## Dr. Radu - Dan RUSU

Researcher, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania radu.rusu@icmpp.ro

Professional experience

	Researcher, "Petru Poni" Institute of Macromolecular Chemistry, Romanian Academy, las (ICMPP), since September 2018
	<u>Junior Researcher</u> , ICMPP, January 2014 - August 2018
	Research Assistant, Polycondensation Department, ICMPP, November 2007 3 - December 2013
	<u>Teacher</u> , "Trinitas" School of Arts and Crafts, Targu-Frumos, Iasi, September 2006 - June 2007
Education and training	
	<ul> <li>Postdoctoral Sciex Fellowship, ETH Zürich, Switzerland, May 2012 - May 2013</li> <li>Title: "Denpol: Structure and properties of dendronized polymers with active backbones"</li> <li>Postdoc Supervisor: Prof. A. D. Schlüter</li> <li>Research themes: Suzuki polycondensation: mechanistic insights; synthesis and investigation of high molar mass, polar groups-decorated polyfluorenes; fluorene-based oligomeric libraries</li> </ul>
	<ul> <li>PhD Degree in Chemistry, ICMPP, October 2011</li> <li>Title: "New polymers and copolymers containing 1,3,4-oxadiazole rings for advanced materials"; PhD Supervisor: Dr. Maria Bruma</li> <li>Research themes: new heterocyclic monomers and polymers: polyoxadiazoles, polyamides polyimides; morphological, electrical, mechanical, thermal and optical investigation of polymeric materials for organic electronics; self-organized, nanostructured polymers</li> </ul>
	<u>Master Degree</u> in Chemistry and Biochemistry of Heterocyclic Compounds, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Romania, 2008

## Research skills and competences

☐ Bachelor of Chemistry, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Romania, 2006

Science, Zabrze, Poland 2008, 2010, 2011 (two weeks each)

☐ Short scientific stages at Center for Polymers and Carbon Materials of the Polish Academy of

Application-driven polymeric architectures
Organic and polymer design, synthesis and investigation
Polymer processing (thin films and coatings)
Structure-properties relationship in high performance polymers
Physico-chemical characterization of polymeric materials by FTIR, NMR, GPC, UV-Vis, PL, TGA
DSC, BDS, etc.

## Research interests ☐ Heterocyclic & aromatic macromolecular architectures for high performance applications ☐ Photo- and electro-optical properties of polymers ☐ Polymer-based organic electronics ☐ Chemistry of (classic and Suzuki) polycondensation polymers ☐ Polymer processing (especially in thin films and coatings) ☐ Self-organized and nanostructured polymeric materials Scientific contribution. Scientometric indicators □ 27 peer-reviewed articles in ISI indexed journals (one on the cover of Microscopy and Microanalysis), 8 ISI proceedings, 1 ISI book chapter, and 1 article in a BDI journal ☐ 15 peer-reviewed proceedings (8 ISI indexed) Co-author of 5 book chapters (1 ISI indexed; 3 in English) ☐ Co-editor of 3 books (in Romanian) ☐ 1 national (OSIM) patent application ☐ Author or co-author of more than 45 presentations (8 plenary conferences, 21 oral presentations, 19 posters) at scientific events, mostly international ☐ H-index: 10; more than 260 citations (202 citations and 134 citing articles without selfcitations) average citations per item: 7.36, (according to Web of Science, March 2020) Positions of responsibility and awards ☐ Coordinator/responsible of 3 scientific projects granted by competition ☐ Team member of 5 research projects ☐ Member of the organizing committee of 3 scientific meetings Supervision of a Master student at ETH in a project concerning fluorene oligomeric libraries

☐ Mentor in the research stages of bachelor students (since 2016, 7 - 8 students/year, at least 2

<u>Excellence in Education Award,</u>

☐ Reviewer of 5 scientific papers

☐ Excellence in Education Award, International Education Festival, Iasi, 2013

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weeks/year)