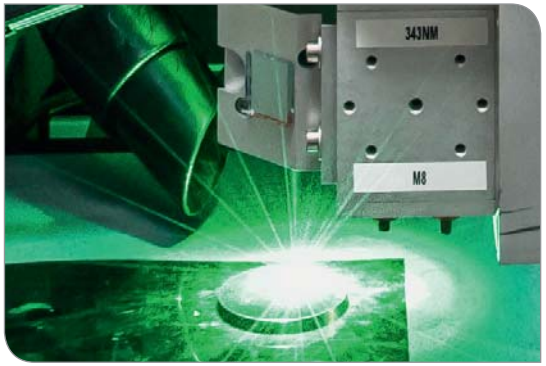
Access

Proposal submissions
Submit your proposals online via www.knmf.kit.edu.

Submission deadlines
- Proposals for no fee access are reviewed by an independent panel following two annual submission deadlines: January 15 and June 30.
- Proposals for proprietary research are handled immediately upon submission.

General conditions
Access is granted according to the KNMF User Guidelines.
- Open research is free of charge and will be evaluated by an international and independent peer review board. The obtained results should be intended for publication in high impact journals.
- Proprietary research is based on full cost recovery and will not be peer reviewed. The obtained results will not be published.

Worldwide access
Scientific expertise and technological capabilities of KNMF are open to industry and academia from all over the world.



D

Images

A Grain boundary character in nanocrystalline palladium
Left: orientation image
Right: distribution of Σ3 and Σ9 boundaries
B Auxetic structures in silicon by using a cryo-RIE process
C Metallic wires and nailhead/mushroom structures
D Ultra-short pulse laser material processing

Contact

KNMF User Office

Karlsruhe Nano Micro Facility (KNMF)
Karlsruhe Institute of Technology
Hermann-von-Helmholtz-Platz 1
76344 Eggenstein-Leopoldshafen, Germany

Phone: +49 721 608-23123
Fax: +49 721 608-26273
E-mail: knmf-useroffice@kit.edu
Web: www.knmf.kit.edu

September 2015

www.knmf.kit.edu

Karlsruhe Institute of Technology

Karlsruhe Nano Micro Facility

Open access to advanced multimaterial micro- and nanotechnologies

A HELMHOLTZ RESEARCH INFRASTRUCTURE

KIT – University of the State of Baden-Wuerttemberg and National Research Center of the Helmholtz Association

www.kit.edu

Welcome to KNMF

The Karlsruhe Nano Micro Facility (KNMF) is a high-tech innovation platform for structuring, functionalising and characterising a multitude of materials at the micro- and nanoscale.

KNMF provides users from industry and academia open and, in case of public work, no cost access to an integrated set of multimaterial state-of-the-art micro and nanotechnologies.

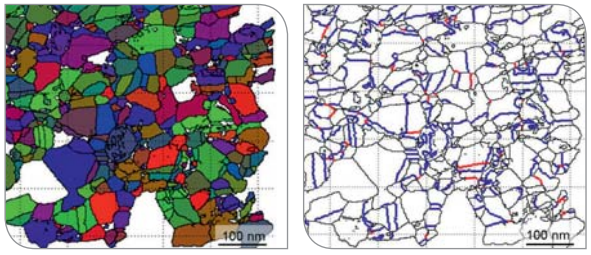
KNMF is operated by the Karlsruhe Institute of Technology as a Helmholtz Research Infrastructure.

Unique technologies and leading expertise

KNMF possesses a unique technology portfolio and leading expertise which can be combined to provide individual solutions to challenging user requests.

An on-going investment programme is enabling an enhancement of our facilities.

Visit our website www.knmf.kit.edu for up to date information and establish your first personal contact with our experts.



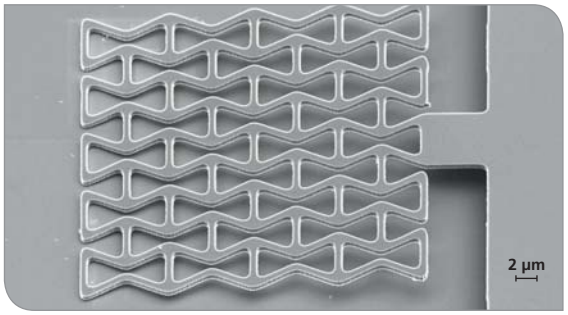
A

KNMF Laboratory for Micro- and Nanostructuring

- Atomic layer deposition
- Deep X-ray lithography
- Dip-pen nanolithography and polymer pen lithography
- Dry etching cluster
- Electron beam lithography
- Focused ion beam
- Hot embossing
- Injection moulding
- Laser lithography systems
- Laser material processing
- Thin film technologies
- Next generation X-ray lithography (in preparation)

KNMF Laboratory for Microscopy and Spectroscopy

- 3D atom probe tomography
- Atomic force microscopy
- Auger electron spectroscopy
- Bulk and trace analysis of nanomaterials
- Helium ion microscope
- Laser ablation ICPMS
- Single crystal X-ray diffraction
- Soft X-ray spectroscopy, microscopy, and spectromicroscopy
- Thin film characterisation methods
- Time-of-flight secondary ion mass spectrometry
- Transmission electron microscopy
- Travelling wave ion-mobility time-of-flight mass spectrometry
- X-ray photoelectron spectroscopy
- Matrix assisted laser desorption/ionisation TOF MS (in preparation)



B

Opportunities

Create values for your individual success

- Open innovation facility to achieve your scientific goals
- Comprehensive set of high-end technologies
- Extensive expert and application know-how
- Tailored process chains
- Individual support and advice on at all stages

Tailor collaborations to satisfy your needs and expectations

- Short-term projects (< 6 months)
- Long-term projects (< 2 years)
- Confidential services
- Rapid prototyping
- Small series production

C