

Prof. Dr. Felix H. Schacher

Year of birth: 1980
Position: Professor (W2), Chemistry
Address: Institute of Organic Chemistry and Macromolecular Chemistry (IOMC) and Jena Center for Soft Matter (JCSM)
Friedrich-Schiller-University Jena
Lessingstrasse 8, D-07743 Jena, Germany
+49 (0)3641/9-48250 / +49 (0)3641/9-48252
Tel. / Fax:
E-Mail: felix.schacher@uni-jena.de
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Privatadresse : Neugasse 8, D-07743 Jena

Research areas

Polymer synthesis (controlled/living methods), block copolymers, self-assembly, nanostructured and/or hierarchically structured materials, responsive membranes, hybrid particles;

Education and academic career

2015-today W2-Professor, FSU Jena
2014 Positive interim evaluation
2010-2015 W1-Juniorprofessor, FSU Jena
2011 Guest scientist at Kyoto Institute of Technology (Prof. Hiroshi Jinnai)
2009-2010 Postdoc, University of Bristol/United Kingdom (Prof. Ian Manners)
2006-2009 PhD, Universität Bayreuth (Prof. Axel H. E. Müller)
2006 Diploma (Chemistry), Universität Bayreuth
2001-2006 Studies in chemistry, Universität Bayreuth and Lund University (Sweden)

Scientific achievements and awards

- 126 publications in peer-reviewed journals, ~ 3500 citations, H-index: 32 (Source: Google Scholar 07/16);
- One book chapter, Co-Editor of one book (*Metallosupramolecular Materials*, RSC 2015)
- Guest Editor of one special issue in *Polymers* (MDPI)
- Associate Editor (*ePolymers*), Member of the Editorial Advisory Board (*Polymer Chemistry*)
- Young investigator award of the *International Polymer Networks Group* (2014)
- Young investigator award of the *Fachgruppe Makromolekulare Chemie* (2014)
- Dr. Hermann Schnell-fellowship of the *GDCh* (2013)
- Young investigator fellowships of the *VCI* (2010, 2012, 2013)
- Postdoc-fellowship of the *DAAD* (2009-2010)
- Otto-Warburg-Award for the fastest diploma in chemistry, Universität Bayreuth, 2006
- ERASMUS-fellowship (2004-2005)

10 important (recent) publications

- A. T. Press, A. Ramoji, A. C. Rinkenauer, M. vd Lühe, J. Hoff, M. Butans, C. Rössel, C. Pietsch, U. Neugebauer, F. H. Schacher, M. Bauer, "Cargo-Carrier Interactions Significantly Contribute to Micellar Conformation and Biodistribution", *NPG Asia Materials* **2017**, 9, e444.
- F. Wendler, K. R. A. Schneider, B. Dietzek, F. H. Schacher, "Light-Responsive Terpolymers Based on Polymerizable Photoacids", *Polym. Chem.* **2017**, 8, 2959-2971.
- M. Billing, F. H. Schacher, "ATRP of 2-tert-butoxycarbonylaminoacrylic acid Methyl ester (tBAMA): well defined precursors for polyelectrolytes of tunable charge", *Macromolecules* **2016**, 49, 3696-3705.
- T. Rudolph, M. v. d. Lühe, M. Hartlieb, S. Norsic, U. S. Schubert, C. Boisson, F. D'Agosto, F. H. Schacher, "Towards anisotropic hybrid materials: Directional crystallization of amphiphilic polyoxazoline-based triblock terpolymers", *ACS Nano* **2015**, 9, 10085-10098.
- C. Hörenz, T. Rudolph, M. J. Barthel, U. Günther, F. H. Schacher, "Amphiphilic polyether-based block copolymers as crosslinkable ligands for Au nanoparticles", *Polym. Chem.* **2015**, 6, 5633-5642.
- T. Rudolph, N. K. Allampally, G. Fernandez, F. H. Schacher, "Controlling aqueous self-assembly mechanisms via hydrophobic interactions", *Chem. Eur. J.* **2014**, 20, 13871-13875.

M. J. Barthel, A. C. Rinkenauer, M. Wagner, U. Mansfeld, S. Hoepfner, J. A. Czaplewski, M. Gottschaldt, A. Träger, F. H. Schacher, U. S. Schubert, "Small but powerful: Co-assembly of polyether-based triblock terpolymers into sub-30 nm micelles and synergistic effects on cellular interactions", *Biomacromolecules* **2014**, 15, 2426-2439.

A. C. Rinkenauer, A. Schallon, U. Günther, M. Wagner, E. Betthausen, U. S. Schubert, F. H. Schacher, "A paradigm change: Efficient transfection of human leukemia cells by stimuli-responsive multicompartiment micelles", *ACS Nano* **2013**, 7, 9621-9631.

A. H. Gröschel, A. Walther, T. I. Löblich, F. H. Schacher, H. Schmalz, A. H. E. Müller, "Guided hierarchical co-assembly of soft patchy particles", *Nature* **2013**, 503, 247-251.

T. Rudolph, K. Kempe, S. Crotty, R. M. Paulus, U. S. Schubert, I. Krossing, F. H. Schacher, "A strong cationic Brønsted acid, $[H(OEt_2)_2][Al[OC(CF_3)_3]_4]$, as an efficient initiator for the cationic ring-opening polymerization of 2-alkyl-2-oxazolines", *Polym. Chem.* **2013**, 4, 495-505.