

Markus A Stricker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6670113/publications.pdf>

Version: 2024-02-01

15
papers

752
citations

932766

10
h-index

1058022

14
g-index

15
all docs

15
docs citations

15
times ranked

713
citing authors

#	ARTICLE	IF	CITATIONS
1	Dislocation structure analysis in the strain gradient of torsion loading: a comparison between modelling and experiment. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022, 30, 035007.	0.8	1
2	Efficient implementation of atom-density representations. <i>Journal of Chemical Physics</i> , 2021, 154, 114109.	1.2	32
3	Achieving Ultra-Low Friction with Diamond/Metal Systems in Extreme Environments. <i>Materials</i> , 2021, 14, 3791.	1.3	2
4	Prismatic Slip in Magnesium. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27230-27240.	1.5	9
5	Machine learning for metallurgy II. A neural-network potential for magnesium. <i>Physical Review Materials</i> , 2020, 4, .	0.9	32
6	Dislocation multiplication by cross-slip and glissile reaction in a dislocation based continuum formulation of crystal plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 132, 103695.	2.3	43
7	Comparison of K-doped and pure cold-rolled tungsten sheets: As-rolled condition and recrystallization behaviour after isochronal annealing at different temperatures. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 85, 105047.	1.7	30
8	A mechanism-based homogenization of a dislocation source model for bending. <i>Acta Materialia</i> , 2019, 164, 663-672.	3.8	5
9	DAMASK – The Düsseldorf Advanced Material Simulation Kit for modeling multi-physics crystal plasticity, thermal, and damage phenomena from the single crystal up to the component scale. <i>Computational Materials Science</i> , 2019, 158, 420-478.	1.4	440
10	Dislocation multiplication in stage II deformation of fcc multi-slip single crystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 119, 319-333.	2.3	34
11	Irreversibility of dislocation motion under cyclic loading due to strain gradients. <i>Scripta Materialia</i> , 2017, 129, 69-73.	2.6	14
12	Non-quadratic defect energy: A comparison of gradient plasticity simulations to discrete dislocation dynamics results. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016, 16, 301-302.	0.2	0
13	On slip transmission and grain boundary yielding. <i>Meccanica</i> , 2016, 51, 271-278.	1.2	14
14	Dislocation multiplication mechanisms – Glissile junctions and their role on the plastic deformation at the microscale. <i>Acta Materialia</i> , 2015, 99, 130-139.	3.8	52
15	Nanoscale sliding friction phenomena at the interface of diamond-like carbon and tungsten. <i>Acta Materialia</i> , 2014, 67, 395-408.	3.8	44