

# Dr. Lenuta Stroea (Maiden name Hahui)

**Nationality:** Romanian

**Date and place of birth:** 11.02.1981, Tecuci, Romania

**Address:** 65 Pacurari Road, Iasi, Romania

**Mobile phone:** +40-740232058

**E-mail:** [elenah@icmpp.ro](mailto:elenah@icmpp.ro), [stroeaelena@gmail.com](mailto:stroeaelena@gmail.com)



## Education

- 2011 **Italian equivalence of B.Sc.** - Alma Mater Studiorum University, Bologna, Italy
- 2008 **Ph.D. Macromolecular Chemistry** - Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania
- 2007 **M.Sc. Enzymology and Biotechnology** - Alexandru Ioan Cuza University, Iasi, Romania
- 2007 **M.Sc. Polymeric Biomaterials** - Gheorghe Asachi Technical University, Iasi, Romania
- 2004 **B.Sc. Chemistry** - Alexandru Ioan Cuza University, Iasi, Romania

## Experience

### January 2014 – present

**Researcher** – Petru Poni Institute of Macromolecular Chemistry, Iasi Romania  
Polyaddition and Photochemistry Department

*Main tasks:* - Design and development of macromolecular compounds with photosensitive units having well-defined composition, architecture and functionality

### February 2009 – December 2013

**Post-Doc** – Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)  
UTTMATF Faenza Research Laboratories – Italy, Tutor – Dr. F. Antolini

*Main tasks:* - Synthesis, structural and functional characterisation of new single-source precursors and generation of the corresponding nanoparticles (inorganic systems);- Synthesis and characterization of polymer/nanoparticles composites (organic/inorganic hybrid systems) for applications in advanced electronics (OLED and solar cells) within European Research Project LAMP (no. 247928)

## November 2008 – February 2009

**Research Assistant** – Petru Poni Institute of Macromolecular Chemistry, Iasi Romania  
Photochemistry Department

*Main tasks:* Synthesis and characterization of macromolecular compounds by different polymerization methods (radical free polymerization, ATRP, etc.) for various applications (optics, sensors)

## November 2004 – November 2008

**PhD in Polymer Chemistry** – Petru Poni Institute of Macromolecular Chemistry, Iasi Romania;  
Photochemistry Department, Tutor – Dr. E.C. Buruiana

*Main tasks:* - Synthesis of triazene acrylic monomers and their corresponding photopolymers using radical free polymerization; studies of spectral characterization (FTIR, <sup>1</sup>H-NMR, UV-Vis), thermal characterization (DSC, ATG), optical microscopy (AFM), SEM and kinetics determinations; - Fluorescence studies on triazene- and pyrene (co)polyacrylates including quenching measurements for future sensor applications

## Publications, research projects and other scientometrics indicators

**BrainMap ID:** U-1700-036P-4632

**Hirsh Index:** 8

**Publications:** 16 articles ISI indexed

**Proceedings:** 7 papers

**Scientific presentations:** 24 oral and 19 posters

**Research projects:** member in 3 international and 15 national projects

### Representative Peer Reviewed Publications:

- [01] *Polymer Nanocomposites for Photocatalytic Applications*, V. Melinte, **L. Stroea**, A.L. Chibac-Scutaru - *Catalysts*, 9, 986, 2019
- [02] *Photocrosslinked hybrid composites with Ag, Au or Au-Ag NPs as visible-light triggered photocatalysts for degradation/reduction of aromatic nitroderivatives*, V. Melinte, **L. Stroea**, T. Buruiana, A. L. Chibac - *Eur. Polym. J.* 121, 109289, 2019
- [03] *Synthesis and solution properties of thermosensitive hydrophilic imidazole based copolymers with improved catalytic activity*, **L. Stroea**, T. Buruiana, E.C. Buruiana - *Mat. Chem. Phys.* 223, 311, 2019
- [04] *Highly Luminescent Colloidal CdS Quantum Dots with Efficient Near Infrared Electroluminescence in Light-Emitting Diodes*, A.K Bansal, F. Antolini, S. Zhang, **L. Stroea**, L. Ortolani, M.Lanzi, E.Serra, S.Allard, U. Scherf, I.D.W. Samuel - *J. Phys. Chem. C* 120 (3), 1871, 2016
- [05] *In situ formation and photo patterning of emissive quantum dots in small organic molecules*, A.K. Bansal, M.T. Sajjad, F. Antolini, **L. Stroea**, P. Gecys, G. Raciukaitis, P. Andre, A. Hirzer, V. Schmidt, L. Ortolani, S. Toffanin, S. Allard, U. Scherf, I.D.W Samuel - *Nanoscale* 7, 11163, 2015

## Representative research projects:

**2018-2020** PN-III-P1-1.1-TE-2016-1390 (34/02.05.2018) - *Design and preparation under mild "green" conditions of UV-cured polymer - metal/metal oxide nanoparticles hybrid coatings with predictable antimicrobial or sealing features*

**2018-2020** PN-III-P1-1.2-PCCDI-2017-0428 - *Innovative nanotechnologies based on polymers for new advanced materials obtaining*

**2010-2013** European Research Project LAMP no: ICT-2009.3.8 -247928 *LAser induced synthesis of polymeric nanocomposite materials and development of Micro-Patterned hybrid light emitting diodes (LED) and transistors (LET)*

## Languages

**Romanian** (native), **English** (fluent), **Italian** (fluent), **French** (basic)

## Computer skills

Excellent skills on the use of different common computer programmes (Internet Explorer and Office applications) but also specialized chemistry programs (ISIS Draw, CHEM Draw, Mestrec, ORIGIN, 1- D WIN-NMR, X' PERT, etc.)

## Further information - if relevant

- Dynamic and creative person
- Communicative person, interested in establishing new relationships with people of different nationalities and culture
- Capacity to organize work, defining priorities and assuming liability during different professional experiences
- Skills and experience in drafting scientific reports for publishing and/or for scientific conferences
- I like to keep fit, dancing, travelling, cooking and socializing