

PERSONAL INFORMATION



Elena Stoleru (former Pâslaru)

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Sex F | Date of birth 07/01/1987 | Nationality Romanian | Marital status Married, 1 child

WORK EXPERIENCE

July 2015 - present

Scientific Researcher

“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania, www.icmpp.ro

- The main activities and responsibilities include the followings: surface modification/functionalization of synthetic and/or natural polymers for obtaining multifunctional materials; encapsulation of different active substances in polymer matrices for obtaining new systems with controlled release of (bio) active compounds for biomedical and food packaging applications; physico-chemical characterization of the obtained systems using different investigation methods; participation to national and international conferences as well as writing scientific articles.

Business or sector Research and Development

November 2009 – June 2015

Research Assistant

“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania, www.icmpp.ro

- Obtaining of multifunctional polymeric surfaces/materials (responsive to external factors, biocompatible, bioactive, etc.) to be applied in biomedical and/or food packaging fields.

Business or sector Research and Development

EDUCATION AND TRAINING

April 2019 – present

Postdoctoral study

Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry, Romania

- Studying the chemical behaviour of eugenol, thymol and eucalyptol in the gas phase under simulated atmospheric conditions using ESC-Q-UAIC facilities (Environmental Simulation Chamber made of Quartz from Alexandru Ioan Cuza University of Iasi), chemical compounds that are present as main component in selected essential oils (clove, thyme and rosemary) with high potential for use in food industry and healthcare due to their biological properties.

November 2009 – January 2014

Doctor in Chemistry

Romanian Academy, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

- During elaboration of the doctoral thesis, coordinated by CSI Dr. Cornelia Vasile, I had as the main research direction the development of polymeric surfaces responsive to external factors. My main areas of research interest are: surface modification/grafting of polymers by physical (cold plasma functionalization) and chemical methods, responsive polymers, multifunctional materials, food packaging (active, bioactive, responsive, biodegradable), active substances encapsulation/release, biomaterials.

October 2005 – July 2010

Bachelor of Science

“Alexandru Ioan Cuza” University, Faculty of Chemistry, Iasi, România
Qualification in “Technological Biochemistry”

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B1	B1	B1
Italian	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained through my experience in attending scientific conferences (national and international), presenting numerous oral communications, participating in different research trainings.

Job-related skills

Responsibility, ability to work with deadlines and in a multidisciplinary and multifunctional research team. Excellent experimental skills in UV and FTIR spectroscopy; potentiometric and polyelectrolyte titrations, measurements concerning wetting properties of polymeric materials (contact angle measurements), dissolution tests.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
 Digital competences - Self-assessment grid

- Competent with most Microsoft Office programs –Word, Excel, PowerPoint; Adobe Photoshop; Origin; Graph4win; Paint; ACD/ChemSketch; OPUS.

ADDITIONAL INFORMATION

Publications

Principal author or co-author of 32 articles published in ISI-indexed journals and co-editor of a book and the first author / co-author of 4 other book chapters published in international publishing houses.

Presentations/ Conferences

Participation in over 45 national and international conferences / symposiums (most of them international).

Projects

Team member of 6 international projects and 4 national projects. I am co-innovator of 4 patents.

Honours and awards

The Romanian Academy Award "Cristofor I. Simionescu" for the group of articles published in 2016 on the theme "Physical and chemical functionalization of polymeric surfaces to obtain biomaterials".
 4 gold medals and 2 silver medals at different Inventions Salons - INVENTICA 2014, EUROINVENT 2015 and INVENTICA 2016 Iasi, Romania. I have won the prize for the best oral presentation in 2011 at Iasi Academic Days "Progress in Organic and Polymer Chemistry" XXIIIrd Edition and the prize for the best poster presentation at „Drug Days” XXth Edition, Iași.

Citations

According to ISI Web of Science Core Collection (searched for: *AUTHOR: (Paslaru E) AND ADDRESS: (poni) OR AUTHOR: (Stoleru Elena) AND ADDRESS: (poni)*) (September 2019): 347 citations (309 without self citations) and Hirsch index **10**; **According to Publons** (Web of Science ResearcherID O-4402-2014): 345 total times cited and Hirsch index 10 (<https://publons.com/researcher/1361587/elena-stoleru/publications/>)

Trainings

I was selected with other 13 Romanian researchers to participate at the technological transfer and intellectual property workshop organized by the Romanian Institute of Science and Technology in collaboration with École polytechnique fédérale de Lausanne - Technology transfer office (EPFL-TTO), and held at EPFL-TTO Lausanne, Switzerland.

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I have participated at **research internships** in foreign institutions where valuable experiments were performed such as: at Polymers, Colloids and Interfaces Laboratory, University of Maine, Le Mans, France, collaborating with Prof. Dr. Fabienne Poncin-Epaillard; at Laboratory for Characterization and Processing of Polymers – LCPP, Maribor University, Slovenia under the guidance of Prof. Dr. Lidija Fras-Zemljic; Technological Educational Institute of Western Macedonia, Kozani, Greece coordinated by Prof. Dr. Ioannis Zuburtikudis; and at Open Laboratory on Experimental Mechanics of Micro-and Nanomaterials, Bulgarian Academy of Sciences, Sofia, Bulgaria having fruitful collaboration with Prof. Dr. Rumiana Kotsilkova and her group of research.

Memberships

Editor for a Special Issue "Natural Additives for Special and High Performance Polymeric Materials" in *Polymers* journal. https://www.mdpi.com/journal/polymers/special_issues/Natural_Additives_polymers.
Reviewer for articles published in ISI quoted journals (peer review process) such as: *Nanomaterials*, *Materials Science and Engineering C*; *Surface Innovations*; *Journal of Bioactive and Compatible Polymers*; *International Journal of Polymer Science*; *Polymers*; *Materials*; *International Journal of Molecular Sciences*; *Journal of Polymers and the Environment*; *Materials Chemistry and Physics*; *Molecules*; *Food and Bioprocess Technology*. The activity as Elena Stoleru available on Publons website <https://publons.com/researcher/1361587/elena-stoleru/peer-review/>.

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