

**PhD. Luminita-Ioana  
Buruiana,  
Research assistant**



**Personal information**

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**Date of birth/Nationality** 25.12.1976 / Romanian

**Occupational field** "Petru Poni" Institute of Macromolecular Chemistry,  
Department of Physical Chemistry of Polymers

**Work experience**

Dates / Occupation or position held

- 2012-present** Research assistant at "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania - in the field of materials science
- 2008-2012** PhD student at "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania - in the field of polymer science  
(PhD thesis: "Mathematical modeling and theories applied in characterization of some complex polymer structures")
- 2005-2008** Research assistant at National Institute of Research & Development for Technical Physics, Iasi, Romania - in the field of magnetic materials with biomedical applications

**Education and training**

- Dates/ Title of qualification awarded/ Name and type of organisation providing education and training**
- 2008-2012/ PhD student in Polymer science at "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
  - 2005-2006/ Master diploma in *Bioactive substances and medical biotechnologies* /"Grigore T. Popa" University of Medicine and Pharmacy, Faculty of Medical Bioengineering, Iasi, Romania
  - 1998-2004 /Bachelor diploma in *Medical Bioengineering*/"Grigore T. Popa" University of Medicine and Pharmacy, Faculty of Medical Bioengineering, Iasi, Romania

**Personal skills and competences**

Self-assessment

- 1991-1995/ High school diploma in Specific domains of exact sciences/ "Mihail Sadoveanu" high school, Iasi, Romania

English – good understanding (listening and reading), speaking and writing

Spanish – good understanding and writing

**Social skills and competences**

teamwork, communicative, assertiveness

**Organisational skills and competences**

capacity of analysis, good assistance, organization

**Technical skills and competences**

- utilization of Bohlin CS 50 rheometer, Malvern Instruments, UK: sample manipulation, obtaining and analysis of flow curves, evaluation of viscoelastic properties, deduction of flow activation energy, discussion of results

- preparation of coated magnetic nanoparticles for specific biomedical applications

- preparation of magnetic fluids - hyperthermia as modern cancer therapy

- manufacturing of in vitro experimental model for simulating magnetic embolization as possible cancer therapy

**Computer skills and competences**

MicrosoftWord, Excel, PowerPoint, FrontPage, Origin, AdobePhotoShop, Mathcad

**Annexes**

## ISI indexed scientific articles

1. Rheological and morphological properties of phosphorus-containing polysulfones  
S. Ioan, **L. I. Buruiana**, O. Petreus, E. Avram, I. Stoica, G. E. Ioanid, *Polymer Plastic Technology and Engineering* 50, 36 (2011)
2. Optical, dielectric, and conduction properties of new phosphorus-modified polysulfones  
S. Ioan, **L. I. Buruiana**, E. Avram, O. Petreus, V. E. Musteata, *Journal of Macromolecular Science Part B: Physics* 50, 1571 (2011)
3. Electrical conductivity and optical properties of a new quaternized polysulfone  
**L. I. Buruiana**, E. Avram, A. Popa, V. E. Musteata, S. Ioan, *Polymer Bulletin* 68, 1641 (2012)
4. Influence of triphenylphosphonium pendant groups on the rheological and morphological properties of new quaternized polysulfone  
**L. I. Buruiana**, E. Avram, A. Popa, I. Stoica, S. Ioan, *Journal of Applied Polymer Science* 129, 1752 (2013)
5. Impact of some properties of quaternized polysulfone/poly(vinylidene fluoride) blend on the potential biomedical applications  
**L. I. Buruiana**, E. Avram, A. Popa, Silvia Ioan, *Polymer-Plastics Technology and Engineering*, 54, 671 (2015)
6. Evaluation of blood cells and proteins spreading on imidic polymers containing alicyclic sequences,  
**L.I. Buruiană**, A.I. Barzic, I. Stoica, C. Hulubei, *Journal of Polymer Research* 23, 217 (2016)
7. Optical and electronic properties of quaternized polysulfone/polyvinyl alcohol blends in relation to structure of the polymers  
**L.I. Buruiană\***, E. Avram, V.E. Musteata, A. Filimon, *Materials Chemistry and Physics* 177, 442 (2016)
8. New insights on solvent implications in flow behavior and interfacial interactions of hydroxypropylmethyl cellulose with cells/bacteria  
A. I. Barzic, R. M. Albu, L. M. Gradinaru, **L.I. Buruiana**  
*e-Polymers*, 18, 135-142 (2018)