

**Academic education**

- 1985            Habilitation (venia docendi) for Physical Chemistry  
1978 – 1980   Graduate work in Chemistry at the Vienna University of Technology, Title of the thesis: "Acid Sites on Al<sub>2</sub>O<sub>3</sub>/MgO and Al<sub>2</sub>O<sub>3</sub>/SiO<sub>2</sub> Mixed Metal Oxides" (summa cum laude)  
1972 – 1978   Studies of Chemistry at the Vienna University of Technology (summa cum laude)

**Professional experience**

- 2011 - date    Battelle Fellow, Director Institute for Integrated Catalysis, Pacific Northwest National Laboratory, Richland, WA, USA  
1998 - date    Professor, Chemistry Department, Technische Universität München, Germany  
2003 - 2007    Member of the Senate, Technische Universität München  
2000 - 2003    Chairman of the Chemistry Department, Technische Universität München  
1993 - 1998    Professor of Chemical Technology, University of Twente, The Netherlands  
1990 - 1996    Head of the Christian Doppler Laboratory for Heterogeneous Catalysis  
1989 - 1993    Head of the research group "Surface chemistry and Catalysis" at the Institute for Physical Chemistry, T.U. Vienna  
1989 - 1993    Assistant/Associate Professor, TU Wien  
1985 - 1989    Lecturer, TU Wien, Austria  
1982            Research fellow and visiting lecturer, Yale University, Department of Chemical Engineering  
1978 - 1985    University Assistant, Inst. for Phys. Chemistry, TU Wien

**Service in professional organizations**

- 2013 - 2017    President, European Federation of Catalysis Societies  
2012            Chairman, Organizing Committee 15<sup>th</sup> International Catalysis Conference  
2008 - 2014    Vice Chairman, German Catalysis Society  
2007 - date    German delegate, European Federation of Catalysis Societies  
2007 - 2008    Member of DECHEMA Advisory board, Catalysis  
2003 - 2014    Chairman of the Bavarian Section of the German Association of Gas, Coal and Petroleum  
2001 - 2008    Member of DECHEMA Advisory board, Chemical Technology  
2001 - 2015    Board of the German Association of Gas, Coal and Petroleum  
2001 - 2004    President, International Zeolite Association  
1996 - 1998    Vice Chairman Catalysis, Dutch Chemical Society  
1994 - 1999    Member of the board of the Dutch Catalysis Institute (NIOK)  
1991 - 1993    Chairman, working party on Catalysis, Austrian Chemical Society

**Teaching**

- 1998 - date    "Reaction technology" (TU München)  
                  "Industrial Processes I - Energy" (TU München)  
                  "Industrial Processes II - Chemical Synthesis" (TU München)  
                  "Chemically Functional Materials" (TU München)  
1994 - 1998    "Kinetics and Catalysis" (Univ. Twente)  
                  "Industrial Catalysis" (Univ. Twente)

	"Environmental Catalysis" (Univ. Twente)
1989 - 1993	"Physical Chemistry" (TU Wien)
	"Thermodynamics of phases" (TU Wien)
1986 – 1994	"Heterogeneous Catalysis II, Application in Industrial Processes and Environmental Protection" (TU Wien)
1985 - 1994	"Heterogeneous Catalysis I, Theory and Model Reactions" (TU Wien)
1982	"Industrial Catalytic Reactions and Reaction Mechanisms" (Yale University)

### ***Publications***

over 560 (see separate list)

### ***Patents***

25 (see separate list)

### ***Editorships***

J. Catalysis (Editor in Chief 2010-date; Editor, 2004 – 2009)  
 Encyclopedia of Catalysis, Associate Editor (1998-2010)

### ***Editorial board member***

Chin. Journal of Catalysis (2014 – date)  
 J. Chem. Intermediates (1994 - date)  
 Catalysis Letters (2006 -2013)  
 Topics in Catalysis (2006 - 2013)  
 RSC Catalysis Book Series: Theory and Applications (2007- date)  
 The Chemical Record (2008 - 2014)  
 Microporous Materials (1992 – 1995, 2001 -2004)

### ***Academy memberships***

Austrian Academy of Sciences (2008-date)  
 Academia Europaea (2010-date)  
 European Academy of Sciences (2015-date)  
 National Academy of Engineering (2017–date)

### ***Advisory boards***

2014 - date	CREATE program, Cambridge CARES, Singapore
2013 - date	Leibnitz Institute for Catalysis, Rostock, Germany
2012 - date	Karlsruhe Institute of Technology, Program on Renewable Energies, Karlsruhe, Germany
2009 - 2014	EFRC, Center for Atomic Level Design, LSU, USA

### ***Awards, recognitions***

Hon. Professor, Tianjin University, China (2016)  
 David Trimm and Noel Cant Lectureship, Australian Catalysis Society (2016)  
 ENI Award Hydrocarbons Downstream (2016)  
 R. B. Anderson Award, Canadian Catalysis Society (2015)  
 Francois Gault Lectureship Award (2013)  
 Kozo Tanabe Award for Acid Base Catalysis (2013)  
 Honorary Professor, Dalian Institute of Chem. Physics (2012)  
 Honorary Professor, China University of Petroleum (2011)

Honorary Professor, CAS Qingdao Institute of Bioenergy and  
Bioprocess Technology (2011)  
Robert Burwell Lectureship of the N. Am. Cat. Soc. (2011)  
PE- Prof. R. Kumar CDS Award of the Indian Chem. Eng. Soc. (2005)  
Shell – Center of Excellence Award (1998)  
Christian Doppler Award (1989)  
Research fellow Austrian Board for Trade and Industry (1982)

***Named lectures***

Eastman Lecture, University of California, Berkeley (2016)  
Hougen Lecture, University of Wisconsin, Madison (2015)  
Dodge Lecture, Yale University (2014)  
Xinda Lecture, Peking University (2014)  
Hess Lecture, University of Virginia (2014)  
Distinguished Lecturer, Nanyang Technological University (2013)  
Val Haensel Inaugural Lecture, UOP (2012)  
Zhang Dayu Lectureship, Dalian Institute of Chem. Phys. (2012)  
Imperial College, Distinguished Lecturer, Department of Chemical  
Engineering (2012)  
PNNL-Distinguished Catalyst Researcher Lecture (2008)  
Geus Lecture, Univ. Utrecht (2007)  
UOP Invitational Lecture (2004)