Dr. AURICA FARCAS

"P.Poni" Institute of Macromolecular Chemistry
41 A Grigore Ghica Voda Alley
Iasi-Romania
Phone: +40 232 227454
Fax: +40 232 21 12 99
E-mail: auricafarcas@yahoo.com or afarcas@icmpp.ro
Currently, Aurica Farcas is a Senior Researcher PhD-Eng, Assoc. Prof. "P.Poni" Institute of Macromolecular Chemistry (ICMPP) Iasi-Romania

Aurica Farcas received her BA and a master degree (Summa Cum Laude) from "Gh. Asachi" Technical University of Iasi, Romania, in organic chemistry. In 1998 she obtained a PhD in the field of Polymer Chemistry (with honors), from ICMPP, focusing on the supramolecular assemblies of conductive polymers, particularly the synthesis, electrochemistry, doping, conductivity and optical properties, scientific interest which has continued to this day. She then spent 2001 as a postdoctoral scientist at Fraunhofer Institute for Angewandte Polymerforschung, Golm, Germany, working on the self-assembly of new semiconductive organic materials. In 2002-2003 she continued her training with Professor Harry W. Gibson at the Virginia Polytechnic Institute & State University Blacksburg, USA, where she was a National Science Foundation post-doctoral fellow in molecular self- assembly and molecular recognition. In 2004 she also received a new post-doctoral position in supramolecular chemistry at Heinrich Heine University Düsseldorf, Germany.

For her scientific work, Dr. Farcas has received multiple awards and recognitions, including the C. D. Nenitzescu Prize of the Romanian Academy (2010), an Attendance Certificate in a Technology Transfer Training from Wirtschaftsforderung und Technologietransfer Schleswig Holstein Gmbh (WTSH) Kiel, Germany (2005), German Academic Exchange Service (2004) and the Scientist Research Award from Fraunhofer Institute for Angewandte Polymerforschung Golm, Germany (2001). Since 2006 she has been a visiting Professor at Université d'Evry Val d'Essonne Evry, France and at Jacobs University Bremen, Germany. Also, since 2012 she has been an invited Professor at University Cergy-Pontoise, France.

She is a board member of the American Journal of Macromolecular Science of the Columbia International Publishing, member of the Society of Romanian Science, Marie Curie Fellowship Association and American Nano Society. Dr. Farcas is an author or co-author on over 60 research articles in peer-refereed journals, 40 articles published in non ISI journals, more than 30 articles published in volumes of international conferences, 1 Book on the topic of *Conjugated polymers with supramolecular complex structures*, 6 book chapters, more than 40 nationally and internationally research grants, 21 laboratory technologies with 3 of them with industrial applications, 18 invited lectures and 3 patents.

Results of collaborations with Laboratoire de Physicochimie des Polymères et des Interfaces (LPPI), Institut des Matériaux, Université de Cergy-Pontoise, France

Published papers in ISI journals

1. A. Farcas, A.-M. Resmerita, P.-H. Aubert, I. Ghosh, S. Cantin, W. M. Nau. Synthesis, Photophysical, and Morphological Properties of Azomethine-Persylilated α-Cyclodextrin Main-Chain Polyrotaxane. *Macromol. Chem. Phys.*, *216*, 662−670, **2015**

2. A. Farcas, P.-H. Aubert, J. Mohanty, A. I. Lazar, S. Cantin, W. M. Nau. Molecular wire formation from poly[2,7-(9,9-dioctylfluorene)-alt-(5,5`-bithiophene/cucurbit[7]uril)] polyrotaxane copolymer. *Eur. Polym. J.*, 62, 124-129, **2015**

3. G. Tregnago, A.-M. Resmerita, P.-H. Aubert, A. Farcas, F. Cacialli. Synthesis and Photophysical Characteristics of Polyfluorene Polyrotaxanes. accepted for publication in *Beilstein J. Org. Chem.*, **2015**

4. A. Farcas, A.-M. Resmerita, P.-H. Aubert, F. Farcas, I. Stoica, A. Airinei. The effect of Permodified Cyclodextrins Encapsulation on the Photophysical Properties of a Polyfluorene with Randomly Distributed Electron-donor and Rotaxane Electron-acceptor Units, *Beilstein J. Org. Chem.*, *10,* 2145–2156, **2014**

5. A. Stefanache, M. Balan, V. Harabagiu, P.-H. Aubert, P. Guegan, A. Farcas. Electro-optical properties of aromatic oligoazomethine/permethylated α-cyclodextrin main-chain polyrotaxanes, *Chem. Phys. Lett.,* 599, 104-109, **2014**

6. A. Farcas, G. Tregnago, A.-M. Resmerita, S. Taleb Dehkordi, S. Cantin, F. Goubard, P.-H. Aubert, F. Cacialli, Effect of permodified β-cyclodextrin on the photophysical properties of poly[2,7-(9,9-dioctylfluorene)-*alt*-(5,5′-bithiophene)] main-chain polyrotaxanes, *J. Polym. Sci. Part A: Polym. Chem.,* 52, 460-471, **2014**

7. A. Farcas, S. Janietz, V. Harabagiu, P. Guegan, P.-H. Aubert. Synthesis and electro-optical properties of polyfluorene modified with randomly distributed electron-donor and rotaxane electron-acceptor structural units in the main chain. *J. Polym. Sci. Part A: Polym. Chem.* 51, 1672–1683, **2013**

International Conferences

1. A. Farcas, A.- M. Resmerita, P.- H. Aubert. Effect of permodified cyclodextrin encapsulations on the photophysical properties of conjugated polyrotaxanes, EuroCD2015, 6-9 October, **2015**, Lille, France

2. A. Farcas, A.- M. Resmerita, P.- H. Aubert. The Effect of permodified γCD encapsulation on the photophysical properties of a polyfluorene modified with randomly distributed electron-donor and electron-acceptor structural units, ICS17 Congress, 29-31 May, **2014**, Saaarbrucken, Germany

3. A. Farcas, A. C. Stefanache, V. Harabagiu, P.-H. Aubert. Photophysical properties of polyfluorene modified with randomly distributed electron-donor and rotaxane electron-acceptor structural units in the main chain, *EPF Congress,* 16-21 iunie, **2013**, *Pisa, Italy*