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MAX PLANCK INSTITUTE FOR SUSTAINABLE MATERIALS

CM — Computational Materials Design
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- **Computational Phase Studies** — Dr. T. Hickel
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- **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
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- **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
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- **Atom Probe Tomography** — Prof. B. Gault, Dr. A. Saksena
- **Mechanism-based Alloy Design** — Dr. D. Ponge
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- **SusMax: Sustainable Materials for a Circular Economy** — Dr. T. Beyazay
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SN — Structure and Nano-/ Micromechanics of Materials
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- **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** — Prof. 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** — Prof. 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 **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

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