

Liang Zhang

List of Publications by Citations

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

579
citations

16
h-index

23
g-index

33
ext. papers

720
ext. citations

3.9
avg, IF

4.4
L-index

#	Paper	IF	Citations
32	Atomistic simulation of tensile deformation behavior of Σ tilt grain boundaries in copper bicrystal. <i>Scientific Reports</i> , 2014 , 4, 5919	4.9	49
31	A review on atomistic simulation of grain boundary behaviors in face-centered cubic metals. <i>Computational Materials Science</i> , 2016 , 118, 180-191	3.2	49
30	Deformation mechanisms in nanotwinned copper by molecular dynamics simulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 343-351	5.3	42
29	Brittle versus ductile behaviour of nanotwinned copper: A molecular dynamics study. <i>Acta Materialia</i> , 2015 , 89, 1-13	8.4	38
28	The shear response of copper bicrystals with Σ 1 symmetric and asymmetric tilt grain boundaries by molecular dynamics simulation. <i>Nanoscale</i> , 2015 , 7, 7224-33	7.7	36
27	Stacking fault tetrahedron induced plasticity in copper single crystal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 680, 27-38	5.3	34
26	The formation and destruction of stacking fault tetrahedron in fcc metals: A molecular dynamics study. <i>Scripta Materialia</i> , 2017 , 136, 78-82	5.6	32
25	Dynamic interaction between grain boundary and stacking fault tetrahedron. <i>Scripta Materialia</i> , 2018 , 144, 78-83	5.6	31
24	Grain boundary induced deformation mechanisms in nanocrystalline Al by molecular dynamics simulation: From interatomic potential perspective. <i>Computational Materials Science</i> , 2019 , 156, 421-433 ^{3,2}		25
23	Interaction between nano-voids and migrating grain boundary by molecular dynamics simulation. <i>Acta Materialia</i> , 2019 , 173, 206-224	8.4	24
22	Coupled grain boundary motion in aluminium: the effect of structural multiplicity. <i>Scientific Reports</i> , 2016 , 6, 25427	4.9	24
21	Inverse Hall-Petch relationship of high-entropy alloy by atomistic simulation. <i>Materials Letters</i> , 2020 , 274, 128024	3.3	21
20	Deformation twinning and dislocation processes in nanotwinned copper by molecular dynamics simulations. <i>Computational Materials Science</i> , 2018 , 142, 59-71	3.2	19
19	Molecular dynamics study on the atomic mechanisms of coupling motion of $[0\ 0\ 1]$ symmetric tilt grain boundaries in copper bicrystal. <i>Materials Research Express</i> , 2014 , 1, 015019	1.7	19
18	Molecular dynamics study on the grain boundary dislocation source in nanocrystalline copper under tensile loading. <i>Materials Research Express</i> , 2015 , 2, 035009	1.7	18
17	Strengthening mechanisms and dislocation processes in textured nanotwinned copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 676, 474-486	5.3	16
16	Nonlinear elastic response of single crystal Cu under uniaxial loading by molecular dynamics study. <i>Materials Letters</i> , 2018 , 227, 236-239	3.3	16

15	Shear response of grain boundaries with metastable structures by molecular dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018 , 26, 035008	2	14
14	Brittle versus ductile fracture behaviour in nanotwinned FCC crystals. <i>Materials Letters</i> , 2015 , 152, 65-67	3,3	12
13	Influence of temperature and local structure on the shear-coupled grain boundary migration. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600477	1,3	10
12	A dual deformation mechanism of grain boundary at different stress stages. <i>Materials Letters</i> , 2016 , 167, 278-283	3,3	8
11	Molecular dynamics simulation on generalized stacking fault energies of FCC metals under preloading stress. <i>Chinese Physics B</i> , 2015 , 24, 088106	1,2	7
10	Prediction on Mechanical Properties of Non-Equiatomic High-Entropy Alloy by Atomistic Simulation and Machine Learning. <i>Metals</i> , 2021 , 11, 922	2,3	7
9	Evaluation of Mechanical Properties of $\Sigma(210)/[001]$ Tilt Grain Boundary with Self-Interstitial Atoms by Molecular Dynamics Simulation. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-11	3,2	6
8	Membrane-less Direct Formate Fuel Cell Using an Fe-N-Doped Bamboo Internode as the Binder-Free and Monolithic Air-Breathing Cathode. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27095-27103	9,5	5
7	Molecular dynamics simulation and machine learning of mechanical response in non-equiatomic FeCrNiCoMn high-entropy alloy. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 2043-2054	5,5	5
6	Mechanical response and plastic deformation of coherent twin boundary with perfect and defective structures. <i>Mechanics of Materials</i> , 2020 , 141, 103266	3,3	4
5	Tension/compression asymmetry of grain boundaries with non-planar structure. <i>Materials Research Express</i> , 2016 , 3, 085025	1,7	2
4	Atomistic Simulation of the Interaction Between Point Defects and Twin Boundary. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800228	1,3	2
3	Molecular Dynamics Simulation on Σ Grain Boundaries of Copper Bicrystal under Tensile and Shear Deformation. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1651, 1		2
2	Understanding the Radiation Resistance Mechanisms of Nanocrystalline Metals from Atomistic Simulation. <i>Metals</i> , 2021 , 11, 1875	2,3	1
1	Atomistic Simulation of the Interaction Between Point Defects and Twin Boundary (Phys. Status Solidi B 9/2018). <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1870133	1,3	