

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)

Cornelia Silvia Păcurariu

Address(es)

30, Suceava Street, 300391 Timișoara, Romania

Telephone(s)

Office: +40-256-404144

Mobile: +40-722547518

Fax(es)

+40-256-403060

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 – 71/ Web of Science – 67

Scientific papers published in other journals and proceedings: 44

Representative publications:

- **C. Păcurariu**, O. Paska, R. Ianoș, 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. Istratie, **C. Păcurariu**, R. Lazău, Solution combustion synthesis of strontium aluminate, SrAl₂O₄ 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. Istratie, **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 γ-Fe₂O₃/SiO₂ 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, γ-Fe₂O₃ nanoparticles prepared by combustion synthesis, followed by chemical oxidation of residual carbon with H₂O₂, 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. Ianoș, 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. Lazău, Non-isothermal crystallization kinetics of some glass-ceramics with pyroxene structure, J. Non-Cryst Solids, 358(23) (2012) 3332-3337.
- R. Ianoș, A. Tăculescu, **C. Păcurariu**, I. Lazău, Solution combustion synthesis and characterization of magnetite, Fe₃O₄, nanopowders, J. Amer. Ceram. Soc., 95(7) (2012) 2236-2240.
- R. Ianoș, R. Lazău, I. Lazău, **C. Păcurariu**, Chemical oxidation of residual carbon from ZnAl₂O₄ 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

<p>Scientometric parameters</p>	<p>Hirsch index, h: Scopus –13 / Web of Science – 12</p> <p>Total number of citations: Scopus – 516 / Web of Science – 431</p> <p>Total number of citations (self-citations of author excluded): Scopus – 429 / Web of Science – 337</p>
<p>Professional recognition</p>	<p>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.</p> <p>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</p> <p>Membership in professional bodies: Romanian Chemical Society (1999-present), Romanian Ceramic Society (2000-present)</p> <p>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.</p>
<p>Organizational skills and other competences</p>	<p>Academic Management Experience as: Head of “Applied Chemistry and Engineering of Inorganic Compounds and of Environmental” Department, Faculty of Industrial Chemistry and Environmental Engineering</p> <p>Member in the scientific committee of international conferences: 12th Conference on the Science and Engineering of Oxide Materials, CONSILOX, 16-20 sept., 2016, Sinaia Romania, http://www.consilox.ro, 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 25-28 August, 2015, http://www.ceec-tac.org/conf3/welcome.html, Ljubljana, Slovenia, 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 27-30 August, 2013, Vilnius, Lithuania, 1st Central and Eastern European Conference on Thermal Analysis and Calorimetry, 7-10 September, 2011, Craiova, Romania, etc.</p> <p>Partner in Erasmus Bilateral Agreement with Charles University in Prague-2012-present</p> <p>Initiator of collaboration with reputed researchers from abroad: Prof. D. Nizhansky (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).</p> <p>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.</p>

Timișoara, December, 19. 2016