

Cibotaru Sandu



Born in Pelinia, Republic of Moldova on 22nd of September 1995

Actual place: Iasi, Romania

Nationality: Moldavian/Romanian

Civil status: Unmarried

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Languages: Romanian (mother tongue), Russian (excellent knowledge), English (good knowledge)

Education

- 2014-2017 Bachelor degree in Chemistry**
„Alexandru Ioan Cuza” University, Iasi, Romania; Faculty of Chemistry,
Specialization: Chemistry
Thesis supervisor: Lect. Dr. Laura Sarbu
Thesis title: “The obtaining of aromatic compounds from carbonyl compounds”
- 2017-2019 Master degree in Chemistry**
„Alexandru Ioan Cuza” University, Iasi, Romania; Faculty of Chemistry,
Specialization: Environmental Chemistry and Food Safety
Thesis supervisors: Lect. Dr. Dalila Belei
Thesis title: “New phenothiazine derivatives. Synthesis and applications”

Current position

- Sept. 2019- present**
Research assistant at “Petru Poni” Institute of Macromolecular Chemistry of Romania Academy, Laboratory of Polycondensation and Thermostable Polymers

Starting from 1 Nov 2019

- PhD student** at “Petru Poni” Institute of Macromolecular Chemistry of Romania Academy, Laboratory of Polycondensation and Thermostable Polymers
PhD supervisor: Dr. Luminita Marin
Thesis title: “New water-soluble phenothiazine derivatives. Synthesis, characterization, properties”

Participation in research projects

2018- Closing the bioeconomy value chains by manufacturing market demanded innovative bioproducts – **PROSPER** (PN-III-P1-1.2-PCCDI-2017-0569)

Scientific achievements

I started my research activity in 2017, at “Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Laboratory of Polycondensation and Thermostable Polymers as a volunteer. In the first year at “Petru Poni” Institute, I’ve gained remarkable knowledge in the field of phenothiazine chemistry and of its derivatives, specially designed for optoelectronic or biomedical applications. Since 2018, I was employed in the framework of the project PROSPER, being responsible for obtaining biologically and environmentally friendly phenothiazine derivatives with good optoelectronic properties, with the final aim to use them in the development of OLEDs. During this period, I’ve learned important techniques for the structural characterization of phenothiazine derivatives such as: $^1\text{H-NMR}$, FTIR Spectroscopy, UV-VIS and fluorescence spectroscopy. Moreover, working with amphiphilic phenothiazine compounds able to form micelles, I’ve got familiar with dynamic light scattering techniques (DLS).

Additional information –

Dissemination in international and national meetings

Poster: Sandu Cibotaru, Dalila Belei, Luminita Marin "Water soluble Phenothiazine derivatives", ICOSECS, 9th Edition, Targoviste, 8-11 May 2019

Poster: Sandu Cibotaru, Dalila Belei, Elena Bicu, Luminita Marin "Derivati de fenotiazina solubili in apa", Scientific communication session for students, 10th Edition, "Alexandru Ioan Cuza" University, Faculty of Chemistry, Iasi, 20-21 June 2019

Oral Comunication: Sandu Cibotaru, Dalila Belei, Luminita Marin "PEGylated phenothiazine derivatives as water soluble precursors for biomaterials", 13TH STUDENTS' CONGRESS OF SCTM, Skopje, 19-21 September 2019