

Personal Data

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Nationality German
Date of birth: 11.01.1965



Work experience

2001-2003 Degussa AG, Rodenbacher Chaussee 4, 63457 Hanau
Service Unit Process Technology and Engineering
Department New Processes
Chemical Engineer

Education and Training

2009 Appointment for Full Professor (C4) of Chemical Technology at University of Stuttgart
2003 Appointment for Full Professor (C4) of Chemical Technology at Chemnitz University of Technology
2003 Assistant Professor (Privatdozent) of Chemical Technology at University of Erlangen-Nuremberg
2001 Habilitation in Chemical Technology at University of Erlangen-Nuremberg
Title of Thesis: *Direct Synthesis of Phenol and Cresol – From Catalyst towards Process –*
1995 PhD at Department of Chemical Technology at University of Erlangen-Nuremberg (PhD Supervisor: Prof. Dr. G. Emig).
Title of Thesis: *Selectivity Control by Modifying Faujasites*
1991 Graduation as Dipl.-Ing. in Chemical Engineering at University of Erlangen-Nuremberg

Scientific Panels

2012- CEO of the Belgian Non-Profit-Organisation ENMIX A.I.S.B.L. (European Nanoporous Institute of Excellence) www.enmix.org
2012- Elected Member of the Review Board “Chemical Reaction Technology” at the German Research Foundation (DFG)
2009-2019 Chairman of the Executive Board of the ProcessNet Subject Division “Reaction Engineering”
2005- Member of the Board of Trustees of the DECHEMA Research Institute (DFI)
2017- Member of the Scientific Advisory Board at Leibniz Institute for Catalysis (LIKAT) in Rostock

Awards and Prizes

2001	Jochen-Block-Award of the DECHEMA Subject Division Catalysis
1999	Carl-Zerbe-Award of the German Society for Petroleum and Coal Science and Technology (DGMK)
1998	Young-Scientist-Award of the DECHEMA

Research

-) Nanoporous solid materials like zeolites, metal organic frameworks, mesoporous silica and carbon nano materials.
-) Heterogeneous catalysis with focus on electrocatalysis, energy-related catalysis, selective (de)hydrogenation and oxidation reactions
-) Operando techniques in catalysis like solid-state NMR, IR, and XRD.
-) Reaction engineering investigations like selectivity/conversion optimization, space-time yield and faraday and energy efficiency maximization as well as kinetic measurements, basic engineering and scale-up.

h-index: 25, Number of Publications: 110

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