

Dr. Radu - Dan RUSU

Researcher, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

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Professional experience

- ❑ Researcher, "Petru Poni" Institute of Macromolecular Chemistry, Romanian Academy, Iasi (ICMPP), since September 2018
- ❑ Junior Researcher, ICMPP, January 2014 - August 2018
- ❑ Research Assistant, ICMPP, November 2007 - December 2013
- ❑ Teacher, "Trinitas" School of Arts and Crafts, Targu-Frumos, Iasi, September 2006 - June 2007

Education and training

- ❑ Postdoctoral Sciex Fellowship, ETH Zürich, Switzerland, May 2012 - May 2013
 - Title: "Denpol: Structure and properties of dendronized polymers with active backbones"
 - Postdoc Supervisor: Prof. A. D. Schlüter
 - Research themes: Suzuki polycondensation: mechanistic insights; synthesis and investigation of high molar mass polyfluorenes with pendant, flexible polar groups; fluorene-based oligomeric libraries
- ❑ PhD Degree in Chemistry, ICMPP, October 2011
 - Title: "New polymers and copolymers containing 1,3,4-oxadiazole rings for advanced materials"; PhD Supervisor: Dr. Maria Bruma
 - Research themes: novel heterocyclic monomers and polymers (polyoxadiazoles, polyamides, polyimides); correlations between macromolecular architecture and morphological, electrical, mechanical, thermal and optical features; innovative materials for organic electronics; self-organized, nanostructured polymers
- ❑ Master Degree in Chemistry and Biochemistry of Heterocyclic Compounds, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Romania, 2008
- ❑ Bachelor of Chemistry, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Romania, 2006
- ❑ Short scientific stages at Center for Polymers and Carbon Materials of the Polish Academy of Science, Zabrze, Poland 2008, 2010, 2011 (two weeks each)

Research interests

- Application-driven macromolecular architectures
- Hetero/aromatic macromolecular systems for high performance applications
- Polymer-based organic electronics
- Advanced polymeric materials for biomedical applications
- Chemistry of (classic and Suzuki) polycondensation polymers
- Polymer processing (especially in thin films and coatings)
- Hyperbranched and nanostructured polymeric materials

Scientific contribution. Scientometric indicators

- 30** peer-reviewed articles in ISI-indexed journals (one on the cover of *Microscopy and Microanalysis*) and **2** peer-reviewed articles in BDI journals
- 15** peer-reviewed proceedings (**8** ISI indexed)
- 6** book chapters (1 ISI indexed; **4** in English)
- 3** books (in Romanian) as editor
- 1** national (OSIM) patent application
- 51** presentations (**8** plenary conferences, **23** oral presentations, **20** posters) at scientific events, mostly international
- H-index: 11; 317** citations (**247** citations, **170** citing articles w/o self-citations) average citations per item: **8.34** (Web of Science, May 2021)

Positions of responsibility and awards

- Project leader/director of 2 scientific projects granted by competition
- Coordinator of 2 contracts within a Transfer of knowledge project
- Team member of **7** research projects
- Supervisor of an ETH Master student (fluorene oligomeric libraries)
- Mentor for bachelor students' research stages (2016-2020, \approx 7 students/2 weeks/year)
- Reviewer of **8** scientific papers
- Member of the organizing committee of **3** scientific meetings
- Excellence in Education Award, International Education Festival, Iasi, 2013

Brainmap ID: U-1700-031Y-7052

Web of Science ResearcherID: C-5104-2012

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