



### **Dr. AURICA FARCAS**

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Currently, Aurica Farcas is a Senior Researcher PhD-Eng "P.Poni" Institute of Macromolecular Chemistry, Iasi-700487, Romania

### **RESEARCH INTERESTS**

- \* Supramolecular chemistry (molecular recognition, conjugated polyrotaxane synthesis)
- \* Photophysical of conjugated polyrotaxanes for optoelectronic applications (PLEDs and photovoltaics)

### **EDUCATION**

PhD Thesis: Polyrotaxanes with Conjugated Polymers; Postdoctoral Research Fellows: Synthetic approaches to new calixarene derivatives, Heinrich-Heine University Düsseldorf, Germany; Supramolecular self-assembly: chain extension, star and block polymers via pseudorotaxane formation from well-defined end-functionalized polymers, Virginia Polytechnic Institute & State University Blacksburg, USA; Conjugated polymers for electrochemical cells, Fraunhofer Institute for Angewandte Polymerforschung, Golm, Germany.

### **AWARDS & RECOGNITION**

- \*C. D. Nenitzescu Prize of the Romanian Academy (2010)
- \*Visiting Scientist in Organic Chemistry, Jacobs University Bremen, Germany (since 2008)
- \*Invited professor or researcher, Université d'Evry Val d'Essonne from Evry, France (2006-2011)
- \* Invited professor, Université Cergy-Pontoise from Cergy, France (since 2012)
- \*Attendance Certificate in a Technology Transfer Training, from Wirtschaftsförderung und Technologietransfer Schleswig Holstein GmbH (WTSH) Kiel, Germany (2005)
- \*German Academic Exchange Service (DAAD) Research Fellowship in Electroconducting Polymers, Fraunhofer Institute for Angewandte Polymerforschung Golm, Germany (2004)
- \*Certificate of Achievement in recognition of the successful work from Fraunhofer Institute for Angewandte Polymerforschung Golm, Germany (2001)

### **SELECTED PUBLICATIONS**

- \* A. Farcas, G. Tregnago, A.-M. Resmerita, S. Taleb Dehkordi, S. Cantin, F. Goubard, P.-H. Aubert, F. Cacialli. Effect of permethylated  $\beta$ -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.*, JPOL-A-13-0619, **2013**
- \* 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**
- \* A. Farcas, I. Stoica, A. Stefanache, C. Peptu, F. Farcas, N. Marangoci, L. Sacarescu, V. Harabagiu, P. Guégan. Surface properties of conjugated main-chain polyrotaxanes *Chem. Phys. Lett.*, **508**, 111-116, **2011**
- \* A. Farcas, N. Jarroux, V. Harabagiu, P. Guegan. Synthesis and characterization of a poly [2,7-(9,9-dioctylfluorene)-*alt*-2,7-fluorene/ $\beta$ -CD]] main chain polyrotaxane *Eur. Polym. J.*, **45**, 795–803, **2009**
- \* A. Farcas, N. Jarroux, I. Ghosh, P. Guegan, W. M. Nau, V. Harabagiu. Polyrotaxanes of pyrene–triazole conjugated azomethine and  $\alpha$ -cyclodextrin with high fluorescence properties *Macromol. Chem. Phys.*, **210**, 1440–1449, **2009**