

Dumitru-Mircea VULUGA

CONTACT INFORMATIONS

Splaiul Independenței 202B,
060023 Bucharest, Romania

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COMPETENCIES

- Digital skills
- Project management skills
- Analytical skills
- Sense of initiative

LANGUAGES

romanian: native

french:

Experienced

english:

Experienced

PROFESSIONAL EXPERIENCE

Deputy Director 06/2022 - Present
"Costin D. Nenițescu" Institute of Organic and Supramolecular Chemistry – Bucharest

Senior researcher I 01/2014 - Present
"Costin D. Nenițescu" Institute of Organic and Supramolecular Chemistry of the Romanian Academy – Bucharest
- Coordinator of the Organic and Hybrid Materials Group

Acting Director 07/2019 - 05/2023
"Costin D. Nenițescu" Center of Organic Chemistry of the Romanian Academy – Bucharest

Deputy Director 06/2010 - 06/2022
"Costin D. Nenițescu" Center of Organic Chemistry of the Romanian Academy – Bucharest

Senior researcher II 06/2000 - 06/2014
"Costin D. Nenițescu" Center of Organic Chemistry of the Romanian Academy – Bucharest

Senior researcher III 01/1990 - 01/2000
ICECHIM Bucharest – Bucharest

Researcher 01/1982 - 01/1990
ICECHIM Bucharest – Bucharest

Trainee Engineer 01/1981 - 01/1982
Danubiana Tire Plant – Popești-Leordeni

EDUCATION

PhD in Engineering: Chemistry and Technology of Macromolecular Compounds, 01/1999
« Politehnica » University of Bucharest – Bucharest

Chemical Engineer (Master's/DEA equivalent): Technology of Macromolecular Compounds, 06/1981
Faculty of Chemical Technology, "Gheorghe Gheorghiu-Dej" Polytechnic Institute – Bucharest

Baccalaureate, 06/1975
Mihai Viteazul High School – Bucharest

INTERESTS

- Ionic ring-opening and vinyl polymerization; radical and controlled radical polymerization; synthesis of specialty-functionalized monomers derived from vinyl monomers, dienes, cyclic acetals, 2-substituted-2-oxazolines, etc.;
- Polymer-analogous reactions; synthetic polymeric materials, organic-inorganic hybrids, or conjugates of synthetic polymers with natural products; modification of natural polysaccharide and/or polypeptide substrates;
- Smart polymer composite materials for packaging; polymeric materials or composites for nonlinear optics applications;
- Characterization of organic compounds, polymers, and organic materials using various techniques; specialized analytical methods and advanced study of the physical properties of organic materials..

ACHIEVEMENTS

- ***Completed research projects:*** over 40; coordinator of 10 national projects; coordinator of the Romanian team in 2 Eureka projects (E!2503, E!3100); partner lead in over 20 projects; team member in approximately 10 projects (including 3 European ones).
- ***Technologies:*** 12, developed to various stages up to industrial pilot scale.
- ***Experimental pilot plants:*** 4 – synthesis of 1,3,5-trioxane/dioxolane (1982–1994), synthesis of polyoxymethylene via a batch precipitation process (1982–1995), synthesis of polyoxymethylene via a continuous bulk process (1998–2002), and synthesis of hydrazine via a chlorine-free process (2001–2002); all implemented at Viromet S.A.
- ***Industrial technology development:*** 1 – emulsion polyvinyl acetate (industrial pilot scale and patenting of new processes), at C.Ch. Craiova-Doljchim, during 1988–1991.

PUBLICATIONS AND VISIBILITY

Papers:Web of Science (All-DB) 70, citations 964 (848 without self-citations), h-index 20; Scopus 76, citations 1000 (877 without self-citations), h-index 21,

Identifiers: ORCID: 0000-0002-1798-5999;
ResearcherID: D-4189-2013,
Scopus Author ID: 6506937343.

Patents: 2 Romanian.

Books: 2, Ars Docendi Publishing House.

Member of the editorial board of the journal *Materiale Plastice*,

Reviewer for WoS/Clarivate-indexed journals: *Macromolecules*, *RSC-Advances*, *RSC-J.Mater.Chem.(B&C)*, *RSC-Nanoscale*, *RSC-New Journal of Chemistry*, *Materials Chemistry & Physics*, *Polym.Adv.Tech.*, *Polym.Bull.*, *Mol.Cryst.& Liq.Cryst.*, *Mat.Plast.*, *Rev.Chim.*