

MIHAI-GABRIEL ASĂNDULESĂ

Scientific researcher (CS), “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania



Date and Place of Birth: March 21st, 1983, Dorohoi-Botosani, Romania

Nationality: Romanian

E-mail: asandulesa.mihai@icmpp.ro, **Tel.:** +40-748-044697

ResearchGate profile link: https://www.researchgate.net/profile/Asandulesa_Mihai

Google Scholar profile link: <https://scholar.google.ro/citations?user=ooVtMJMAAAAJ&hl=en&oi=ao>

Foreign Languages: English (good) and French (beginner).

Education and training:

- October 2009 – September 2012: Doctoral studies in Physics, “Alexandru Ioan Cuza” University of Iasi, Romania; Thesis title: *Physicochemical processes in plasma reactors. Applications*;
- October 2007 – September 2009: Master studies in Plasma Physics, Spectroscopy and Polymer Physics, “Alexandru Ioan Cuza” University of Iasi, Romania;
- October 2002 – September 2007: Bachelor studies (Physical Engineering diploma), Department of Technological Physics, “Alexandru Ioan Cuza” University of Iasi, Romania.

Professional experience:

- April 2014 – present: Scientific researcher (CS) on basic and applied research, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania;
- October 2007 – March 2010: Research Assistant on basic research at “Alexandru Ioan Cuza” University of Iasi, Romania;
- July 2006 – September 2006: Electronics Technician on applied research, Continental Automotive Systems, Sibiu, Romania.

Specializations:

- November 2019: Researcher mobility project (PN-III-P1-1.1-MC-2019-0861), at Universite Claude Bernard Lyon 1, France;
- July 2014: Research stage at Academy of Sciences of Moldova, D. Ghitu Institute of Electronic Engineering and Nanotechnologies, Chisinau, Moldova;
- March – June 2013: CEEPUS fellow at Institute for Ion Physics and Applied Physics (IEPPG), Leopold-Franzens University, Innsbruck, Austria (project coordination, Prof. Dr. Roman Schrittwieser);
- February – September 2010: PhD. research fellow at Institut Europeen des Membranes (IEM), Montpellier, France (project coordination, Dr. Vincent Rouessac);
- February – April 2009: CEEPUS fellow at Institute for Ion Physics and Applied Physics (IEPPG), Leopold-Franzens University, Innsbruck, Austria (project coordinator, Prof. Dr. Roman Schrittwieser);
- November 2007 – April 2008: Socrates-Erasmus fellow at Ecole National Superieure de Chimie and Institut Europeen des Membranes (IEM), Montpellier, France (project coordination, Prof. Dr. Jean Durand).
- November 2019: Research stage at Universite Claude Bernard Lyon 1, France.

Teaching activity:

- November 2010 – February 2011 and October 2012 – January 2013: Laboratory teaching at Faculty of Bioengineering, Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania

Personal subjects/occupational skills covered:

- Broadband dielectric spectroscopy investigations of polymer, polymer blends and carbon-based composite materials in the frequency range from 10 mHz to 1 MHz and temperature range from -150 to +300°C;

- morphology, structure and segmental dynamics in polymer and polymer/hybrid carbon nanofillers composites with focus on nanofiller-polymer backbone interactions;
- electrical properties at interfaces (electrode polarization – EP and interfacial polarization – MWS);
- evaluation of electrical conductivity (modulus formalism, direct current conductivity, alternative current conductivity).

- Physico-chemical analyses of polymer materials (Nuclear Magnetic Resonance Spectroscopy, Infrared Spectroscopy, X-ray Photoelectron Spectroscopy, Ellipsometry, Interferometry, Contact Angle method) and Electrical properties of polymeric materials (Four Point Probe technique and Dielectric Spectroscopy).

Scientific activity (2006-2021):

- Over 35 participation at national and international conferences;
- 4 oral presentations in international scientific meetings (**Lecture awarded with Organizing Committee Prize** at 12th International Conference on Physics of Advanced Materials, Heraklion, Greece, September 22-28, 2018);
- 59 ISI indexed papers (6 of them as first author; 42 of them belong to top 50% red and yellow areas);
- member in 5 national and one international research projects;
- 328 citations, Hirsch index =10 (according to Web of Science Core Collection)
- **Guest Editor at Polymers** (Impact Factor: 3.426) for Special Issue “Polymer-Based Dielectric Materials”. Deadline for manuscript submissions: **27 March 2022**.

Publications (top 5)

1. Sergei Bronnikov, Sergei Kostromin, **Mihai Asandulesa**, Dmitrii Pankin, Aleksandr Podshivalov, Interfacial interactions and interfacial polarization in polyazomethine/MWCNTs nanocomposites, *Composites Science and Technology* 190 (2020) 108049 (Impact Factor: 7.094);
2. **Mihai Asandulesa**, Sergei Kostromin, Aleksandr Podshivalov, Alexey Tameev, Sergei Bronnikov, Relaxation processes in a polymer composite for bulk heterojunction: A dielectric spectroscopy study, *Polymer* 203 (2020) 122785 (Impact Factor: 4.231);
3. Irina Butnaru, Catalin-Paul Constantin, **Mihai Asandulesa**, Aleksandra Wolińska-Grabczyk, Andrzej Jankowski, Urszula Szeluga, Mariana-Dana Damaceanu, Insights into molecular engineering of membranes based on fluorinated polyimide-polyamide miscible blends which do not obey the trade-off rule, *Separation and Purification Technology* 233 (2020) 116031 (IF: 5.107);
4. **Mihai Asandulesa**, Valentina-Elena Musteata, Adrian Bele, Mihaela Dascalu, Sergei Bronnikov, Carmen Racles, Molecular dynamics of polysiloxane polar-nonpolar co-networks and blends studied by dielectric relaxation spectroscopy, *Polymer* 149 (2018) 73-84 (IF: 4.231);
5. **Mihai Asandulesa**, Ionut Topala, Valentin Pohoata, Yves Marie Legrand, Marius Dobromir, Marian Totolin, Nicoleta Dumitrascu, Chemically polymerization mechanism of aromatic compounds under atmospheric pressure plasma conditions, *Plasma Processes and Polymers* 10 (2012) 469-480 (IF: 3.065).