

Aurica FARCAS: A brief biographical sketch

Personal information

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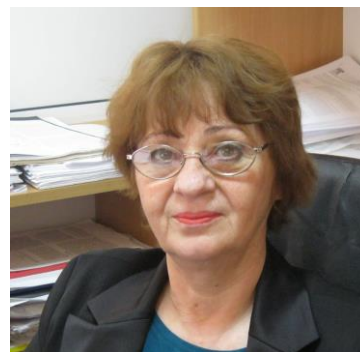
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Aurica Farcas received her BA and a master degree (Summa Cum Laude) from "Gh. Asachi" Technical University of Iasi, Romania, in organic chemistry. In 1998 she obtained a PhD in the field of Polymer Chemistry (with honors), from ICMPP, focusing on the supramolecular assemblies of conductive polymers, particularly the synthesis, electrochemistry, doping, conductivity and optical properties, scientific interest which has continued to this day. Then, A. Farcas received a postdoctoral position at Fraunhofer Institute for Angewandte Polymerforschung, Golm-Germany, working on the self-assembly of new semiconductive organic materials (2001). 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.

Since 2006, A. Farcas has received by contest invited professor/collaborator positions at the University d'Evry Val d'Essonne, Evry-France; School of Engineering and Science, Jacobs University, Bremen-Germany; Cergy-Pontoise University, Cergy-France and the London Centre for Nanotechnology-UK. Currently, A. Farcas is Prof. at ICMPP Iasi-Romania

For her scientific work, A. 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).

She is a board member of Frontiers Chemistry-Supramolecular Chemistry, 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 (2012-2013). From the year 2007, she is International/National Expert Evaluator as well scientific peer reviewer on the theme at international journals with high impact factor.

Main-author on over 70 research articles in ISI journals, 40 articles published in non ISI journals, more than 30 articles published in volumes of international conferences, 2 books on the topic of *Conjugated Polyrotaxanes*, 6 book chapters, more than 40 nationally and internationally research grants, 21 laboratory technologies with 3 of them with industrial applications, 23 invited lectures and 3 patents.

Aurica FARCAS: most relevant publications with LPPI and LAMBE in the field of the project proposal

1. H. Ouldali, A. Oukhaled, A. Farcas, Exploring interactions of poly(3,4-ethylenedioxythiophene/cucurbit[7]uril) polypseudorotaxane with aerolysin nanopore, *Chem. Commun.*, CC-COM-09-2019-007135, 2019 (invited paper in a themed issue entitled "Cucurbiturils and related cavitands")
2. A. Farcas, K. I. Assaf, A.-M. Resmerita, L. Sacarescu, M. Asandulesa, P.-H. Aubert, W. M. Nau, Cucurbit[7]uril-threaded poly(3,4-ethylenedioxythiophene): A novel processable conjugated polyrotaxane, *Eur. J. Org. Chem.*, 2019, 3442–3450, 2019 (invited paper in a special Issue dedicated to 50 years of Rotaxanes)
3. T. Putnina, H. Lec, T.-T. Bui, J. Jakmune, K. Ounnunkad, S. Peralta, P.-H. Aubert, F. Goubard, A. Farcas, Poly(3,4-ethylenedioxythiophene/permethylated β -cyclodextrin) polypseudorotaxane and polyrotaxane: Synthesis, characterization and application as hole transporting materials in perovskite solar cells, *Eur. Polym. J.*, 105, 250–256, 2018
4. A. Farcas, P.-H. Aubert, Electrochemical studies of conjugated polyrotaxanes and their unthreaded analogs, *Encycl. Phys. Org. Chem.*, Wiley, pp. 2583–2619, 2017 (Book Chapter)
5. A. Farcas, K.I. Assaf, A.-M. Resmerita, S. Cantin, M. Balan, P.-H. Aubert, W.M. Nau, Cucurbit[7]uril based fluorene polyrotaxanes. *Eur. Polym. J.*, 83, 256–264, 2016
6. A. Farcas, A.-M. Resmerita, P.-H. Aubert, I. Ghosh, S. Cantin, W. M. Nau. Synthesis, photophysical, and morphological properties of azomethine-persilylated α -cyclodextrin main-chain polyrotaxane. *Macromol. Chem. Phys.*, 216, 662–670, 2015
7. A. Farcas, G. Tregnago, A.-M. Resmerita, P.-H. Aubert, F. Cacialli, Synthesis and photophysical characteristics of polyfluorene polyrotaxanes, *Beilstein J. Org. Chem.*, 11, 2677–2688, 2015
8. A. Farcas, P.-H. Aubert, J. Mohanty, A. I. Lazar, S. Cantin, W. M. Molecular wire formation from poly[2,7(9,9-dioctylfluorene-*alt* (5,5'-bithiophene/cucurbit[7]uril)] polyrotaxane copolymer. *Nau. Eur. Polym. J.*, 62, 124-129, 2015
9. 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
10. 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