Curriculum Vitae

Dr. Loredana VĂCĂREANU

Research Assistant

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Professional experience:

- *2010 - present* – **Research Assistant** at "P. Poni" Institute of Macromolecular Chemistry, Electroactive Polymers Department;
- *2010-2013* – **Postdoctoral Fellow** at "P. Poni" Institute of Macromolecular Chemistry, Electroactive Polymers Department (funded by "European Social Fund - Cristofor I. Simionescu" Postdoctoral Fellowship Programme (ID POSDRU/89/1.5/S/55216), Sectorial Operational Programme Human Resources Development);
- *2007-2009* – **Research Fellow** at "P. Poni" Institute of Macromolecular Chemistry, Electroactive Polymers Department (funded by the Romanian Action for Integrating, Networking and Strengthening the European Research Area (RAINS) grant);
- *September - December 2007* – **RAINS Research Fellow** at Physical Organic Chemistry Centre, at Cardiff University (UK); Advisor: Dr. Niklaas Buurma

Education, degrees and diplomas

- *2005–2009* – **Ph.D. degree** in Chemistry, "P. Poni" Institute of Macromolecular Chemistry, Iasi; Thesis title: *"New arylamine oligomers for optoelectronic applications*", Supervisor Dr. Mircea Grigoras
- *2005-2007* – **Master degree** "*Dynamics and reactivities in chemical systems*", Faculty of Chemistry, "Al. I. Cuza" University, Iasi; M Sc. Thesis Title: "*Electrochemical behavior of triphenylamine and its derivatives"*
- *2001-2005* – **Bachelor degree** in Chemistry, Physical Chemistry specialization, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Department of Chemistry, Graduation thesis title: *"Electrochemical methods with bio-analytical applications. Amino acids, peptides and proteins determinations"*

Work experience:

- Synthesis and characterization of conjugated polymers based on aromatic amines (triphenylamine, carbazole, aniline units), with various macromolecular structures (arylene, arylenevinylene, aryleneethynylene, imine) and architectures (linear, branched, hyperbranched) for advanced optoelectronic applications;
- Synthesis and characterization of conjugated polymers based on donor units (triphenylamine and carbazole) and acceptor units (CN, benzothiadiazole);
- Electrochemical synthesis/deposition of conjugated polymers and their

electrochemical characterization in terms of the redox behavior and electrochromic properties.

Scientific activity:

41 research papers published in international journals indexed in Thomson ISI (**12** as first author);

2 book chapter (**1** as first author);

3 national projects - as team member;

32 participations at international/national scientific events

Projects:

- *2006-2008* –2-CEEX 06-11-31-3/2006, acronym NMSNSGV, "*New nanostructured and semiconducting materials with possible applications as solid sensors for gases and vapors and for environment protection"*, National project – CEEX; Role: **researcher**
- *2009-2011* – PN-II-IDEI 993/2008/Contract no. 649/2009, "*Organic and Hybride Conducting and Nanostructured Materials for Multifunctional Application*", National Project – CNCSIS; Role: **researcher**
- *2011-2015* PN-II-ID-PCE-2011-3-0274/Contract nr. 148/2011, "*Novel conjugated polymer structures for high efficiency all-organic solar cells*", National Project – CNCSIS; Role: **researcher**.

Scientific visibility:

- H-index: 9 (*according to ISI Web of Science, 26.05.2021*), **10** (*according to Google Scholar*); cumulative **IF = 70**.

- **Sum of the times cited***:* 275, **without self-citation:** 226 *(according to ISI Web of Science, May 2021)*