

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 $\text{Al}_2\text{O}_3/\text{MgO}$ and $\text{Al}_2\text{O}_3/\text{SiO}_2$ 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 15th 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)

1989 - 1993	"Environmental Catalysis" (Univ. Twente) "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)