Curriculum vitae

PERSONAL INFORMATION

Family name, First name: Prof. Dr. Landfester, Katharina
H index: 130 (Google scholar) / 106 (Web of Science); Researcher ID F-9449-2011,
Rank 24 in Best Female Scientists in Germany 2025/26 Ranking (Research.com)
Date of birth: June 11, 1969
Nationality: German, married, 2 children
URL for web site: http://www.mpip-mainz.mpg.de/physical_chem_of_polymers

- **CURRENT POSITION(S)**

2026 -	Managing Director of the Max-Planck-Institute for Polymer Research, Mainz, Germany
2022 -	Cofounder of StartUp Company Lignilabs
2008 -	Director, Max Planck Institute for Polymer Research, Physical Chemistry of Polymers, Mainz, Germany
2008 -	Professor, Department of Chemistry, Johannes Gutenberg University, Mainz, Germany
2012 - 2014	Managing Director of the Max-Planck-Institute for Polymer Research, Mainz, Germany

- **PREVIOUS POSITIONS**

2003 - 2008	C4 professor (full professor) at the University of Ulm, Chair of the Department for Organic Chemistry III- Macromolecular Chemistry and Organic Materials
1998 - 2003	Group leader (equivalent to an assistant professor) of the group "Miniemulsions" at the Max Planck Institute of Colloids and Interfaces in the department "Colloid chemistry" (head of the department: Prof. Dr. M. Antonietti)
1996-1997	Postdoctoral Researcher at Lehigh University, Bethlehem, PA, USA

- **EDUCATION**

2002	Habilitation in *Physical Chemistry* at the University of Potsdam, Germany
1995	Ph.D., in the group of Prof. Dr. H.W. Spiess at the Max Planck Institute for Polymer Research in Mainz, Johannes Gutenberg University Mainz, Germany.
1993	Diploma, Technical University of Darmstadt, Germany

- **FELLOWSHIPS AND AWARDS**

2025	Elected member of the *Akademie der Wissenschaften und der Literatur Mainz*
2025	Dr, Ursula Grübler-Schoch Preis
2025	together with LigniLabs GmbH: 1st prize Startup Pioneer Prize
2024	Liebig-Denkmünze, Gesellschaft Deutscher Chemiker
2024	Liesegang Prize, Kolloidgesellschaft
2020	DB Robinson Lecturer, University of Alberta, Canada
2020	Howard Fellow Lecturer, UNSW Sydney Australia
2014	Bayer Lecturer, Texas A & M University, College Station, USA
2012	Bruno-Werdelmann-Lecturer, University Duisburg-Essen, Germany
2011	Elected member of the *National Academy of Science and Engineering* (ACATECH)
2002 - 2007	Elected member of the *Young Academy* of the *Berlin Brandenburg Academy of Science* and the *National Academy of Sciences Leopoldina*
2001	Reimund-Stadler award by the German Chemical Society (GDCh), Department Macromolecular Chemistry
2001	Scholarship of the Dr. Hermann Schnell foundation
1998-2000	Scholarship (Liebig) of the Chemical Industry Fund (FCI) at the Max Planck Institute of Colloids and Interfaces, Potsdam, Germany
1996/97	Scholarship from German Research Foundation (DFG)for a research stay at Lehigh University, PA, US in the group of Prof. M. El-Aasser
1995	Award of the *Chemical Industry Fund* (FCI)
1994/95	German academic exchange service (DAAD) scholarships for research stays at the Ecole d'Application des Hauts Polymères in Strassbourg, France (Prof. Dr. M.Lambla)
1992/93	German academic exchange service (DAAD) scholarship

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

2008 -	45 postdocs, 111 PhD students, 71 diploma/master students Max Planck Institute for Polymer Research/University of Mainz, Germany
2003 - 2008	6 postdocs, 27 PhD students, 42 diploma students University of Ulm, Germany
1998 - 2003	5 postdocs, 6 PhD students

Max Planck Institute of Colloids and Interfaces/University of Potsdam, Germany

- **TEACHING ACTIVITIES**

2003 - 2008 Assistant - Macromolecular Chemistry, University of Potsdam, Germany
2003 - 2008 Professor - Macromolecular Chemistry, University of Ulm, Germany
2008 - Professor - Macromolecular Chemistry, Johannes Gutenberg University Mainz, Germany

- **ORGANISATION OF SCIENTIFIC MEETINGS**

2025 Organizing Committee, "Intern. Symposium of the SFB1066 – Nanomaterials for Tumor Immunotherapy"
2016 Organizing Committee, "3D printing", Mainz Germany, 250 participants
2016 Main organizer, "Chemical Design – Biomedical Applications", Mainz, Germany, 150 participants
2014 Organization Committee EuCheMS, Istanbul (ECC5), Turkey, 1200 participants

- **INSTITUTIONAL RESPONSIBILITIES**

2019 - Fellow of the Max Planck School Matter to Life
2013 - 2025 Co-speaker of the Collaborative Research Center "Nanodimensional polymeric therapeutics for the tumor therapy", MPIP in collaboration with the University of Mainz, Germany
2009 - Member of the Steering Committee Max Planck Graduate Center (MPGC), Mainz, Germany
2009 - 2016 Member of the Steering Committee Gutenberg Research College (GfK), University of Mainz, Germany
2009 - 2018 Member of the Steering Committee Graduate School Materials in Science (MAINZ), Mainz, Germany
2008 - 2016 Member of the Perspective Commission of the Max Planck Society, Munich, Germany
2004 - 2006 Dean of Studies for Chemistry at the University of Ulm

- **COMMISSIONS OF TRUST**

2022- Member of Scientific Advisory Board, Leibniz Institute for New Materials, Saarbrücken
2022 - Member of the Board of Trustees of the Bingen Technical University of Applied Sciences
2020 Research Advisory Board of VCI Germany (*German Federation of the Chemical Industry*)
2016 - Advisory Board of the *Institut für Verbundwerkstoffe GmbH*, Kaiserslautern, Germany
2013 - Speaker of the *Schiemann College*, München
2011 - Board of Trustees *Freiburg Materials Research Centre* (FMF), Freiburg, Germany
2010 - Committee *Polymers*, an Initiative of DECHEMA and VDI-GVC, Germany
2009 - Council of Technology Rhineland-Palatinate, Germany
2016 - 2023 Executive Board, *German Chemical Society* (GDCh), Germany
2016 - 2023 GDCh Selection Committee of the Hermann-Staudinger Award, Germany
2015 - 2023 Scientific Advisory Board of the *Leibniz Institute for Polymer Research Dresden e.V.* (IPF), Dresden, Germany
2015 - 2022 Selection Committee of the GDCh Otto-Hahn Award, Germany
2014 - 2019 Board of Trustees of VCI Germany (*German Federation of the Chemical Industry*)
2010 - 2018 Central Selection Committee of the *Alexander von Humboldt Foundation*, Bonn, Germany
2009 - 2013 Board of Trustees *Plastics Research Association*, Darmstadt, Germany
2008 - 2016 GDCh Selection Committee for *Liebig Denkmünze*, Germany
2008 - 2013 Consulting Committee FRIAS (*Freiburg Institute for Advanced Studies*), Freiburg, Germany
2007 - 2015 GDCh Executive Board, Section Macromolecular Chemistry, Germany
2003 - 2004 Speaker of the *Young Academy of the Berlin-Brandenburg Akademie der Wissenschaften und Leopoldina*

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2021- Fellow of the *Royal Society of Chemistry*
2008 - Member, *American Chemical Society* (ACS)
1989 - Member, *German Chemical Society* (GdCh)

- **EDITORIAL BOARDS**

Editorial Board Chair	Nanoscale Horizons
Council Member	Angewandte Chemie
Editorial Board	Colloid Polymer Science; J. of Polymer Science A: Polymer Chemistry
Intern. Advisory Board	Macromolecular Chemistry and Physics
Editorial Advisory Board	RSC-Polymer Chemistry; Polymer
Advisory Board	Materials Horizons, Nanoscale Horizons

Ten years track-record

I have more than 900 publications, in the **past 10 years** I have published **607 original research papers**. Among these, **120 papers have appeared in highly ranked journals** (IF > 10): 12 *Nature Family Journals*.; 41 *Angew. Chem.*; 16 *ACS Nano*; 8 *JACS*; 7 *NanoLetters*; 9 *Adv. Funct. Mater.*; 12 *Small*; 9 *Nanoscale Horizons*; 10 *Adv. Sci.; 9 Chem. Mater.;* 15 *Adv. Mater.*; 6 *Chem. Soc. Rev.*; 3 *ACS Catalysis*, 1 *Chem. Rev.*). According to Google Scholar Web of Science (WOS), my H-Index is **106** (Web of Science) and **129** (Google Scholar) with >**68000** citations in Google Scholar. 12 papers are listed as "highly cited papers" (WOS). In summary, 112 papers have more than 100 citations, 739 papers have more than 10 citations.

2. Granted patents

I hold **over 50 patents** (40 from the last 10 years), the most important ones are listed below:

1. Nanocapsules and process for their production, Date of filing: 23.03.2007, EP 1 972 651 B1
2. Paint dispersions containing pigments, and W/O emulsions as precursors for providing the paint dispersions, Date of filing: 12.03.2012, WO 2012/126750 A2
3. Enzyme-containing mini-emulsions, Date of filing: 14.03.2013, US 8,883,465 B2
4. Capsule, namely nanocapsule, microcapsule or macrocapsule, having a very low oxygen permeability, Date of filing: 04.29.2015, EP 2865443 A1
5. Long-term stable photoactive composition, such as phosphorescent composition or TTA-photon upconversion composition comprising a singlet oxygen inhibitor compound with terminal unsaturated carboncarbon bonds as solvent, Date of filing: 04.02.2015, WO 2015044129 A1
6. Adsorption von Antikörper an die Oberfläche von Nanopartikeln; Date of filing: 08.05.2018; Europäische Patentanmeldung Nr. 18 171 351.2
7. Lignin Biomaterial as Agricultural Drug Carrier, Date of filing: 06.02.2017, WO002017134308A1

3. Invited presentations to peer reviewed, internationally established conferences

Within the last 10 years, I have been invited to **more than 120 internationally established conferences** and symposia to deliver invited talks of which were 14 plenary talks and 20 keynote lectures. A selection is listed below:

2026 Plenary lecture International Conference on Nanoscience and Nanotechnology (ICONN2026)
2025 Nanomaterials for Tumor Immunotherapy (Mainz, GER)
2024 Plenary lecture, Soft Matter 20th Anniversary conference, Lyon, France
2024 Plenary lecture, Horizons Symposium, Beijing, China
2022 Plenary lecture, IUPAC-MACRO 2022, Winnipeg, Canada
2019 Plenary lecture, Paccon 2019, Bangkok, Thailand
2019 Plenary lecture, Polymers in Medicine, Prague, Czech Republic
2017 Plenary lecture, Emerging Polymer Technologies Summit, Melbourne, Australia
2017 Plenary lecture, IUPAC World Chemistry Congress, Sao Paolo, Brasil

Organisation of international conferences

2025 Organizing committee, Symposium "Nanomaterials for Tumor Immunotherapy", Mainz, Germany
2016 Organizing committee, "2nd International Conference on 3D Printing in Medicine", Mainz Germany
2016 Main organizer, "Chemical Design – Biomedical Applications", Mainz, Germany
2014 Organization Committee EuCheMS, Istanbul (ECC5), Turkey

Major contributions to the early careers of excellent researchers

Over the last 10 years, Max Planck Institute for Polymer Research over 30 postdocs, 80 PhD students and 50 diploma/master students. The average PhD thesis in my group takes 3.3 years. Many of my former students hold now prestigious positions in industry and academia. From the former PhD students, about 30% stay in academia, 70% in industry; 80% of the postdocs stay in academia. My group consists of 10 project leaders (equivalent to assistant and associate professors) leading their subgroups. More than 20 of my former group members now hold **professor positions** throughout the world. For my group, I have established a **feedback and evaluation system** for all PhD students and postdocs, I organize **junior scientist trainings** for presentation techniques, paper writing, project and time management. I am actively involved as steering committee member in various **graduate schools** (Max Planck Graduate Center (MPGC), Max Planck School Matter to Life, and Graduate School of the Collaborative Research Center SFB1066 and SFB1551).

The mentoring and coaching of excellent female researches are of special interest, therefore I am the founding spokeswoman of the **Elisabeth Schiemann College** of the Max Planck Society (www.mpg.de/8009591/Elisabeth-Schiemann-Kolleg), which supports outstanding young female scientists after their postdoctoral stage on their way to a professorship. As outreach project, I created and established the **Kunststoff-Bildungspfad** as a unique nationwide learning trail at the MPIP, inspiring thousands of young people each year to engage with polymers, sustainability, and STEM through interactive and inclusive formats (www.kunststoffpfad.de).