



CM

Computational Materials Design

Prof. J. Neugebauer

Computational Phase Studies

Dr. T. Hickel

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

Complex Concentrated Alloys

Dr. F. Körmann
(guest group leader)

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

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

SusMax:
Sustainable Materials for a Circular Economy

Dr. T. Beyazay

Funded by ERC Advanced Grant
Sustainable Synthesis of Materials

U. Manzoor

SN

Structure and Nano-/Micromechanics of Materials

Prof. G. Dehm

Chemo-Mechanics of Battery Materials

Dr. Y. Zhang

Environmental & Analytical Electron Microscopy

Dr. L. M. Vogl

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

ERC Starting Grant
Additive Micromanufacturing

Dr. R. Ramachandramoorthy

Funded by
ERC Advanced Grant
Atomistic Modelling of Material Interfaces

Dr. T. Brink

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 Atomics 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. Mäkinen

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 Magnet 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

Electronics

I. Gonzalez

IT Services

M. Mietzner

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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

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