

Markus A Stricker

List of Publications by Year in descending order

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15
papers

752
citations

932766

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h-index

1058022

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docs citations

15
times ranked

713
citing authors

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