



Curriculum Vitae Prof. Dr. Robert Schlögl

Name: Robert Schlögl

Born: 23 February 1954

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Research interests: heterogeneous catalysis, nanochemically optimized materials for energy storage concepts, chemical energy conversion, nature's energy conversion processes

Robert Schlögl is a chemist and catalysis researcher. His research focuses on heterogeneous catalysis and materials for energy storage concepts. His work has contributed to a new understanding of catalytically active materials. Recently, he has been working on energy systems of the future and the complex challenges of the energy transition.

Academic and professional career

- since 2023 President Alexander von Humboldt-Stiftung
- since 2015 Honorary Professor at the Ruhr University Bochum
- since 2013 Honorary Professor at the University of Duisburg-Essen
- 2011 -2022 Founding Director and Managing Director at the Max Planck Institute for Chemical Energy Conversion (MPI CEC), Mülheim an der Ruhr
- 2005 Fellow of the Royal Society of Chemistry, Cambridge, UK
- 2004 Tetelman Fellow, Yale University, USA
- 2001 Visiting Professor at the Laboratoire des Matériaux, Surfaces et Procédés pour la Catalyse (L.M.S.P.C.), Université Louis Pasteur, Strasbourg, France
- since 1998 Honorary Professor at the Humboldt University of Berlin, Department of Chemistry
- since 1994 Honorary Professor at the Technical University of Berlin, Department of Chemistry
- 1994 - 2023 Director at the Fritz Haber Institute of the Max Planck Society, Berlin (since 4/2023 guest status)

1989 - 1994 C4 Professorship for Inorganic Chemistry at the University of Frankfurt/Main

1989 Habilitation at the Fritz Haber Institute of the Max Planck Society, Berlin

1984 - 1985 Postdoctoral researcher at the Institute of Physics, Basel, Switzerland

1982 - 1983 Postdoc at the Institute of Physical Chemistry, Cambridge University, UK

1982 Doctorate at the Ludwig-Maximilians-University, Munich

1979 Diploma in Chemistry

1973 - 1978 Studies of Chemistry at the Ludwig-Maximilians-University Munich

Functions in scientific societies and committees

2022 Scientific Advisory Board Center for Nanointegration (CENIDE)

Since 2023 President Alexander von Humboldt Foundation

2022 Honorary Fellow Chinese Chemical Society

2021 Member Academia Europaea

Since 2020 Vice-President Leopoldina

2020/21 Vice-Chairman of the National Hydrogen Council (NWR)

Since 2018 Member of the Board of Trustees of the Academies' Project "Energy Systems of the Future" (ESYS), supported by acatech - German Academy of Science and Engineering, the National Academy of Sciences Leopoldina and the Union of the German Academies of Sciences and Humanities

Since 2017 Chair of the Carbon Capture and Usage (CCU) Working Group, Science Advice for Policy by European Academies (SAPEA)

2017 Member of the Supervisory Board at the Helmholtz-Zentrum Berlin für Materialien und Energie

since 2016 Chairman of the Advisory Board of the Copernicus Projects of the Federal Ministry of Education and Research (BMBF)

since 2015 Member of the High-Tech Forum of the BMBF

2013 - 2017 Chairman of the steering committee of the academy project "Energy Systems of the Future" (ESYS)

2012 - 2017 Head of the Steering Committee of the Scientific Advisory Council of the German Federal Government "Energy Systems for the Future".

since 2010 Chairman of the Max Planck Commission "Future Directions of Science

since 2010 Spokesperson of the thematic network "Energy and Resources", acatech - German Academy of Science and Engineering

- 2010 - 2014 Member of the Scientific Advisory Board of the Leibnitz Institute for Catalysis, Rostock
- since 2009 Member of the Editorial Board of ChemCatChem
- since 2009 Member of the Advisory Board of ChemSusChem
- 2008 - 2012 Member of the Advisory Board on the History of the Max Planck Society
- 2007- 2010 Chairman of the Panel Chemistry and Material Sciences of the European Research Council (ERC)
- 2004 - 2006 Chairman of the Chemical-Physical-Technical Section of the Scientific Council of the Max Planck Society
- since 2003 Member of the Editorial Board of Catalysis Letters
- 2003 - 2009 Member of the Editorial Board of the Journal of Catalysis
- 1999 - 2005 Head of the Scientific Information Committee of the Max Planck Society
- 1999 - 2004 Chairman of the Award Committee of the Berlin-Brandenburg Academy of Sciences and Humanities
- 1999 - 2003 Member of the Editorial Board of Physical Chemistry - Chemical Physics (PCCP)
- 1998 - 2002 Member of the Editorial Board of Applied Catalysis A
- 1996 - 2003 President of the German Catalysis Society (GECATS)
- 1996 - 2002 Head of the Catalysis Section of the Society for Chemical Engineering and Biotechnology (DECHEMA)
- 1995 - 2001 Member of the Scientific Advisory Board of the Hahn Meitner Institute (HMI), Berlin
- Member of the Advisory Board of the German Catalysis Society (GECATS)
- Member of the Advisory Board of the European Federation of Catalysis Societies (EFCATS)
- Member of the Scientific Advisory Board of the Berlin Electron Storage Ring Society for Synchrotron Radiation m.b.H. (BESSY)
- Member of the Advisory Board of the International Association of Catalysis Societies (IACS)

Project coordination, membership in collaborative projects

- since 2019 Involved in the DFG Cluster of Excellence EXC 2008: Unifying Systems in Catalysis "UniSysCat".
- since 2019 Involved in the DFG Cluster of Excellence EXC 2089: e-conversion
- since 2019 Involved in the DFG Cluster of Excellence EXC 2186: The Fuel Science Center - Adaptive Conversion Systems for Renewable Energy and Carbon Sources

- since 2018 DFG project "Transient High-Temperature Oxygen Evolution Reaction", subproject to SPP 2080: "Catalysts and reactors under dynamic operating conditions for energy storage and conversion"
- Since 2018 DFG project "Advanced transmission electron microscopy and in situ X-ray spectroscopy (B07)", subproject to TRR 247 "Heterogeneous oxidation catalysis in the liquid phase - materials and mechanisms in thermal, electro- and photocatalysis"
- 2007 – 2018 Involved in the Cluster of Excellence EXC 314 "Unifying Concepts in Catalysis".
- 2007 - 2010 DFG project "Raman spectroscopy as a diagnostic tool to determine the structure-reactivity correlation of carbon black of different microstructure".
- 2003 - 2008 DFG project "Microscopic structure formation of catalyst surfaces under real conditions", subproject of SPP 1091 "Bridging ideal and real systems in heterogeneous catalysis".
- 2002 - 2008 DFG project "New tailored carbon nanofilaments for catalytic applications".
- 2001 - 2010 DFG project "Oxide nitrides of zirconium as materials and model compounds for the catalytic activation of ammonia".
- 2001 - 2006 DFG project "Nitride oxides and nitride compounds as materials and model compounds for the catalytic activation of nitrogen".
- 2000 - 2008 DFG project "Characterisation and modification of active sites for the heterogeneously catalysed partial oxidation of methanol over copper", subproject of SPP 1091 "Bridging ideal and real systems in heterogeneous catalysis".
- 2000 - 2005 DFG project "From single crystal systems to real catalysts using the example of hydrogenation on silver catalysts", subproject of SPP 1091 "Bridging ideal and real systems in heterogeneous catalysis".
- 1999 - 2011 DFG project "Partial oxidation of small hydrocarbon molecules with microscopic amounts of $VxOy$ catalyst systems", subproject to SFB 546 "Structure, dynamics and reactivity of transition metal oxide aggregates".

Involved in several EU projects, including CANAPE, ELCAT, TECHNOTUBES, GRAFOL

Collaborations with Boreskov Institute of Catalysis, Novosibirsk, Russia; EPFL, Switzerland; Cardiff University, U.K.; University of Messina, Catania, Italy; MIT, Boston, USA; University of Virginia, Charlottesville, USA; University of California, Berkeley, USA a.o.

Participant of the European Network IDECAT "Catalysis for Sustainable Energy Production".

Max Planck Project ENERCHEM "Energy from renewable resources - an interdisciplinary approach by Chemists and Material Scientists to tackle questions of social relevance".

Co-initiator of the DFG Priority Programs on Catalysis Research

Co-initiator of the DFG Cluster of Excellence on Catalysis Research

Awards and memberships conferred

2020	Honorary doctorate from the University of Darmstadt, Germany
2019	Ipatieff Lecture of the Center for Catalysis and Surface Science (CCSS), USA
2019	Eduard Rhein Culture Prize
since 2018	Honorary Professor, Boreskov Institute of Catalysis, Russia
since 2017	Distinguished Affiliated Professor, Technical University of Munich (TUM)
2017	Ruhr Prize for Art and Science of the City of Mülheim a.d. Ruhr
2017	ENI Award Energy Transition
2016	Innovation Award of the State of North Rhine-Westphalia
2015	Alwin Mittasch Prize, Society for Chemical Engineering and Biotechnology (DECHEMA) and German Catalysis Society
2013	Max Planck Communitas Prize
since 2011	Member of the National Academy of Sciences Leopoldina
2010	DECHEMA Medal
since 2005	Fellow of the Royal Society of Chemistry, UK
since 1995	Member of the Berlin-Brandenburg Academy of Sciences and Humanities
1994	Otto Bayer Prize
1989	Schunck Award for Innovative Materials

Publications/Patents

Approx. 1300 publications, approx. 20 patent families