



CURRICULUM VITAE

PERSONAL INFORMATION

First name/Surname: Simona-Luminita NICA

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EDUCATIONAL BACKGROUND:

- ✓ **2015, Doctor in Chemistry degree:** PetruPoni Institute of Macromolecular Chemistry of the Romanian Academy, Iasi, Romania.
- ✓ **2006, M.Sc. degree:** Faculty of Physics, Al. I. Cuza University, Iasi, Romania. Speciality: Solid state physics.
- ✓ **2004, B.Sc. degree:** Faculty of Physics, Al. I. Cuza University, Iasi, Romania. Speciality: Physics.

CURRENT POSITION:

Research assistant, Romanian Academy, "Petru Poni" Institute of Macromolecular Chemistry

CAREER:

- ✓ **2009-present: Research assistant** at "PetruPoni" Institute of Macromolecular Chemistry, Laboratory of Polymer Physical Chemistry, Iasi, Romania.
- ✓ **2006-2009: Physics Teacher** at Secondary School no. 1, Vaslui
- ✓ **2005-2006: Physics Teacher** at "Sf. Ecaterina" School Vaslui- *certificate of clear teaching credential*

✓ **2004-2005: Physics Teacher** at Industrial Scholar Group "Stefan Procopiu", Vaslui

MAIN SCIENTIFIC INTERESTS:

- Fluorinated polymers-based materials for electronic application;
- New materials based on semialiphatic polymers for biomedical applications;
- Polymer-magnetic nanoparticle-composites for humidity sensors applications;
- Development of thin solid films for use in humidity sensors devices.
- Bio-nanocomposite materials for biomedical applications

EXPERIENCE IN ANALYSIS AND EXPERIMENTAL TECHNIQUES:

Rheology analysis, UV/VIS and fluorescence spectroscopy, Raman imaging, X-ray diffraction and X-ray photoelectron spectroscopy; AFM; thermal analysis methods (thermogravimetry differential scanning calorimetry); contact angle measurements and water vapour sorption.

NATIONAL PROJECTS:

“New approaches in designing polymer surfaces with controllable pattern for applications in biomedicine and high technologies” (PNII-RU-TE-2014-4-2976, 2015-2017), **Research team member**

SCIENTIFIC RESULTS:

6 WOS (ex-ISI) scientific papers, **2 BDI** papers published in the proceedings of national scientific meetings, **1 book** chapter as first author, **4** oral presentations and **18** posters at national/international scientific conferences

Web of Science: 36 citations, h-index: 3; Scopus: 28 citations, h-index: 3; Google Scholar: 44 citations, h-index: 3.

Awards:IIIrd Prize for "Determination of the Optical Constants and Thickness of Titanium Oxide Thin Films by Swanepoel Method" presented at National Conference "Physics and modern educational technologies"; Authors: V. Nica, **S. Chirca**, D. Mardare, 26-27 May 2006, Iasi, Romania.