Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Cornelia Silvia Păcurariu**
Address(es)	[redacted]
Telephone(s)	Office: +40-256-404144 Mobile: [redacted]
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E-mail	cornelia.pacurariu@upt.ro
Nationality	Romanian
Date of birth	[redacted]
Gender	Female

Professional experience

Dates	2004 - present
Occupation or position held	Professor
Name and address of employer	Politehnica University Timişoara, Faculty of Industrial Chemistry and Environmental Engineering, 2 Victoriei Sq., 300006 Timişoara, 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 Timişoara, 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 Timişoara, 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 Timişoara, Faculty of Chemical Engineering

Personal skills and competences

Mother tongue(s): Romanian

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C1		C1		B2		B2		B2	
French	C1		C1		B2		B2		B2	

(*) Common European Framework of Reference for Languages

Professional skills and Competences

Scientific papers published in peer-reviewed ISI journals: Scopus – 93/ Web of Science – 92
Scientific papers published in other journals and proceedings: 45
Representative publications:

Publications

- R. Dumitru, S. Negrea, A. Ianculescu, **C. Păcurariu**, B. Vasile, A. Surdu, F. Manea, Lanthanum Ferrite Ceramic Powders: Synthesis, Characterization and Electrochemical Detection Application, MATERIALS, Volume: 13, Issue: 9 (2020) Article Number: 2061
- M. Stoia, **C. Păcurariu** C. Mihali, I. Mălăescu, C. N. Marin, A. Căpraru, Manganese ferrite-polyaniline hybrid materials: Electrical and magnetic properties, Ceram. Int, 45(2) (2019),2725–2735.
- R. Dumitru, A. Ianculescu, **C. Păcurariu**, L. Lupa, A. Pop, B. Vasile, A. Surdu, F. Manea, BiFeO3-synthesis, characterization and its photocatalytic activity towards doxorubicin degradation from water, Ceram. Int., 45(2),(2019) 2789-2802.
- E. Muntean, M. Stoia, **C. Păcurariu**, Facile synthesis, characterization and magnetic properties of manganese ferrite/carbon composites, Thermochim. Acta, 667,(2018) 122-131.
- R. Ianos, E.-A. Moaca, A. Capraru, R. Lazau, **C. Păcurariu**, Maghemite, gamma-Fe2O3, nanoparticles preparation via carbon-templated solution combustion synthesis, Ceram. Int, 44(12) (2018)14090-14094.
- R. Ianos, R. Lazău, R. Băbuta, E. Muntean, E.-A. Moaca, **C. Păcurariu**, Solution combustion synthesis: a straightforward route for the preparation of chromium-doped lanthanum aluminate, LaAl1-xCrxO3, pink red pigments, Dyes Pigm., 155,(2018) 218-224.
- R. Ianos, **C. Păcurariu**, S. G. Muntean, E. Muntean, M. A. Nistor, D. Niznansky, Combustion synthesis of iron oxide/carbon nanocomposites, efficient adsorbents for anionic and cationic dyes removal from wastewaters, J. Alloys Comp., 741,(2018) 1235-1246.
- 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 MnFe2O4 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. Istratie, **C. Păcurariu**, R. Lazău, Solution combustion synthesis of strontium aluminate, $SrAl_2O_4$ 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. Ianoş, O. Marinică, C. V. Mihali, V. Socoliuc, Synthesis and characterization of γ-Fe_2O_3/SiO_2 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. Ianoş, A. Tăculescu (Moacă), **C. Păcurariu**, D. Niznansky, γ-Fe_2O_3 nanoparticles prepared by combustion synthesis, followed by chemical oxidation of residual carbon with H_2O_2, Mater. Chem. Phys., 148 (2014) 705-711.
- O. M. Paşka, **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.

Patents: 2

Books: 8

Research grants: Scientific Research Grants finalized:15

Scientometric parameters: Hirsch index, h: Scopus –19 / Web of Science – 18

Total number of citations: Scopus – 1246 / Web of Science – 1100

Total number of citations (self-citations of author excluded): Scopus – 1070 / Web of Science – 960

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

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.

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: 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.

Partner in Erasmus Bilateral Agreement with Charles University in Prague-2012-2018

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.

Timişoara, October, 20, 2020