

## 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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**E-mail** 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	B2
C1	C1	B2	B2	B2

(\*) Common European Framework of Reference for Languages

## Professional skills and competences

Publications

Scientific papers published in peer-reviewed ISI journals: Scopus – 76/ Web of Science – 73

Scientific papers published in other journals and proceedings: 45

Representative publications:

- 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. Int.*, 43 (2017) 2568–2572.
- M. Stoia, **C. Păcurariu**, E. Muntean, Thermal stability of the solvothermal-synthesized MnFe<sub>2</sub>O<sub>4</sub> nanopowder, *J. Therm. Anal. Calorim.*, 127(1) (2017) 155-162.
- **C. Păcurariu**, I. Lazău, R. Lazău, Kinetic studies of the dehydroxylation and crystallization of raw kaolinite and fluorides-modified kaolinite, *J. Therm. Anal. Calorim.*, 127(1) (2017) 239-246.
- **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 Hibonite Ceramic Pigments by Combustion Synthesis: Crystal Structure and Optical Properties, *J. Amer. Ceram. Soc.*, 99 (5) (2016) 1749-1760.
- 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.
- **C. Păcurariu**, A. E. Moacă, R. Ianoș, O. Marinică, C. V. Mihali, V. Socoliuc, Synthesis and characterization of  $\gamma$ -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.
- 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,  $\gamma$ -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.
- O. M. Pașka, **C. Păcurariu**, S. G. Muntean, Kinetic and thermodynamic studies on methylene blue biosorption using corn-husk, *RSC Adv.*, 4 (2014) 62621-62630.
- **C. Păcurariu**, G. Mihoc, A. Popa, S.G. Muntean, R. Ianos, Adsorption of phenol and p-chlorophenol from aqueous solutions on poly (styrene-co-divinylbenzene) functionalized materials, *Chem. Eng. J.*, 222 (2013) 218-227.
- **C. Păcurariu**, I. Lazau, Non-isothermal crystallization kinetics of some glass-ceramics with pyroxene structure, *J. Non-Cryst Solids*, 358(23) (2012) 3332-3337.

- R. Ianoş, A. Tăculescu, **C. Păcurariu**, 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.
- R. Ianoş, R. Lazău, I. Lazău, **C. Păcurariu**, 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.

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 – 566 / Web of Science – 469

Total number of citations (self-citations of author excluded): Scopus – 472 / Web of Science – 372

Professional recognition

Mentioned in Who is Who in Thermal Analysis and Calorimetry, Eds: I. M. Szilágyi, G. Liptay, Springer Int. Publish.Switzerland, 2014 <http://www.springer.com/us/book/9783319094854>: researcher index no. 214 C. Păcurariu.

Editorial board member of: Romanian Journal of Materials <http://solacolu.chim.upb.ro/indexeng.htm>, and of Chemical Bulletin of the "POLITEHNICA" University of Timisoara [www.chemicalbulletin.ro](http://www.chemicalbulletin.ro)

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, Thermochemica Acta, Journal of Thermal Analysis and Calorimetry, Arabian Journal of Chemistry, Journal of Non-Crystalline Solids.

## Organizational skills and other competences

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: 12<sup>th</sup> Conference on the Science and Engineering of Oxide Materials, CONSILOX, 16-20 sept., 2016, Sinaia Romania, <http://www.consilox.ro>, 3<sup>rd</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry, 25-28 August, 2015, <http://www.ceec-tac.org/conf3/welcome.html>, 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) and also familiar with using various programs, such as: OriginPro 8, Microsoft Office 2010, MatLab 7, Mathcad 14.

Timișoara, April, 24. 2017