

Radu - Dan RUSU

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Education and training

● **Postdoctoral** Sciex Fellowship, ETH Zürich, Switzerland (2012–2013, Mentor: Prof. A. D. Schlüter) ● **PhD** in Chemistry, ICMPP (2011, Supervisor: Dr. Maria Bruma) ● **Master** Degree in Chemistry and Biochemistry of Heterocyclic Compounds, A. I. Cuza University of Iasi, Romania (2008) ● **scientific stages** at Center for Polymers and Carbon Materials of the Polish Academy of Science, Zabrze, Poland (2008, 2010, 2011, 2022)

Research interests and competences

Application-driven development of heteroaromatic macromolecular architectures and materials therefrom:

● synthesis and chemistry of linear and hyperbranched polymer frameworks (imides, amides, fluorenes, oxadiazoles, triphenylamines, a.o.) prepared by classic or Suzuki polycondensation ● polymer processing (films, coatings, blends, composites) ● post-polymerization modifications (UV, plasma, microwave) ● advancement (from design to prototyping) of polymer-based materials with tailored properties ● high performance applications ● plastic electronics ● biomedical and environmental applications

Scientific output

● **42** Web of Science (WoS) items: **33** articles (**15** as first and/or corresponding author; one on the cover of *Microscopy and Microanalysis*), **8** proceedings, **1** book chapter ● **7** peer-reviewed proceedings ● **5** book chapters ● **3** books as editor ● **3** national patent application ● more than **50** presentations (**8** plenary conferences) at international scientific events ● project leader for **1** national research project ● project coordinator for **2** research contracts (European Structural Funds) with private partners ● team member of **9** research projects (**2** EU, **7** national)

Scientometric indicators

● H-index: **14** (WoS), **13** (Scopus), **15** (Google Scholar) ● Citations/without self: **504/420** (WoS), **530/449** (Scopus) ● Citing articles/without self: **356/325** (WoS), **379/349** (Scopus) ● Average citations per item: **12** (WoS), **12.6** (WoS)

Academic activities

● reviewer of **15** articles (e.g. *Advanced Functional Materials*, *Journal of Materials Science*, *Advanced Materials Interfaces*, *Polymers*) (since 2015) ● member of the scientific or organizing committee of **4** international scientific meetings (since 2016) ● project evaluator for **6** international project proposals (National Science Centre, Poland) (since 2023) ● mentor for **2** PhD students from ICMPP (since 2019) ● yearly courses with PhD students from ICMPP (Macromolecular Chemistry 101 + Polymer Physics 101) (2019–2013) ● mentor for **1** M.Sc. student from ETH Zürich, Switzerland (2012–2013) ● mentor for B.Sc. students' research stages at ICMPP (avg.: **10** students/2 weeks/year) (since 2016) ● member of various ICMPP committees (since 2015) ● research- or institution-related interviews at public (national/regional) television and radio (since 2014)

Scientific profile details

● WoS ResearcherID: C-5104-2012 ● ORCID ID: 0000-0002-7693-5270 ● Brainmap ID: U-1700-031Y-7052