

# Diana SERBEZEANU

## PERSONAL INFORMATION:

**NAME:** Diana

**SURNAME:** Serbezeanu

**DATA AND PLACE OF BIRTH:** 04. 10. 1984, Birlad, Vaslui, Romania

**NATIONALITY:** Romanian

**SOCIAL STATUS:** Married

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## EDUCATION:

### 2007–2011 **PhD Thesis**

Romanian Academy, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania. Thesis entitled “*Phosphorous-containing polymers for high performance materials*”. Under the supervision of **Dr. Maria Bruma**. Diploma Nr. 0000225.

### 2007–2009 **Master Diploma**

„Alexandru Ioan Cuza” University, Iasi, Romania. Organic Chemistry Section, Master in the field „The Chemistry and the Biochemistry of the Heterocyclic Compounds”. Thesis entitled „ *Phosphorous-containing polysulphone. Synthesis and Characterization*”. Under the supervision of **Prof. Dr. Ionel Mangalagiu**. Diploma Nr. 0046438.

### 2003–2007 **Graduation Diploma**

„Alexandru Ioan Cuza” University, Iasi, Romania. Faculty of Chemistry, Chemistry-Physics specialization. Thesis entitled „ HPLC. Applications in characterization of some pharmaceutical products”. Under supervision of Conf. Dr. Catinca Simion. Diploma Nr. 0110454.

### 1999–2003 **Highschool Diploma**

Theoretical Highschool „Mihai Eminescu”, Barlad, Romania.

## **PROFESSIONAL EXPERIENCE:**

### 2007–present **Research Assistant**

(8 years) “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania, Laboratory of Polycondensation and Thermostable Polymers. Expertise in and familiarity with the range of synthetic, purification and analytical methodologies required to carry out the synthesis and structural determination of a range of organic scaffolds.

Established collaboration terms and plan the work respecting the time constraints.

Participation to national and international conferences, as well as writing of scientific papers. A willingness to travel to partner laboratories for regular scheduled progress meetings and possibly some extended periods to carry out collaborative studies. Performed experimental work, data analysis and reporting.

### 2014 **Short Internship**

(10 days) Centre of Polymer and Carbon Materials, Zabrze-Gliwice, Poland. Bilateral collaboration Poland/Romania. Testing membrane properties of new polymers.

### 2013–2014 **Post-Doc**

(1 year) SCIEX Programme. Swiss Federal Laboratories of Materials Science and Technology (EMPA), Laboratory for Protection and Physiology (LPP). Design and synthesize of nanoporous membranes by electrospinning custom-made using soluble polyimides. Characterization from a morphological and functional point of view of the obtained nanofibrous structures. Performed experimental work, data analysis and reporting.

### 2013 **Short Internship**

(1 month) Technological Institute of Construction, 03660, AIDICO, Novelda-Alicante, Spain STREAM Grant. Investigation of flame resistance properties of new semi-interpenetrating polymer networks.

## **FOREIGN LANGUAGES:**

**English** (C2, excellent speaking, reading and writing skills); **French** (A2, good comprehension).

**Spanish** (B1, conversational); **Romanian** (native speaker).

## **AWARD:**

National Diploma of Excellence “Tineri Cercetatori in Stiinta si Inginerie”, 2015, Cluj Napoca, Romania.

## TECHNICAL SKILLS:

**Strong points:** excellent experimental skills in synthetic organic and macromolecular chemistry, self-motivation and ability to work independently and as part of an extended team.

**Experience in:** chemical synthesis, purification and characterisation techniques, <sup>1</sup>H NMR spectroscopy, FT-IR spectroscopy, SEM, TEM, DSC, TGA.

**IT:** Microsoft Office, Origin, Isis Draw.

## SCIENTIFIC WORK:

**34** published articles (coauthored), **1** patent application, **1** book, **3** conference, **21** oral communications, **24** poster presentations, **1** contract as project manager, **2** contracts as execution member.

Hirsch Index: **11**

## LIST OF PUBLICATIONS (selection):

1. Structure and properties of phosphorous – containing thermotropic liquid crystalline aliphatic – aromatic copolyesters.

**D. Serbezeanu**, T. Vlad-Bubulac, C. Hamciuc, M. Aflori.

*Macromolecular Chemistry and Physics*, **211**(13), 1460 – 1471, **2010**.

2. Synthesis and properties of novel phosphorus – containing thermotropic liquid crystalline copoly(ester imide)s.

**D. Serbezeanu**, T. Vlad-Bubulac, C. Hamciuc, M. Aflori.

*Journal of Polymer Science Part A: Polymer Chemistry*, **48**(23), 5391 – 5403, **2010**.

3. A straightforward, eco-friendly and cost-effective approach towards flame retardant epoxy resins  
I.-D. Carja, **D. Serbezeanu**, T. Vlad-Bubulac, C. Hamciuc, A. Coroaba, G. Lisa, C. Guillem Lopez, M. Fuensanta Soriano, V. Forrat Perez, M. D. Romero Sanchez

*Journal of Materials Chemistry A*, **2**, 16230 – 16241, **2014**.

4. Design and synthesis of polyimide-Gold nanofibers with tunable optical properties

**D. Serbezeanu**, A. M. Popa, I. Sava, I.-D. Carja, M. Amberg, R. M. Rossi, G. Fortunato

*European Polymer Journal*, **64**, 10-20, **2015**.

5. Preparation and characterization of thermally stable polyimide membranes by electrospinning for protective clothing applications

**D. Serbezeanu**, A. M. Popa, T. Stelzig, I. Sava, R. M. Rossi, G. Fortunato

*Textile Research Journal*, **85**(17), 1763–1775, **2015**.