in Pharmacology*, 8(154)2017(open access).
- R. Ianos, E. Muntean, R. Babuta, R. Lazau, **C. Păcurariu**, C. Bandas, Combustion synthesis of pink chromium-doped alumina with excellent near-infrared reflective properties, *Ceram. Inter.*, 43(2)(2017) 2568-2572.
- R. Ianoș, R. Băbuță, **C. Păcurariu**, R. Lazău, R. Istrate, C. Butaciu, Combustion synthesis of ZnAl<sub>2</sub>O<sub>4</sub> powders with tuned surface area, *Ceram. Inter.*, 43(2017)8975-8981.
- **C. Păcurariu**, O. Paska, R. Ianos, S. G. Muntean, Effective removal of methylene blue from aqueous solution using a new magnetic iron oxide nanosorbent prepared by combustion synthesis, *Clean Technol. Environ. Policy*, 18(3) (2016) 705-715.
- R. Ianoș, R. Istrate, **C. Păcurariu**, R. Lazău, Solution combustion synthesis of strontium aluminate, SrAl<sub>2</sub>O<sub>4</sub> powders: single-fuel versus fuel-mixture approach, *Phys.Chem.Chem.Phys.*, 18 (2016) 1150-1157.
- M. Ardit, S. Borcănescu, G. Cruciani, M. Dondi, I.Lazău, **C. Păcurariu**, C. Zanelli, Ni-Ti Codoped Hiconite Ceramic Pigments by Combustion Synthesis: Crystal Structure and Optical Properties, *J. Amer. Ceram. Soc.*, 99 (5) (2016) 1749-1760.
- **C. Păcurariu**, A. E. Moacă, R. Ianoș, O. Marinică, C. V. Mihali, V. Socoliuc, Synthesis and characterization of γ-Fe<sub>2</sub>O<sub>3</sub>/SiO<sub>2</sub> composites as possible candidates for magnetic paper manufacture, *Ceram. Int.*, 41(2015) 1079-1085.
- M. Stoia, R. Istrate, **C. Păcurariu**, Investigation of magnetite nanoparticles stability in air by thermal analysis and FTIR spectroscopy, *J. Therm. Anal. Calorim.*, 125(3) (2014) 1185-1198.
- R. Ianoș, **C. Păcurariu**, G. Mihoc, Magnetite/carbon nanocomposites prepared by an innovative combustion synthesis technique - Excellent adsorbent materials, *Ceram. Int.*, 40 (2014) 13649–13657.
- R. Ianoș, A. Tăculescu (Moacă), **C. Păcurariu**, D. Niznansky, γ-Fe<sub>2</sub>O<sub>3</sub> nanoparticles prepared by combustion synthesis, followed by chemical oxidation of residual carbon with H<sub>2</sub>O<sub>2</sub>, *Mater. Chem. Phys.*, 148 (2014) 705-711.

	<ul style="list-style-type: none"> <li>➤ O. M. Pașka, <b>C. Păcurariu</b>, S. G. Muntean, Kinetic and thermodynamic studies on methylene blue biosorption using corn-husk, RSC Adv., 4 (2014) 62621-62630.</li> <li>➤ <b>C. Păcurariu</b>, G. Mihoc, A. Popa, S.G. Muntean, R. Ianoș, Adsorption of phenol and p-chlorophenol from aqueous solutions on poly (styrene-co-divinylbenzene) functionalized materials, Chem. Eng. J., 222 (2013) 218-227.</li> <li>➤ <b>C. Păcurariu</b>, I. Lazău, Non-isothermal crystallization kinetics of some glass-ceramics with pyroxene structure, J. Non-Cryst Solids, 358(23) (2012) 3332-3337.</li> <li>➤ R. Ianoș, A. Tăculescu, <b>C. Păcurariu</b>, I. Lazău, Solution combustion synthesis and characterization of magnetite, Fe<sub>3</sub>O<sub>4</sub>, nanopowders, J. Amer. Ceram. Soc., 95(7) (2012) 2236-2240.</li> <li>➤ R. Ianoș, R. Lazău, I. Lazău, <b>C. Păcurariu</b>, Chemical oxidation of residual carbon from ZnAl<sub>2</sub>O<sub>4</sub> powders prepared by combustion synthesis, J. Eur. Ceram. Soc., 32(8) (2012) 1605-1611.</li> </ul>
	Patents: 1
	Books: 8
Research grants	Scientific Research Grants finalized:15
Scientometric parameters	Hirsch index, h: Scopus –14 / Web of Science – 13
	Total number of citations: Scopus – 645 / Web of Science – 532
	Total number of citations (self-citations of author excluded): Scopus – 539 / Web of Science – 430
Professional recognition	Mentioned in Who is Who in Thermal Analysis and Calorimetry, Eds: I. M. Szilágyi, G. Liptay, Springer Int. Publish.Switzerland, 2014 <a href="http://www.springer.com/us/book/9783319094854">http://www.springer.com/us/book/9783319094854</a> : researcher index no. 214 C. Păcurariu.
	Editorial board member of: Romanian Journal of Materials <a href="http://solacolu.chim.upb.ro/indexeng.htm">http://solacolu.chim.upb.ro/indexeng.htm</a> , and of Chemical Bulletin of the "POLITEHNICA" University of Timisoara <a href="http://www.chemicalbulletin.ro">www.chemicalbulletin.ro</a>
	Membership in professional bodies: Romanian Chemical Society (1999-present), Romanian Ceramic Society (2000-present)
	Invited reviewer for 9 international ISI ranked journals: International Materials Reviews, Journal of the European Ceramic Society, Journal of the American Ceramic Society, Materials Research Bulletin, Materials Characterisation, Thermochimica Acta, Journal of Thermal Analysis and Calorimetry, Arabian Journal of Chemistry, Journal of Non-Crystalline Solids.
<b>Organizational skills and other competences</b>	Academic Management Experience as: Head of "Applied Chemistry and Engineering of Inorganic Compounds and of Environmental" Department, Faculty of Industrial Chemistry and Environmental Engineering
	Member in the scientific committee of international conferences: 4 <sup>th</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry, 28-31 August, 2017, Chisinau, Moldova, 12 <sup>th</sup> Conference on the Science and Engineering of Oxide Materials, CONSILOX, 16-20 sept., 2016, Sinaia Romania, <a href="http://www.consilox.ro">http://www.consilox.ro</a> , 3 <sup>rd</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry, 25-28 August, 2015, <a href="http://www.ceec-tac.org/conf3/welcome.html">http://www.ceec-tac.org/conf3/welcome.html</a> , Ljubljana, Slovenia, 2 <sup>nd</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry, 27-30 August, 2013, Vilnius, Lithuania, 1 <sup>st</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry, 7-10 September, 2011, Craiova, Romania, etc.
	Partner in Erasmus Bilateral Agreement with Charles University in Prague-2012-present
	Initiator of collaboration with reputed researchers from abroad: Prof. D. Niznansky (Charles University in Prague, Czech Republic), M. Dondi and C. Zanelli (Institute of Science and Technology for Ceramics, Faenza, Italy), M. Ardit and G. Cruciani (Department of Physics and Earth Sciences, University of Ferrara, Italy).

Competences in using thermal analysis (DSC, DTA, TG) and spectroscopic analysis (FT-IR, UV-VIS) I  
and also familiar with using various programs, such as: OriginPro 8, Microsoft Office 2010, MatLab 7,  
Mathcad 14.

Timișoara, November, 06. 2016