

CM
Computational Materials Design
Prof. J. Neugebauer

Computational Phase Studies Dr. T. Hickel	Complex Concentrated Alloys Dr. F. Körmann (guest group leader)
Computer Center Dr. C. Freysoldt	
Defect Chemistry and Spectroscopy Dr. C. Freysoldt	
Electrochemistry and Corrosion Dr. M. Todorova	
Materials Informatics Dr. J. Janßen	
Microstructure and Mechanics Prof. E. Bitzek	

GO
Interface Chemistry and Surface Engineering
N.N./Provisional Head: Prof. J. Neugebauer

Corrosion Dr. M. Rohwerder	RUB-MPI Junior Research Group Spectroscopy at Electrochemical Interfaces Dr. M. Rohwerder (provisional head)
	Surface Science for Future Materials Dr. P. Jovičević-Klug

MA
Circular Metallurgy and Alloy Design
Prof. D. Raabe

Atom Probe Tomography Prof. B. Gault Dr. A. Saksena	SusMax: Sustainable Materials for a Circular Economy Dr. T. Beyazay Funded by ERC Advanced Grant Sustainable Synthesis of Materials U. Manzoor
Mechanism-based Alloy Design Dr. D. Ponge	
Microscopy and Diffraction Dr. S. Zaefferer	
Microstructure and Interfaces of Battery Materials Dr. Y. Joshi	
Theory and Simulation Dr. F. Roters	

SN
Structure and Nano-/Micromechanics of Materials
Prof. G. Dehm

Chemo-Mechanics of Battery Materials Dr. Y. Zhang	ERC Starting Grant Additive Micromanufacturing Dr. R. Ramachandramoorthy
Environmental & Analytical Electron Microscopy Dr. L. M. Vogl	Funded by ERC Advanced Grant Atomistic Modelling of Material Interfaces Dr. T. Brink
Hydrogen Mechanics and Interfaces Dr. M. J. Duarte Correa	
Intermetallic Materials Dr. F. Stein	
Thermo-Chemomechanics and Interfaces Dr. A. Kanjilal	
Nanomechanical Instrumentation and Extreme Nanomechanics Dr. R. Ramachandramoorthy (guest group leader)	
Quantitative Transmission Electron Microscopy Dr. P. Schweizer	

I
Independent research groups, members and schools

- Independent Max Planck Research Group **Nanoanalytics and Interfaces**
Prof. C. Scheu
- Max Planck Fellow Group **Electrochemistry and Nanoscale Materials**
Prof. K. Tschulik
- International Max Planck Research School for Sustainable Metallurgy**
Prof. E. Bitzek
E. Lorenz
- Emeritus Group **Electrochemical Surface Science**
Prof. M. Stratmann
- External Members**
Prof. R. Kirchheim

Interdepartmental Groups

- Funded by EIC **Artificial Intelligence for Materials Science**
Dr. A. Bajpai
- Atomic Scale Dynamics of Sustainable Materials**
Dr. X. Zhou
- Hydrogen at Interfaces**
Dr. A. Saksena
- Interfacial Processes/ Reactions at Atomic Scale**
Dr. T. Schwarz
- Materials Science of Additive Manufacturing**
Dr. R. Ramachandramoorthy & Prof. H. Springer
- Sustainable Magnets and Recycling**
Dr. M. Jovičević-Klug

Partner Groups

- Max Planck Partner Group **Combinatorial Design of Permanent Magnets**
Prof. K. G. Pradeep
- Max Planck Partner Group **Extreme mechanics of 3D nano-architected oxides**
Prof. S.-G. Kang
- Max Planck Partner Group **Degradation of High Temperature Materials**
Prof. S. K. Makineni
- Max Planck Partner Group **High Performance Materials for Harsh Energy Applications**
Dr. J. Zavasnik
- Max Planck Partner Group **Properties of Decorated Grain Boundaries**
Dr. H. Bishara
- Max Planck Partner Group **Stress and Defects Driven Phase Transformations**
Prof. R. S. Meka
- Jiao Tong University **Computational Energy Storage Materials**
Dr. C. Liu
- Suzhou Laboratory **High-Entropy Materials**
Dr. L. Han
- University Duisburg-Essen **Sustainable Materials Science and Technology**
Prof. H. Springer

MPG Groups

- MPG Group **De Magnete Designing Magnetism**
Prof. O. Gutfleisch
- MPG Group **High Temperature Materials**
Prof. G. Eggeler
- MPG Group **Thin Film Materials Design**
Prof. J. Schneider

Scientific Service Groups

- Hydrogen Laboratory**
• Electrochemical and gas-phase hydrogen charging
• Thermal desorption spectroscopy
Dr. M. Rohwerder
- Materials Testing**
• Mechanical & physical properties
• Varying environments
Dr. D. Ponge
- Metallography**
• Light microscopy
• Metallographic sample preparation
• Scanning Electron Microscopy
Dr. S. Zaefferer
- Synthesis and Processing**
• Alloy production
• Annealing and welding
• Thermomechanical treatments
Dr. D. Ponge
- X-Ray Diffraction**
• XRD phase analysis
• Advanced XRD techniques
• Pole figure and residual stress measurements
B. Breitbach

Administration & Non-Scientific Service Groups – Dr. K. de Weldige

- Accounting and Third Party Funds**
B. Kloß
- Human Resources**
M. Schmitz
- Procurement**
A. Moll
- Instrument Development**
I. Gonzalez
- IT Services**
M. Mietzner
- Library**
P. Siegmund
- Research Coordination Office**
Dr. K. Hübel
- Events & Internal Communication**
T. Krause
- Int. Max Planck Research School**
E. Lorenz
- International Office**
H. Titchener
- Public Relations**
Y. Ahmed Salem
- Research Funding**
Dr. K. Hübel
- Technical Services incl. Mechanical Workshop**
M. Winkler

Boards & Representatives

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K. Angenendt