

Dan Mordehai

List of Publications by Year in descending order

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34
papers

867
citations

471371

17
h-index

477173

29
g-index

34
all docs

34
docs citations

34
times ranked

875
citing authors

#	ARTICLE	IF	CITATIONS
19	Role of dislocation pile-ups in nucleation-controlled size-dependent strength of Fe nanowires. <i>Acta Materialia</i> , 2017, 136, 190-201.	3.8	22
20	Cross-Split of Dislocations: An Athermal and Rapid Plasticity Mechanism. <i>Scientific Reports</i> , 2016, 6, 25966.	1.6	19
21	Climb via vacancy diffusion of edge dislocations in 2D dislocation microstructures. <i>Philosophical Magazine</i> , 2016, 96, 2779-2799.	0.7	3
22	Towards a universal size-dependent strength of face-centered cubic nanoparticles. <i>Acta Materialia</i> , 2016, 103, 433-441.	3.8	35
23	Signature of dislocations and stacking faults of face-centred cubic nanocrystals in coherent X-ray diffraction patterns: a numerical study. <i>Journal of Applied Crystallography</i> , 2015, 48, 621-644.	1.9	38
24	A Percolative Deformation Process Between Nanograins Promotes Dynamic Shear Localization. <i>Materials Research Letters</i> , 2015, 3, 76-81.	4.1	3
25	Dislocation-nucleation-controlled deformation of Ni ₃ Al nanocubes in molecular dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015, 23, 085004.	0.8	19
26	Depinning-controlled plastic deformation during nanoindentation of BCC iron thin films and nanoparticles. <i>Acta Materialia</i> , 2015, 90, 370-379.	3.8	20
27	Solid–solid interface reconstruction at equilibrated Ni–Al ₂ O ₃ interfaces. <i>Acta Materialia</i> , 2012, 60, 4359-4369.	3.8	58
28	Pseudoelastic Deformation during Nanoscale Adhesive Contact Formation. <i>Physical Review Letters</i> , 2011, 107, 096101.	2.9	28
29	Enhanced annealing of the dislocation network under irradiation. <i>Physical Review B</i> , 2011, 84, .	1.1	17
30	Effects of focused-ion-beam irradiation and prestraining on the mechanical properties of FCC Au microparticles on a sapphire substrate. <i>Journal of Materials Research</i> , 2011, 26, 1653-1661.	1.2	29
31	Size effect in compression of single-crystal gold microparticles. <i>Acta Materialia</i> , 2011, 59, 5202-5215.	3.8	136
32	Nanoindentation size effect in single-crystal nanoparticles and thin films: A comparative experimental and simulation study. <i>Acta Materialia</i> , 2011, 59, 2309-2321.	3.8	92
33	Annealing of dislocation loops in dislocation dynamics simulations. <i>IOP Conference Series: Materials Science and Engineering</i> , 2009, 3, 012001.	0.3	13
34	Introducing dislocation climb by bulk diffusion in discrete dislocation dynamics. <i>Philosophical Magazine</i> , 2008, 88, 899-925.	0.7	128