
CURRICULUM VITAE
OF
DR. THOMAS LUNKENBEIN



Fritz-Haber Institut der Max-Planck Gesellschaft
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CURRICULUM VITAE

Dr. Thomas Lunkenbein

PERSONAL

Name: Dr. Thomas Lunkenbein
Date of birth: 28.10.1983
Nationality: German

EDUCATION

Group Leader Since 2018 Fritz-Haber Institut der Max-Planck Gesellschaft
Department of Inorganic Chemistry
(Prof. Dr. Robert Schlögl)
Electron Microscopy
*Currently: Supervision of in total 19 PhD Students,
Postdocs, and Technicians*

Deputy Group Leader 2015-2018 Fritz-Haber Institut der Max-Planck Gesellschaft
Department of Inorganic Chemistry
(Prof. Dr. Robert Schlögl)
Electron Microscopy

Postdoc 2012-2015 Fritz-Haber Institut der Max-Planck Gesellschaft
Department of Inorganic Chemistry
(Prof. Dr. Robert Schlögl):
*„Structure-activity correlations of catalysts using
electron microscopes“*

PhD 2009-2012 Dr. rer. nat.
University of Bayreuth
Department of Inorganic Chemistry I
(Prof. Dr. Josef Brey):
*„Mesostructuring of metal oxides and
polyoxometalates templated by ionogenic diblock
copolymers“*
Degree with distinction

University 2004-2009 Diploma in Chemistry
University of Bayreuth
Department of Inorganic Chemistry I
(Prof. Dr. Josef Brey):
„Mesostructuring of polyoxometalates“
Degree with distinction

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AWARDS

2018	Lee Hsun Young Scientist Lecture of the Chinese Academy of Science
2013	Cultural Award of Bavaria
2013	30 most promising young chemists under 30 elected by <i>American Scientific</i>
2013	Participant of the Lindau Nobel Laureate Meetings
2013	PhD Award of the Emil-Warburg-Foundation
2009-2012	Member of the Graduation School of Bayreuth for Mathematics and Natural Sciences, Materials Chemistry and Catalysis
2009-2012	Member of the International Graduation School of the Elite Network Bavaria: „Structure, Reactivity and Properties of Oxide Materials“
2008	Oskar-Karl-Forster-Fellowship
2006	GDCh-Award

ADMINISTRATION AND ORGANIZATION

2019	<i>Member of the Local Organizing Committee of the German Microscopy Conference (MC2019).</i> Berlin, Germany
2018	<i>4th International Symposium on Chemistry for Energy Conversion and Storage.</i> Berlin, Germany
2016	<i>4th International Symposium on Advanced Electron Microscopy for Catalysis and Energy Storage Materials.</i> Berlin, Germany
2016	<i>1st International School on Chemical Aspects of Electron Microscopy.</i> Berlin, Germany

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LECTURES AT UNIVERSITIES AND SCIENTIFIC INSTITUTIONS

2018	Introduction to Transmission Electron Microscopy (1 SWS, University of Bayreuth)
2016	Introduction to Heterogeneous Catalysis (1 SWS, University of Bayreuth)
2015	Introduction to Common and Inorganic Chemistry – Experimental lecture (2 SWS, TU Berlin)
2014	Applied Functional Materials and Solids (2 SWS, TU Berlin)
2013 - 2018	Lectures at the Heterogeneous Catalysis Lecture Series: Scanning Techniques in Electron Microscopy TEM Image Formation and Simulation Contrast Formation in (S)TEM Proton Transfer Reaction Mass Spectrometry Structural Chemistry of Silicates The Chemical Origin of Life Quasi in-situ TEM

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PUBLIC LECTURES

2018	<i>Als Strümpfe den Champagner küssten.</i> Chemie Live Show, Max-Planck-Tag, Berlin, Germany
2018	<i>Berlin im Schmelztiegel des Chemikers. Ein 781 Jahre andauerndes Experiment.</i> Chemie Live Show, Max-Planck-Tag, Berlin, Germany
2017	<i>Schütteln, Sprühen, Mixen und Staunen: Chemische Experimente für Kinder zum Mitmachen.</i> Experimentalvorlesung für Kinder, Lange Nacht der Wissenschaften, Berlin, Germany
2017	<i>So schnell schießen die Preußen nicht.</i> Experimentalvorlesung, Lange Nacht der Wissenschaften, Berlin, Germany
2016	<i>Kleine Forscher ganz groß – Farbigkeit und andere chemische Köstlichkeiten.</i> Experimentalvorlesung für Kinder, Lange Nacht der Wissenschaften, Berlin, Germany
2016	<i>Flammende Nacht, knallende Nacht.</i> Experimentalvorlesung, Lange Nacht der Wissenschaften, Berlin, Germany
2016	<i>Kleine Forscher ganz groß – Farbigkeit und andere chemische Köstlichkeiten.</i> Experimentalvorlesung für Kinder, Sommerfest des FHIs, Berlin, Germany
2016	<i>Flammende Nacht, knallende Nacht.</i> Experimentalvorlesung, Sommerfest des FHIs, Berlin, Germany
2016	<i>Elektronenmikroskopie.</i> Vorlesung, Lange Nacht der Wissenschaften, Berlin, Germany

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INVITED TALKS

- 2019 *Heterogeneous Catalysts – The Presence of Local Structures and Their Temporal Evolution.*
Lecture, Lee Hsun Lecture Series, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China
- 2019 *Local Structures in Heterogeneous Catalysts – From High Resolution Imaging to Operando TEM.*
Seminar, Dalian Institute of Chemical Physics (DICP), Chinese Academy of Sciences, Dalian, China
- 2019 *Insights Into the Structural Complexity of Heterogeneous Catalysts.*
Colloquium for Physical and Theoretical Chemistry, Department of Chemistry, Technical University of Munich, Munich, Germany
- 2019 *Operando Electron Microscopy.*
Talk, FHI-Workshop on Current Research Topics at the FHI, Potsdam, Germany
- 2019 *Structural Complexity of Solid State Catalysts.*
Inorganic Seminar, Department of Inorganic Chemistry I, University of Bayreuth, Bayreuth, Germany
- 2019 *Local Insights Into the Structural Complexity of Heterogeneous Catalysts.*
GDCh-Colloquium, Technical University of Chemnitz, Chemnitz, Germany
- 2019 *TEM and Operando TEM Investigation of Heterogeneous Catalysts.*
Lecture, Lecture series: Facets of Materials Science, Faculty of Natural Sciences, Technical University of Chemnitz, Chemnitz, Germany
- 2019 *Towards Multiscale Operando Electron Microscopy for the Study of Heterogeneous Catalysts Under Working Conditions.* Talk, Germany-Japan Joint Seminar on Advanced Electron Microscopy and Its Application, Nagoya, Japan

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| 2018 | <i>A Local View on Cu/ZnO/Al₂O₃ Catalysts for Methanol Synthesis.</i>
Talk, The 8 th German-Russian Week of the Young Researcher “Chemical Energy Storage and Conversion”, GRIAT, Kazan, Russia |
| 2018 | <i>The Chemistry of Mineral Water.</i>
Talk, Summer School on Catalysis and Energy: From Synthesis to Application, Gelsenkirchen, Germany |
| 2018 | <i>Real Structure Investigation of Heterogeneous Catalysts.</i>
Department Seminar, Ernst-Ruska-Center, Forschungszentrum Jülich, Jülich, Germany |
| 2017 | <i>Exploring Structural Complexity in Heterogeneous Catalysis.</i>
Inorganic Colloquium, University of Duisburg-Essen, Essen, Germany |
| 2016 | <i>Local Structures in Heterogeneous Catalysis.</i>
Department Seminar, Chemistry Institute of Condensed Matter of Bordeaux, CNRS, Bordeaux, France |
| 2015 | <i>Local Information Powers Heterogeneous Catalysis Research: A TEM Description of Real and Surface Structures.</i>
SFB Colloquium, University of Bayreuth, Bayreuth, Germany |
| 2014 | <i>Beam Sensitive Mixed Metal Oxides in the Electron Microscope - A Chemical Analysis.</i>
Department Seminar, Max-Planck-Institut für Kohleforschung, Mülheim a. d. Ruhr, Germany |
| 2014 | <i>Chemical Electron Microscopy: Distortions in the Oxygen Sub-Lattice of Complex Oxides.</i>
Talk, Young Researchers Network, Mülheim a. d. Ruhr, Germany |
| 2013 | <i>Transmission Electron Microscopy in Catalysis.</i>
Selected talk by Nobel Laureate Prof. Dan Shachtman, Noble Laureate Conference, Lindau, Germany |
| 2013 | <i>Towards an Atom Resolved Understanding of Heterogeneous Catalysts by Transmission Electron Microscopy.</i>
Department Seminar, Institute of Soft Matter and Functional Materials, Helmholtz Center for Materials and Energy, Berlin, Germany |
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