

CURRICULUM VITAE

Dr. habil. Andrei Honciuc

Senior Research Scientist (Grade I)

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CAREER

04/2025 – present Senior Research Scientist (Grade I), Project Director Semiconducting / Amphiphilic Polymers for Opto-Electronic Applications Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania

01/2020 - 03/2025 Senior Research Scientist (Grade II), Project Director Semiconducting / Amphiphilic Polymers for Opto-Electronic Applications Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania

03/2014 - 10/2019 Professor and Research Group Leader Institute of Chemistry and Biotechnology Zurich University of Applied Sciences (ZHAW), Switzerland

05/2011 - 03/2014 Chemist, R&D Laboratory Team Leader BASF SE, Ludwigshafen, Germany

02/2009 - 04/2011 Alexander von Humboldt Postdoctoral Fellow Friedrich-Alexander University Erlangen-Nuremberg, Germany

10/2006 - 02/2009 Research Associate (Postdoctoral Researcher) Department of Chemical Engineering University of Colorado Boulder, USA

ACADEMIC QUALIFICATIONS

05/2026 Habilitation in Chemistry at Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania, granted by O.M. Nr. 3983/19.05.2026

09/2001 - 08/2006 PhD in Chemistry The University of Alabama, USA

09/2001 - 08/2004 MSc in Chemistry The University of Alabama, USA

10/1997 - 06/2001 BSc in Chemistry and Physics Alexandru Ioan Cuza University, Romania

09/1993 - 09/1997 High School Diploma Roman-Voda National College, Roman, Romania

AWARDS AND FELLOWSHIPS

- 2007 Outstanding Graduate Student Award University of Alabama, USA
- 2008 Outstanding Dissertation Award University of Alabama, USA
- 2008 Award of Merit University of Alabama, USA
- 2009 Alexander von Humboldt Fellowship Germany
- 2014 Metrohm Foundation Endowment, Metrohm Foundation, Switzerland
- 2022 Best Paper Award, 8th World Congress on New Technologies (NewTech'22) “Determining Surface Energies of Nanoparticles from the Contact Angles Measured with the NanoTraPPED Method”
- 2025 Best Poster Award, The 5th International Online Conference on Nanomaterials (IOCN'25) “Piezoelectric-Like Response and Energy Harvesting Potential of a Moldable PVA/PANi Composite Prepared via Frozen-Gel Polymerization”

SCIENTIFIC ACTIVITY (Summary)

- 57 peer-reviewed ISI-indexed journal articles
- 1 book chapter (Springer)
- 1 single-author book: “Chemistry of Functional Materials Surfaces and Interfaces Fundamentals and Applications” 2001, Elsevier
- 9 published international patents
- h-index: 22

FUNDED PROJECTS AND PROJECT MANAGEMENT EXPERIENCE (selected)

01.04.2021 - 31.03.2022

NanoTraPPED - Development of a Method for Measuring the Surface Energy of Nanoparticles

Role: Project Director

Project No.: 200021_188465

Funding agency: Swiss National Science Foundation

Total budget: CHF 136250

<https://data.snf.ch/grants/grant/188465>

01.02.2019 - 31.01.2020

Development of High-Performance Surfactants

Role: Project Director

Funding agency: AdvanSix Inc., USA

Budget: CHF 195000

2022 - 2024

Employing PEmPTech in the Synthesis of Ion-Imprinted Polymer Architectures for Metal Ion Extraction from Wastewaters and Hydro-Mining (PEmPTech)

Role: Project Director

Funding agency: Ministry of Research, Innovation and Digitalization, Romania

Budget: RON 1200000

<https://icmpp.ro/projects/17/about.php?id=55>

EDITORIAL ACTIVITY, EVALUATION AND ADVISORY COMMITTEES

- Editorial Board Member of *Micromachines*, (IF 3.0, Citescore 6.0, MDPI Journal), https://www.mdpi.com/journal/micromachines/sectioneditors/D_Materials_Processing
- Associate Editor of *Interdiscipline*, (ELSP Publishing) https://www.elspub.com/journals/interdiscipline/editorial_board/
- Editorial Board Member of *Engineering Science & Technology* (Universal Wiser Publisher, ISSN: 2717-5235) <https://ojs.wiserpub.com/index.php/EST/about/editorialTeam>
- Guest Editor Special Issues „Morphological Design and Synthesis of Nanoparticles” in *Nanomaterials*, 3 editions, in 2022, 2023 & 2024 ((IF 4.3, Citescore 9.2, MDPI Journal)
- Guest Editor Special Issues „Emerging Topics in Polymeric Nanoparticles” 2026, in *International Journal of Molecular Sciences* (IF 4.9, Citescore 9.0, MDPI Journal)
- Project Evaluator: National Science Center (Poland), ACS Petroleum Research Fund (USA), HORIZON ERC Grants (EU)
- Member in the Expert Committee for the evaluation of the performance of the Romanian Research Institutions, Ministerial Order, 3713/21.04.2026
- Member of International Advisory Committee “25th International Symposium Surfactants in Solution” 14th-19th July, 2026, Madrid, Spain
- Member of International Advisory Committee “15th International Conference on Advanced Materials and Engineering Materials” 18th -20th December, 2026 (ICAMEM 2026)
- Peer Reviewer: ACS Nano, Journal of the American Chemical Society, ACS Applied Materials and Interfaces, Materials Chemistry, ACS Omega, Langmuir, Nanomaterials, Macromolecules, Small, etc.

LANGUAGE SKILLS

English: C2 (GRE, TOEFL certified)

German: B2 (TELC certificate)

Romanian: Native