

Dr. Maria-Cristina Popescu

Senior researcher II

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EDUCATIONAL BACKGROUND:

- ✓ **2010-2013, Postdoctoral scholar**, Project European Social Fund -Postdoctoral Program Cristofor I. Simionescu, research field -biomaterials, scientific subfield -nanostructured nano and biomaterials, funded individual project “Systems containing dendrimers with application in drug relies”
- ✓ **2009, Doctor in Chemistry degree:** Petru Poni Institute of Macromolecular Chemistry of the Romanian Academy, Iasi, Romania.
- ✓ **2001, M.Sc. degree:** Faculty of Physics, Al. I. Cuza University, Iasi, Romania. Specialty: Optics and Spectroscopy.
- ✓ **1999, B.Sc. degree:** Faculty of Physics, Al. I. Cuza University, Iasi, Romania. Specialty: Physics.

WORK EXPERIENCE:

- ✓ **01.02.2018 – present, scientific researcher II (eqv: associate professor)**, Petru Poni Institute of Macromolecular Chemistry of the Romanian Academy
- ✓ **01.2014 – 31.01.2018, scientific researcher III (eqv: assistant professor)**, Petru Poni Institute of Macromolecular Chemistry of the Romanian Academy
- ✓ **07.2010 – 12.2013, scientific researcher**, Petru Poni Institute of Macromolecular Chemistry of the Romanian Academy
- ✓ **09.2003 – 06.2010, research assistant**, Petru Poni Institute of Macromolecular Chemistry of the Romanian Academy
- ✓ **02.2001 –07.2005, associate assistant professor**, Faculty of Physics, Al. I. Cuza University

MAIN SCIENTIFIC INTEREST:

- evaluation of interactions in multicomponent polymeric systems,
- study of phase transitions, conformational and structural changes and degradation mechanisms in polymeric systems induced by different external factors,
- bio-based (nano)composites,
- degradation and modification of wood
- bio-nanocomposite materials for food industry and agriculture

EXPERIENCE IN ANALYSIS AND EXPERIMENTAL TECHNIQUES:

Mid infrared (FT-IR) spectroscopy and 2DCOS, near infrared (NIR) spectroscopy, UV/VIS and fluorescence spectroscopy, Raman imaging, X-ray diffraction and X-ray photoelectron spectroscopy; ellipsometry, optical and electronic microscopy, AFM; thermal analysis methods (thermogravimetry differential scanning calorimetry); contact angle measurements and water vapour sorption.

RESEARCH STAGES IN EUROPEAN INSTITUTES

- ✓ Visiting researcher, Institut de Chimie des Surfaces et Interfaces CNRS-UHA UPR 9069, Mulhouse, France (2006)
- ✓ Visiting researcher, Centre of Wood Science and Technology, Forest Product Research Institute, Edinburgh Napier University, Edinburgh, United Kingdom; (2011)
- ✓ Visiting researcher, Institute of Chemical Technologies and Analytics, Division Environmental and Process Analytics, Vienna University of Technology, Vienna, Austria (2012)
- ✓ Visiting researcher, Faculty of Chemistry, Molecular Imaging and Photonics Department, KU Leuven, Leuven, Belgium (2012)

MEMBER OF THE ORGANIZING COMMITTEE OF SCIENTIFIC MEETINGS

- ✓ **03-05.05.2012** – IVth European Symposium on Religious Art, Restoration and Conservation, Iasi, Romania (Organising Committee Member)
- ✓ **09-11.04.2013** – Evaluation, processing and predicting of THM treated wood behaviour by experimental and numerical methods, COST Action FP0904 Conference, Iasi, Romania (Organising Committee Member- 59 participanti din strainatate)
- ✓ **10-11. 03. 2015** - Advances in cellulose processing and applications –research goes to industry. Joint Working Groups & Management Committee meetings, COST FP1205, Iasi, Romania (Organising Committee Member- 50 participanti straini)

INTERNATIONAL PROJECT:

- ✓ **Project COFUND-M-ERA.NET II-COMPIO no. 73 from 01/07/2017** - Eco-friendly nanoclay, nanocellulose and MIP composites for microbial formulations - **Partner project leader**

NATIONAL PROJECTS:

- ✓ Spectrophotometric study of same anisotropic and optic active substances, topic no. 40, (CNCSIS) **Research team member**
- ✓ Polymers in solid and solution state. Compatibility, Project of Romanian Academy – 2001; **Research team member**
- ✓ Project *CEEX 10/2005* - Innovative degradable, biocompatible and bioactive architectures based on natural and synthetic polymers; **Research team member**
- ✓ *RELANSIN C2108/2004-2006 BIOFIL* – New biodegradable films based on regenerable resources with application in agriculture, packaging and other products with determined lifetime, **Research team member**
- ✓ *RELANSIN 1993/2004-2006* – Polymeric compounds with performant application properties for special applications; **Research team member**
- ✓ *CALIST*- Realization of matriceal natural biopolymers for synthetic polymers biocompatibilization for medical use; **Research team member**
- ✓ *Project PC (NOSITEC) 10/2007* – New therapeutic systems delivering nitrogen oxide with controlled release; **Research team member**

- ✓ Project CNCSIS-UEFISCSU, PN II-RU PD 460/2010-2012 Study of the aging behavior of new woody materials obtained by environmentally friendly methods; ***Project leader***
- ✓ Project PN-II-RU-TE-2014-4-1828 – UEFISCDI/2015-2017, Inovative eco-friendly antimicrobial bio nanomaterials for food and medicine packaging; ***Project leader***

SCIENTIFIC RESULTS:

Published papers: 78 in journals (58 ISI journal, 20 other journals); **books:** 3; **chapters in books:** 9; **proceedings:** 19; **patent:** 1; **keynotes/conferences/lectures/invited lecturer:** 5; **communications:** oral 60; posters over 90; **scientific research projects – member:** 9; **COST Actions – member:** 16; **ORCID:** 57194939973; **Citations:** 1325, **Index h** = 20 (source Scopus)
Scopus ID: <http://orcid.org/0000-0003-4543-2870>