

Curriculum Vitae

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Education and training

- 1986–1991 – Chemical engineer, Polytechnic Institute of Iasi, Faculty of Chemical Engineering, Section Technology of Pulp, Paper and Artificial Fibers
- 2003–2009 – Doctor in chemistry, "Petru Poni" Institute of Macromolecular Chemistry (PPIMC) of Romanian Academy, thesis "*Specific interactions in multicomponent systems based on natural or synthetic cationic polyelectrolytes*", scientific coordination Dr. E. S. Dragan
- 2010–2013 – Postdoctoral scholar, Project *European Social Fund - Postdoctoral Program Cristofor I. Simionescu*, research field - biomaterials, scientific subfield - nanostructured nano and biomaterials, funded individual project "*New nanostructured architecture of the polymers obtained by self-assembly of synthetic and/or natural, with biomedical applications*"

Habilitation

- 2016 – Romanian Academy, thesis "*Bioinspired crystal growth through polymeric additives and templates. From basic research to application*", OM 4832/11.08.2016
- September 2016 - Member on the „School for advanced studies of the Romanian Academy” (SCOSAAR), as PhD thesis supervisor in PPIMC

Work experience

- PPIMC: 2001–2002, Research assistant trainee; 2002–2008, Research assistant; 2008–2010, Scientific researcher; 2010–2015, Senior researcher III; 2016 - present - Senior researcher II
- **Scientific director** of PPIMC (from February 2019)
- **Head of Laboratory of Functional Polymers** (from January 2018)
- **Member of the Scientific Council** of PPIMC (from March 2015)
- **Head of the Commission** for promoting the image and increasing the visibility of the institute (from March 2015)
- **Group leader - Nanostructured composite materials based on linear and cross-linked ionic polymers**

Research stages in European institutes

- *Leibniz Institute of Polymer Research*, Dresden, Germany (18.10 – 17.11.2003, 15.05 – 13.10.2006, 01.02 – 02.03.2011, 30.01 – 29.02.2012, 23.07 – 24.08.2012, 26.11 – 05.12.2012, 01.07 – 31.07.2013, 03.08 – 31.08. 2015, 23.11.2015 - 04.12.2015, 11.09 – 01.10. 2016, 06.05 – 20.05.2017, 22-30.11.2018, 2019)
- *Institute of Polymers of Bulgarian Academy*, Sofia, Bulgaria (23.07 – 29.07.2007, 12.11 – 30.11.2007)
- *Institute of Theoretical and Physical Chemistry of the National Hellenic Research Foundation*, Athens, Greece (01 – 15.10.2012, 12.07 – 22.07. 2016).

Domains of competence

- **Main fields of research:** *Complex multicomponent systems based on natural and synthetic polyions (synthetic pathway, characterization, application)*. Highly specialized in synthesis and characterization of micro and nanoparticles and microcapsules obtained from synthetic and natural polymers and organic/inorganic composites. Applications of synthesized smart materials (pH and/or ionic strength sensitive) as controlled drug delivery cargoes or as specialized sorbents (selective, reusable) for organic (drugs, dyes) or inorganic (heavy metal ions) compounds.

Scientific activity

- **Publications:** **4 edited books**, co-author of **a book**, **6 book chapters**, **83 articles** published in international peer-reviewed journals (out of which **40 as main author**, **55 in ISI ranked and international peer-reviewed journals**), **15 in scientific volumes**, **two patents**
- **Research team member in 17 grants/projects**; coordinator for 3 national and 3 international projects
- **Hirsch Index** - 13 (WoS), 14 (Scopus), 16 (Scholar), more than 440 citations
- **Scientific meeting:** more than **140 presentations** (lectures by invitation in visited institutes, invited/plenary/keynote lectures, oral and posters) at national/international scientific meetings
- **"Costin D. Nenitescu" Prize of the Romanian Academy** for the papers in the field "*Composite materials based on calcium carbonate and pH-sensitive polyelectrolytes*" published in 2012
- Researcher ID: <http://www.researcherid.com/rid/B-9763-2012>

Member of professional groups

- Member of *Romanian Chemical Society* (since 2004)

Specializations and qualifications

- **Theoretical training:** *Macromolecular chemistry at the border between classic and modern. Polymeric biomaterials* (prof. G. David), *Cell biology: structure –function correlation* (Dr. D. Popov), *Farmacology - Biocompatibility* (Prof. Dr. X. Patras), *Natural polymers with*

- biomedical applications* (Prof. V. Popa), *Biodegradable materials* (Prof M. Kowalczuk), *Supramolecular chemistry. Selfassembly and applications in biomedical field* (Prof. G. David).
- **Summer schools:** *Bioactive/biocompatible polymeric materials* (Zabrze, Poland), *Tendencies in synthesis and characterization of advanced materials for applications in biology and medicine* (Timisoara, Romania), *Biomaterials* (ESAO Educational School, Krems, Austria), *Green Chemistry* (Georg-August University, Gottingen, Germany).

Other activities

- **Teaching activities:** *Ethics and academic integrity*, PhD students of Iasi Branch of Romanian Academy (from 2019)
- **Training tutor for students in PPIMC:** 2014-2017, students and master students, "Al. I. Cuza" University of Iasi, Faculty of Chemistry, under the Project "*Facility in labor insertion of the future chemistry graduates*" –theoretical and practical training on macromolecular chemistry – materials synthesis, purification and characterization, activity coordination, periodic and final evaluation.
- **Member of the scientific/organizing committee of scientific meetings:** 11th Conference on Colloid and Surface Chemistry, 2013; XI^{ème} Colloque Franco-Roumain sur les Polymères”, 2014; 6th International Conference “Biomaterials, Tissue Engineering & Medical Devices” BiomMedD’2014; 12th Conference on Colloid and Surface Chemistry, 2016; 3rd International Conference Analytical Chemistry, ROICAC’2016; 4th International Conference Analytical Chemistry, ROICAC’2018.
- **Peer-review activity for national** (UEFISCDI) **and international** (H2020-WIDESPREAD-Twinning, NSC-Poland, OTCA-Hungary) programs/projects and journals (~20 revised/year)