

Curriculum Vitae

Personal details

First name / Surname **Corneliu HAMCIUC**
Address Str. G. Ureche, Nr. 1, Bl. V. Maracineanu, Et.2, Ap.3, 700023-Iasi, Romania
Telephone (+40) 332-444111; (+40) 773 374 476
E-mail chamciuc@icmpp.ro; hamciuc@yahoo.co.uk
Nationality Romanian
Date / place of birth June 7, 1957; Ruginoasa - Iasi, Romania
Gender Male

Education

Sept. 2016: Habilitation certificate, MEN Order no. 5330/29.09.2016; Thesis: Functional polymers with phosphorus- and/or nitrogen-containing rings for advanced applications;
Nov. 1996: Ph.D. in Chemistry, Romanian Academy, "Petru Poni" Institute of Macromolecular Chemistry, Iasi; topic: Heterocyclic polyamides for high performance applications (Advisor: Prof. Ass. Dr. Florin Popescu);
July 1982: B.S. Chemical Engineering "Gh. Asachi" Polytechnic Institute, Faculty of Chemical Technology, Iasi, Department of Macromolecular Compounds Technology;
Two DAAD fellowships (by international projects competition), 2000 and 2004, two months each;
July 1976: "C. Negruzzi" High School, Iasi.

Professional experience

1986-present: "Petru Poni" Institute of Macromolecular Chemistry (ICMPP), Iasi, Polycondensation and Thermostable Polymers Department, Senior Researcher;
Dec. 2014 - present: Scientific researcher I; 2000-2014: Scientific researcher II; 1997-2000: Scientific researcher III; 1990-1997: Scientific researcher; 1986-1990: Chemical Engineer;
Research stages abroad: Germany (1994-2005, Institute of Thin Films Technology and Microsensors from Teltow, total months: 10; Max-Planck Institute of Polymer Research from Mainz, total months: 27; Spain (2012-2013, AIDICO Institute from Novelda-Alicante, total weeks: 6);
Visiting Scientist: Moscow-Russia (1990, 1993, 2006; total weeks: 6), Budapest-Hungary (1995, 1999, 2003; total weeks: 6), Sofia-Bulgaria (2011, 2012, 2013, 2014, 2015, 2016, 2017; total weeks: 7);
Jan. - Apr. 1986: Plant of Synthetic Fibres - Iasi, Romania;
Oct. 1982 - Dec. 1985: Plant of Synthetic Fibres - Vaslui, Romania.

Present position

Jan. 2015 - present: Head of Polycondensation and Thermostable Polymers Department, ICMPP; PhD promoter.

Publications

168 scientific articles in national and international journals;
34 scientific articles in volumes of national and international conferences;

6 books in Romania;
6 chapters in different books;
11 patents;
Over 80 presentations (lectures, oral communications or posters) in scientific meetings, symposia or conferences, in Romania and abroad;
12 other applicative research reports (during 1986-1990).

Involving in research projects

- 2 National Projects by competition (as *director/responsible*);
-10 National projects by competition (as team-member).

Scientometrics indicators

Hirsch index, $h=21$; total number of citations, without self-citations: 1091 (according to Web of Science).

Awards and Memberships

- Diploma and medal at Innovation National Exhibition CHIM-INVENT 2013, Iasi, Romania;
- Diploma awarded by the journal Materiale Plastice (Bucharest), 2010;
- Gold medal at the International Exhibition of Inventions, Inventika 2009, Bucharest, Romania;
- Diploma of Excellence in Research, awarded by the Romanian Government, 2000;
- The Romanian Academy Prize for Chemistry, "Nicolae Teclu", 1999;
- Prize I at the Symposium „Linear and nonlinear polyelectrolytes”, Iasi, Sept. 1999;
- Member of the Romanian Chemical Society (since 2000).

Research interests

Phosphorus-containing polymers; Multifunctional heterocyclic polymers and copolymers; Polyimide/polydimethylsiloxane copolymers; Fluorinated and silicon-containing polymers; Polymers containing amino or sulfonic groups; Radioprotective polymers; Organic/inorganic hybrid materials; Polymer blends and composites.

Technical skills and competences

- Polycondensation and polymerization reactions;
- Chemical modification of polymers;
- Sol-gel technique;
- Synthesis/characterization of monomers/polymers by various methods;
- Processing of the polymers as free standing films and coatings;
- Preparation and study of composite and nanocomposite polymer materials.

Language

Mother tongue: Romanian; other languages: English, Russian

Organisational skills/competences

Coordination of the scientific activities for a research team (since 2007) and Head of Polycondensation and Thermostable Polymers Laboratory (since 2015); Project management.

Referee for the journals

Polymer Bulletin, European Polymer Journal, Polymer, Polymer International, Journal of Materials Science, Macromolecular Research, Journal of Applied Polymer Science, Composites Part B, High Performance Polymers, Polymer Engineering & Science, Journal of Industrial & Engineering Chemistry, Revue

Roumaine de Chimie, and other.

International collaborations

International collaborations with Max-Planck Institute for Polymer Research, Mainz-Germany; Technical University of Lodz, Poland; Institute of Thin Film Technology and Microsensors, Teltow-Germany (team-member);

Interacademic cooperation with Institute of Mineralogy and Crystallography, and Institute of Catalysis, Sofia-Bulgaria (team-leader); Institute of Element Organic Compounds, Moscow-Russia, and Central Institute of Chemical Research, Budapest-Hungary (team-member).

Training potentiality

To supervise PhD theses in multifunctional heterocyclic polymers, phosphorus-containing polymers, flame-resistant polymer materials, polymer composites membranes, polymer materials having low or high dielectric constant (flexible low-k polymer films for electronic circuits, high-k polymeric materials for capacitors or actuators).

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