

Curriculum Vitae

Univ.-Prof. Dr. Wolfgang Kern

Montanuniversität Leoben,
Chair in Chemistry of Polymeric Materials
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Education

1998 Habilitation (venia legendi) in Organic-Chemical Technology, Graz University of Technology
1992 Ph.D. degree in Chemistry (Dr. techn.) from Graz University of Technology (A)
1989 Master in Chemistry (Mag.rer.nat), University of Graz (A)

Career History

since 2008 Scientific Director (CSO) of the Polymer Competence Center Leoben PCCL (A)
since 2008 Holder of the Chair in Chemistry of Polymeric Materials at Montanuniversitaet Leoben
2007 Appointment as a Full Professor at Montanuniversitaet Leoben (A)
2003 Visiting scientist at The University of Sheffield (UK)
1998 Appointment as an Associate Professor at Graz University of Technology
1991- 1998 University assistant at Graz University of Technology (A), Institute of Chemistry and Technology of Organic Materials

Research Interests and Expertise

- Special and functional polymers
- Polymer photochemistry
- Surface functionalization of polymeric and inorganic materials
- Chemistry at interfaces of inorganic / organic materials

Publications

- Author / co-author of >180 papers in peer-reviewed journals (SCI)
- Inventor / co-inventor of 19 patents (national and international)
- H-factor = 28, > 2770 citations (source: Scopus, January 2023)
- Link to the complete list of publications: <http://www.kunststofftechnik.at/de/6887/>
- <https://orcid.org/0000-0002-7962-9199>

Selected Projects

04/1999 – 04/2002 “Organic thin film lasers”

(project 921-I within SFB “Elektroactive Materials“, funded by FWF)

04/2002 - 04/2006 „Patterning and modification of conjugated organic polymers“

(project 921-II within SFB “Elektroactive Materials“, funded by FWF)

02/2006 - 02/2009 “Design and applic. of tunable surfaces based upon photoreactive molecules”

(project S9702-N08 in the NFN research network „Interface controlled and funct. organic films“, FWF)

01/2009 – 12/2011 “Patterning and Tuning of Surface Properties with Photoreactive Molecules”

(project S9702-N20 in the NFN research network „Interface controlled and funct. organic films“, FWF)

07/2005 - 06 / 2008 „Functionalized Polymer Surfaces“

(strategic project S8 within the Polymer Competence Center Leoben (PCCL)

03/2012 – 10/2015 “New binder resins and processes for the manufacturing of refractory composites”, project funded by FFG (project line Bridge)

01/2014 – 03/2016, “Molecular coatings for dies and tools to be used in polymer processing” (MOBWEK), IGF-project funded by AiF (Germany)

01/2014 – 12/2016 “Advanced resins for electrical engineering applications”, project within the K-Project on Functional Polymer Composites” (PolyComp), funded by FFG

04/2017 – 09/2019 “Corrosion and Abrasion Resistance of Anti-Adhesives Hybrid Coatings for Polymer Processing” (CARACOAT), CORNET-Project funded by FFG (Austria) and AiF (Germany)

Selected Teaching and Education Activities

- Supervision of 23 PhD Theses (completed) at Montanuniversitaet Leoben since 2007 (plus 5 running PhD theses)
- Bachelor courses on Organic and Polymer Chemistry at Montanuniversität Leoben
- Master and PhD courses on Polymer Photochemistry and Polymers in Optics and Electronics at Montanuniversitaet Leoben

Academic Positions and -Memberships

- Holder of the Chair in Chemistry of Polymeric Materials at Montanuniversitaet Leoben (since 2008)
- Member of the Academic Senate of the Montanuniversität Leoben (2009 - 2022)

Other Activities

- Reviewer for several scientific journals, such as Journal of Applied Polymer Science, Material Chemistry and Physics, Polymers, Membranes, Progress in Organic Coatings, and other journals
- Member of the jury for the Anton Paar Research Award (<https://www.anton-paar.com/at-de/research-award>)
- Active participation in programs for increasing the attractiveness of technical professions and engineering studies in Austria, addressing esp. highschool students (e.g. the TakeTech initiative supported by the Styrian SFG, and the Forschung macht Schule and Generation Innovation initiatives supported by the Austrian Research Promotion Agency (FFG) and Austrian Federal Ministry BMVIT
- Launch of an Undergraduate Education Program in Polymer Science and Engineering between the Sino-German College of Technology of ECUST (East China Univ. of Technology, Shanghai; Prof. Wu Wei) and Montanuniversitaet Leoben, signed in 2017 and starting with exchange students in 2019.

List of the 10 most important SCIENTIFIC ACHIEVEMENTS

- 1) 2007 and 2009: distinction as inventor at Graz Univ. of Technology
- 2) 2009: Science to Business Award from the Austrian Ministry of Economics (on behalf of PCCL)
- 3) 2012 fast Forward Award from the Styrian Business Promotion Agency SFG (on behalf of PCCL)
- 4) 2013: Golden Badge of Honour from the Austrian Society of Plastics Processors (VÖK)
- 5) 2016: European innovation award EARTO 2016 (on behalf of PCCL)

- 6) 2019: H.F. Mark Medal from the Austrian Research Institute for Chemistry & Technology, ofi (awarded in Vienna, October 2019)
- 7) 2019: Award "Austrian of the Year" in the category Research (awarded in Vienna, October 2019)
- 8) Reviewer for several scientific journals, such as Macromolecules, Journal of Applied Polymer Science, Material Chemistry and Physics, Polymers, Membranes, Progress in Organic Coatings, and other journals
- 9) >70 lectures at national and international scientific conferences
- 10) Austrian Slovenian Polymer Meeting ASPM 2010 (08.-10.2010): responsible organization of the full conference (in cooperation with PCCL); 200 participants