

**SYNOPSIS: ANDREAS GREINER****1. Personal data:****Date of Birth:** 5. August 1959**Address** University of Bayreuth  
Chair of Macromolecular Chemistry II  
Universitätsstraße 30, 95440 Bayreuth  
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**Phone:** +49 921 55-3399; **Fax:** +49 921 55-3393  
**Web:** <http://www.mcii.uni-bayreuth.de/en/index.html>**2. Curriculum vitae****Education**

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| 1980 - 1986 | Diploma in Chemistry, Department of Chemistry, University of Marburg, Germany.             |
| 1986 - 1988 | Ph. D. in Polymer Chemistry, Department of Chemistry, University of Marburg.               |
| 1989 - 1990 | Postdoc at the University of California, Santa Barbara, USA.                               |
| 1990 - 1995 | Habilitation for Macromolecular Chemistry, Department of Chemistry, University of Marburg. |

**Professional experience**

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| 1995 - 1996     | Adjunct professor, Department of Chemistry, University of Marburg.                |
| 1996 - 1999     | University lecturer, Department of Chemistry, University of Marburg.              |
| 1999 - 2000     | Associate Professor for Macromolecular and Organic Chemistry, University of Mainz |
| 2000-2012       | Full professor for Macromolecular Chemistry and Technology, University of Marburg |
| since Oct. 2012 | Full professor for Macromolecular Chemistry, University of Bayreuth,              |
| since Nov. 2013 | Head of Department "Future Solutions" in New Materials Bayreuth                   |

**Awards and other professional responsibilities**

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| 1999        | Arthur K. Doolittle Award  |
| 2000        | GDCh District Chairman   |
| 2002        | Steinhofer lecture, University of Freiburg   |
| 2003-2014   | Board of the Initiative Bio- und Nanotechnologie (Marburg)   |
| 2003-2004   | Alternate director of the Scientific Center for Materials Science, University of Marburg                                   |
| since 2006  | Board of the Hermann-Schnell-Stiftung of GDCh  |
| 2008 - 2014 | Board of the Förderverein Chemikum (Marburg)   |
| since 2009  | Board of the <i>Fachgruppe Makromolekulare Chemie</i> , GDCh<br>Board of the <i>Fachsektion Nanotechnologie</i> of Dechema |
| since 2011  | DFG Review Board for Polymer materials   |
| since 2012  | Chairman of the executive board of polymer section BayNAT, University of Bayreuth  |
| since 2013  | Editor-in-Chief of e-Polymers  |
| 2014-2019   | Visiting Professor Nanchang Normal University, China   |

### 3. Research profile

Present research topics are general monomer and polymer synthesis, reaction catalysis, electrospinning of polymer nanofibers, polymer-functionalized nanoparticles, artificial molecules, poly(p-xylylene)s, functional polymer dispersions, polymers for coatings, filtration, textiles, medicine, drug release, and agriculture, antibacterial, superhydrophobic polymers, light weight foams, living composites, biobased polymers.

### 4. 10-year track-record

- Scientific papers > 290; granted patents > 20; Scientific lectures > 200
- H-Index 52; m-Index: 2.00; > 11.000 citations; 42.5 citations/paper.
- Ranking Materials Scientists No. 36 / 500.000 (Thomson / Reuters 2010; <http://www.sciencewatch.com/dr/sci/misc/Top100MatSci2000-10/>)

#### 10 selected publications since 2000

- 1. Polymer/Nanoparticle Hybrid Materials of Precise Dimensions by Size-Exclusive Fishing of Metal Nanoparticles**  
Z. Fan , M. Köhn Serrano , A. Schaper , S. Agarwal , A. Greiner, *Adv. Mater.* **2015**, DOI: 10.1002/adma.201501306
- 2. Does it have to be carbon? Metal anodes in microbial fuel cells and related bioelectrochemical systems.**  
A. Baudler, I. Schmidt, M. Langner, A. Greiner, U. Schröder, *Energy Environ. Sci.* **2015**, DOI: 10.1039/c5ee00866b
- 3. Ultralight, Soft Polymer Sponges by Self-Assembly of Short Electrospun Fibers in Colloidal Dispersions.**  
G. Duan , S. Jiang , V. Jérôme , J. H. Wendorff , A. Fathi, J. Uhm , V. Altstädt , M. Herling, J. Breu, R. Freitag , S. Agarwal, A. Greiner, *Adv. Funct. Mater.* **2015**, *25*, 2850 – 2856.
- 4. Design of Soft Materials from Triblock Co-Oligomers and Metal Nanoparticles.**  
H. Pletsch, M. J. Schnepf, S. Agarwal, *Chem. Mater.* **2014**, *26*, 4805-4811.
- 5. Tea- Bag- Like Polymer Nanoreactors Filled with Gold Nanoparticles.**  
F. Mitschang, H. Schmalz, S. Agarwal, A. Greiner *Angew. Chem. Int. Ed.* **2014**, *53*, 4972-4975.
- 6. Chameleon nanofibers by Green Electrospinning.**  
E. Giebel, C. Mattheis, S. Agarwal, A. Greiner, *Adv. Funct. Mater.* **2013**, *23*, 3156-3163.
- 7. Functional Materials by Electrospinning of Polymer.**  
S. Agarwal, A. Greiner, J. H. Wendorff, *Progress in Polymer Science* **2013**, *38*, 963-991.
- 8. Electrospun and solution blown three-dimensional carbon fiber nonwovens for application as electrodes in microbial fuel cells.**  
S. Chen, H. Hou, F. Harnisch, S. Patil, A. A. Carmona-Martinez, S. Agarwal, Y. Zhang, S. Sinha-Rey, A. Yarin, A. Greiner, U. Schröder, *Energy Environ. Sci.* **2011**, *4*, 1417-1421.
- 9. Precisely Designed Gold Nanoparticles by Surface Polymerization – Artificial Molecules as Building Blocks for Novel Materials.**  
S. Bokern, K. Gries, H.-H. Görtz, V. Warzelhan, S. Agarwal, A. Greiner, *Adv. Funct. Mater.* **2011**, *21*, 3753-3759.
- 10. Polymer nanotubes via wetting of ordered porous templates..**  
M. Steinhart, J. H. Wendorff, A. Greiner, R. B. Wehrspohn, K. Nielsch, J. Schilling, J. Choi, U. Gösele, *Science* **2002**, *296*, 1997.