

CURRICULUM VITAE

PERSONAL INFORMATION

First name/Surname: **Maria Valentina Dinu**

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EDUCATION AND TRAINING: **2014 – 2015 Department of Chemistry, University of Basel, Switzerland, PostDoc Fellow, Research theme:** • Polymer-filled nanoreactors as tools for investigation of enzymatic behavior in crowded environments; **2010 – 2013 “Petru Poni” Institute of Macromolecular Chemistry (PPIMC) of Romanian Academy, Postdoctoral Fellow, European Social Fund – “Cristofor I. Simionescu” Postdoctoral Fellowship Programme, Research themes:** • Macroporous hydrogels with controlled architecture by cryogelation; • Semi-interpenetrating polymer network cryogels based on various polysaccharides (dextran, dextran sulfate, chitosan or alginate); • Loading and controlled release of bioactive compounds in/from the semi-IPN cryogels; **2003 – 2009 PPIMC, PhD in Macromolecular Chemistry, PhD thesis: *Cross-linked ionic copolymers and hybrids. Synthesis and properties*, Research themes:** Chelating ion exchange resins based on cross-linked copolymers; Ionic organic-inorganic hybrids; Metal binding properties of chelating resins and hybrids; **2000 – 2002 Faculty of Chemistry, "Al. I. Cuza" University of Iasi, Master Degree in Organic Chemistry and Physics; 1995 – 1999 Faculty of Chemistry, "Al. I. Cuza" University of Iasi, Bachelor's Degree in Chemistry.**

HABILITATION: **2020 – Romanian Academy, thesis "*Single- and multicomponent polymeric systems with controlled 3D architectures*", OM 3423/03.03.2021; Member of the “School for advanced studies of the Romanian Academy” as PhD thesis supervisor in PPIMC.**

WORK EXPERIENCE: **1999 – 2001 Professor of Chemistry at "Gr. Ghica V." High School, Dorohoi, Botosani; 2001 – 2002 Trainee Research Assistant; 2002 – 2008 Research Assistant; 2008 – 2010 Scientific Researcher; 2010 – 2015 Senior Scientist III; 2015 – to date Senior Scientist II at PPIMC, Department of Functional Polymers, Iasi.**

Since January 2021 – **Group Leader** – *Multifunctional polymer systems with controlled 3D architecture: synthesis and potential applications* – PPIMC, Department of Functional Polymers.

INVITED SCIENTIST AT UNIVERSITIES AND INSTITUTES FROM ABROAD –

Istanbul Technical University, Istanbul, Turkey (2006, 2007, 2010), Wrocław University of Technology, Wrocław, Poland (2007, 2011), Leibniz Institute of Polymer Research, Dresden, Germany (2011), Institute of Macromolecular Chemistry, Prague, Czech Republic (2012, two times), University of Basel, Basel, Switzerland (2012, 2014, 2015).

EXPERTISE on single- and multicomponent cross-linked systems based on natural or synthetic polymers which are structured and organized into complex architectures, as follows:

- **Hydrogels/cryogels** prepared by conventional methods, ice-templating (cryogelation) and/or leaching techniques with applications in environmental protection (removal of heavy metal ions, dyes, pesticides), medicine (drug delivery, tissue engineering), and food industry;
- **Micro-/nanocompartments** entrapping enzymes or antioxidants as catalytic tools for environmental, biomedical or food applications;
- **Ion exchangers** and **organic-inorganic composites as sorbents** for the removal of contaminants from industrial wastewaters.

SCIENTOMETRIC INDICATORS: co-author of **1 book**, **10 book chapters**, **78 scientific papers** (out of which **58 in ISI ranked journals**), **total impact factor (2020) > 325**, participation at scientific meetings > **120 presentations**; **1 Patent (2013)** and **2 Patent Applications (2021)**.

Total number of citations (without self-citations) – **1557** – Web of Science Core Collection;

Hirsch Index – **26** – Web of Science Core Collection

PROJECTS: **Project Manager** for **3** Research Projects (PN-III-P1-1.1-TE-2016-1697; PN-III-P1-1.1-MC-2018-1398; PN-III-P1-1.1-MC-2019-1725) and **1** Contract with Industry (13285/27.09.2019);

1 Research Grant as **Main Investigator**; **Key member team** in **7** Research Projects.

AWARDS: “NICOLAE TECLU” Prize of Romanian Academy – 2012 – for the papers in the field of “*Composite materials based on renewable resources for removal of heavy metal ions from simulated aqueous solution*”.

PEER-REVIEW ACTIVITY: **2019 – to date** **EDITOR** for *Reactive and Functional Polymers* (Elsevier B.V., Amsterdam, Netherlands) (~240 decisions/year) – **IF = 3.975**.

2019 – to date EDITORIAL BOARD MEMBER of *Gels* (MDPI AG, Basel, Switzerland)
(~10 reviews/year) – IF = **4.702**.

REVIEWER for national (UEFISCDI) and international programs/projects (National Science Centre– OPUS, PRELUDIUM, SONATA funding scheme – NCN, Poland; FONDECYT Program National Research and Development Agency – ANID, Spain) and research journals (~30 reviews/year).

SKILLS and COMPETENCES: Mother tongue: Romanian; Other languages: English and French.

IT-skills: Windows, Microsoft Office, Origin, ChemDraw, TRAPEZIUMX, ACD/Labs software package, other software's for collecting and analyzing experimental data (FTIR, MS, GPC, SLS-DLS, TEM, SEM, AFM, UV-Vis, etc.).