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Workshop Open Access Monitor 2019

07. JUNI 2019 | ANDREAS MEIER

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Grunddaten

- „Next-generation linked research information system“
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- Im Januar 2018 gestartet
- Freie und kommerzielle Version verfügbar
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Was steckt drin?

Publications	101.753.197
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Clinical Trials	461.411
Policy Documents	422.437

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Beispiel

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- > SOURCE TITLE
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PUBLICATIONS 102,943,387	GRANTS 4,891,573	PATENTS 38,420,014	CLINICAL TRIALS 462,954	POLICY DOCUMENTS 422,561
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A new interpretation of the $\sqrt{7}\times\sqrt{7}$ R19.1° structure for P adsorbed on a Ni(111) surface
Elizabeth Barrow, Grant S. Seuser, Hiroko Ariga-Miwa, Donna A. Chen, Jochen Lauterbach, Kiyotaka Asakura
2019, Science and Technology of Advanced Materials - Article

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Twinning behavior of orthorhombic- α' martensite in a Ti-7.5Mo alloy
Xin Ji, Ivan Gutierrez-Urrutia, Satoshi Emura, Tianwei Liu, Toru Hara, Xiaohua Min, Dehai Ping, Koichi Tsuchiya
2019, Science and Technology of Advanced Materials - Article

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Reactive metal-support interaction in the Cu-In2O3 system: intermetallic compound formation and its consequences for CO2-selective methanol steam reforming
Kevin Ploner, Lukas Schlicker, Albert Gili, Aleksander Gurlo, Andrew Doran, Lei Zhang, Marc Armbrüster, Dagmar Obendorf, Joh...
2019, Science and Technology of Advanced Materials - Article

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< ANALYTICAL VIEWS

 FIELDS OF RESEARCH ▾

1103 Clinical Sciences	5,395,480
0601 Biochemistry and Cell Biology	2,978,394
1117 Public Health and Health Services	2,941,698
0306 Physical Chemistry (incl. Structural)	2,793,429
0912 Materials Engineering	2,541,058

 OVERVIEW ▾

RCR Mean **0.76** FCR Mean **1.31**



— Publications (total)

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Publication - Article

Twinning behavior of orthorhombic- α' martensite in a Ti-7.5Mo alloy

Science and Technology of Advanced Materials, 20(1), 401-411, 2019
<https://doi.org/10.1080/14686996.2019.1600201/>

Authors
Xin Ji - National Institute for Materials Science
Ivan Gutierrez-Urrutia - National Institute for Materials Science
Satoshi Emura - National Institute for Materials Science
[5 more](#)

Abstract
Deformation microstructure of orthorhombic- α' martensite in a Ti-7.5Mo (wt.%) alloy was investigated by tracking a local area of microstructure using scanning electron microscopy, electron back-scattered diffraction, and transmission electron microscopy. The as-quenched α' plates contain $\{111\}_{\alpha'}$ -type I transformation twins generated to accommodate transformation strain from bcc- β to orthorhombic- α' martensite. Tensile deformation up to strain level of 5% induces $\{112\}_{\alpha'}$ -type I deformation twins. The activation of $\{112\}_{\alpha'}$ -type I deformation twinning mode is reported for the first time in α' martensite in β -Ti alloys. $\{112\}_{\alpha'}$ -type I twinning mode was analyzed by the crystallographic twinning theory by Bilby and Crocker and the most possible mechanism of atomic displacements (shears and shuffles) controlling the newly reported $\{112\}_{\alpha'}$ -type I twinning were proposed.
[more](#)

Publication references - 50 Sorted by: Date

[Quantitative analysis of \$\{332\}\$ \$\langle 113 \rangle\$ twinning in a Ti-15Mo alloy by in situ scanning electron microscopy](#)
Ivan Gutierrez-Urrutia, Cheng-Lin Li, Xin Ji, Satoshi Emura, Koichi Tsuchiya
2018, Science and Technology of Advanced Materials - Article
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[Plastic deformation behaviour of single-crystalline martensite of Ti-Nb shape memory alloy](#)
Masaki Tahara, Nao Okano, Tomonari Inamura, Hideki Hosoda
2017, Scientific Reports - Article
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[Strain-rate effect on work-hardening behavior in \$\beta\$ -type Ti-10Mo-1Fe alloy with TWIP effect](#)

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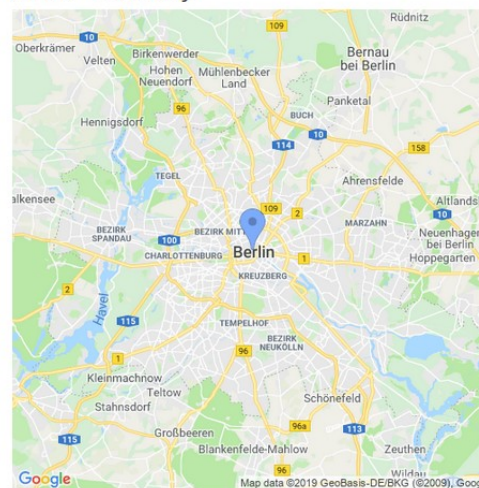
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- Deutsche Elektronen-Synchrotron DESY
- Forschungszentrum Jülich
- GEOMAR Helmholtz Centre for Ocean Research Kiel
- GSI Helmholtz Centre for Heavy Ion Research
- German Aerospace Center
- German Cancer Research Center
- German Center for Neurodegenerative Diseases
- Helmholtz Alberta Initiative
- Helmholtz Alliance Imaging and Curing Environmental Metabolic Diseases
- Helmholtz Alliance for Astroparticle Physics
- Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences
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- Karlsruhe Institute of Technology
- Max Delbrück Center for Molecular Medicine
- Max Planck Institute Luxembourg for International, European and Regulatory Procedural Law
- Max Planck Institute of Plasma Physics

Related Institutes Brussels Office of Helmholtz Association

GeoNames

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City	Berlin		2950159
Admin 1 Region	Berlin	DE.16	2950157
Country/Territory	Germany	DE	2921044

NUTS

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NUTS 2	Berlin	DE30
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