

Name Prof. Dr. Andreas Greiner

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Chair of Macromolecular Chemistry II
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Date of birth August 5, 1959

Education 1995 Habilitation in Macromolecular Chemistry, U Marburg
1986-1988 Dr. rer.nat., U Marburg: *Palladiumkatalysierte Synthese von Polyarylenvinylenen mit Olefinen und Halogenaromaten* Titel
1980-1986 Study of Chemistry, U Marburg

Academic Career since 2012 Professor, Chair of Macromolecular Chemistry II, U Bayreuth
2000-2012 Professor for Macromolecular Chemistry and Technology, U Marburg
1999-2000 Associate Professor for Macromolecular and Organic Chemistry, U Mainz
1996-1999 University Lecturer, Department of Chemistry, U Marburg
1995-1996 Adjunct Professor, Department of Chemistry, U Marburg
1989-1990 Postdoc, U Santa Barbara, USA

Research Topics Monomer and polymer synthesis; Electrospinning of polymer nanofibers; Polymer-functionalized nanoparticles; Artificial molecules; Functional polymer dispersions; Poly(p-xylylene)s (parylene); Functional polymer dispersions, polymers for coatings, filtration, textiles, medicine, pharmacy, and agriculture, antibacterial; Superhydrophobic polymers; Light weight foams; Living membranes

Project Coordination & Editorial Work since 2013 Editor-in-Chief of *e-Polymers* (De Gruyter)
since 2012 Chairman of the executive board of polymer section BAYNAT (U Bayreuth)
2011-2016 DFG Review Board, Polymerforschung
2009-2016 Board of Fachgruppe Makromolekulare Chemie (GDCh)
Board of Fachsektion Nanotechnologie (Dechema)
since 2008 Board of Förderverein Chemikum (Marburg)
since 2006 Board of Hermann-Schnell-Stiftung (GDCh)
2003-2004 Alternate director of the Scientific Center for Materials Science (U Marburg)
since 2003 Board of Initiative Bio- und Nanotechnologie (Marburg)
since 2000 GDCH District Chairman
since 2016 Member of 111 project Donghua University, China
2016/2017 Speaker of Fachgruppe Chemie, U Bayreuth

Honors and Awards 2014-2019 Visiting Professor Nanchang Normal University, China
2015-2018 Visiting Professor Donghua University, China
2002 Steinhof Lecture (U Freiburg)
1999 Arthur K. Doolittle Award

Publications

> 330 publications, h-index: 58, > 50 citations/paper

10 most important publications

1. O. Hauenstein, S. Agarwal, A. Greiner: Bio-based polycarbonate as synthetic toolbox
Nat. Commun. **7**, 11862 (2016)
2. G. Duan, S. Jiang, V. Jérôme, J. H. Wendorff, A. Fathi, J. Uhm, V. Altstädt, M. Herling, J. Brey, R. Freitag, A. Greiner: Ultralight, soft polymer sponges by self-assembly of short electrospun fibers in colloidal dispersions
Adv. Funct. Mater. **25**, 2850-2856 (2015)
3. Z. Fan, M. Köhn Serrano, A. Schaper, S. Agarwal, A. Greiner: Polymer/nanoparticle hybrid materials of precise dimensions by size-exclusive fishing of metal nanoparticles
Adv. Mater. **27**, 3888-3893 (2015)
4. F. Mitschang, H. Schmalz, S. Agarwal, A. Greiner: Tea-bag-like polymer nanoreactors filled with gold nanoparticles
Angew. Chem. Int. Ed. **53**, 4972-4975 (2014)
5. S. Agarwal, A. Greiner, J. H. Wendorff: Functional materials by electrospinning of polymers
Prog. Poly. Sci. **38**, 963-991 (2013)
6. S. Chen, H. Hou, F. Harnisch, S. A. Patil, A. A. Carmona-Martinez, S. Agarwal, Y. Zhang, S. Sinha-Rey, A. L. Yarin, A. Greiner, U. Schröder: Electrospun and solution blown three-dimensional carbon fiber nonwovens for application as electrodes in microbial fuel cells
Energy Environ. Sci. **4**, 1417-1421 (2011)
7. A. Greiner, J. H. Wendorff: Electrospinning: A fascinating method for the preparation of ultrathin fibres
Angew. Chem. Int. Ed. **46**, 5670-5703 (2007)
8. A. Baudler, I. Schmidt, M. Langner, A. Greiner, U. Schröder: Does It Have to Be Carbon? Metal Anodes in Microbial Fuel Cells and Related Bioelectrochemical Systems, **Energy Environ. Sci.** **8**, 2048-2055 (2015).
9. S. Reich, M. Burgard, M. Langner, S. Jiang, X. Wang, S. Agarwal, B. Ding, J. Yu, A. Greiner: Polymer nanofibre composite nonwovens with metal-like electrical conductivity
npj Flexible Electronics DOI: 10.1038/s41528-017-0018-5 (2018).
10. M. Steinhart, J. H. Wendorff, A. Greiner, R. B. Wehrspohn, K. Nielsch, J. Schilling, J. Choi, U. Gösele: Polymer nanotubes by wetting of ordered porous templates
Science **296**, 1997 (2002)