

# Liang Zhang

## List of Publications by Year in Descending Order

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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	Understanding the Radiation Resistance Mechanisms of Nanocrystalline Metals from Atomistic Simulation. <i>Metals</i> , <b>2021</b> , 11, 1875	2.3	1
31	Prediction on Mechanical Properties of Non-Equiatomic High-Entropy Alloy by Atomistic Simulation and Machine Learning. <i>Metals</i> , <b>2021</b> , 11, 922	2.3	7
30	Molecular dynamics simulation and machine learning of mechanical response in non-equiatomic FeCrNiCoMn high-entropy alloy. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 13, 2043-2054	5.5	5
29	Inverse Hall-Petch relationship of high-entropy alloy by atomistic simulation. <i>Materials Letters</i> , <b>2020</b> , 274, 128024	3.3	21
28	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 &amp; Interfaces</i> , <b>2020</b> , 12, 27095-27103	9.5	5
27	Mechanical response and plastic deformation of coherent twin boundary with perfect and defective structures. <i>Mechanics of Materials</i> , <b>2020</b> , 141, 103266	3.3	4
26	Interaction between nano-voids and migrating grain boundary by molecular dynamics simulation. <i>Acta Materialia</i> , <b>2019</b> , 173, 206-224	8.4	24
25	Grain boundary induced deformation mechanisms in nanocrystalline Al by molecular dynamics simulation: From interatomic potential perspective. <i>Computational Materials Science</i> , <b>2019</b> , 156, 421-433 <sup>3,2</sup>		25
24	Shear response of grain boundaries with metastable structures by molecular dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2018</b> , 26, 035008	2	14
23	Deformation twinning and dislocation processes in nanotwinned copper by molecular dynamics simulations. <i>Computational Materials Science</i> , <b>2018</b> , 142, 59-71	3.2	19
22	Dynamic interaction between grain boundary and stacking fault tetrahedron. <i>Scripta Materialia</i> , <b>2018</b> , 144, 78-83	5.6	31
21	Atomistic Simulation of the Interaction Between Point Defects and Twin Boundary. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1800228	1.3	2
20	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> , <b>2018</b> , 255, 1870133	1.3	
19	Nonlinear elastic response of single crystal Cu under uniaxial loading by molecular dynamics study. <i>Materials Letters</i> , <b>2018</b> , 227, 236-239	3.3	16
18	The formation and destruction of stacking fault tetrahedron in fcc metals: A molecular dynamics study. <i>Scripta Materialia</i> , <b>2017</b> , 136, 78-82	5.6	32
17	Deformation mechanisms in nanotwinned copper by molecular dynamics simulation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 687, 343-351	5.3	42
16	Influence of temperature and local structure on the shear-coupled grain boundary migration. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600477	1.3	10

15	Stacking fault tetrahedron induced plasticity in copper single crystal. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 680, 27-38	5.3	34
14	Evaluation of Mechanical Properties of $\Sigma(210)/[001]$ Tilt Grain Boundary with Self-Interstitial Atoms by Molecular Dynamics Simulation. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-11	3.2	6
13	Tension/compression asymmetry of grain boundaries with non-planar structure. <i>Materials Research Express</i> , <b>2016</b> , 3, 085025	1.7	2
12	Coupled grain boundary motion in aluminium: the effect of structural multiplicity. <i>Scientific Reports</i> , <b>2016</b> , 6, 25427	4.9	24
11	A review on atomistic simulation of grain boundary behaviors in face-centered cubic metals. <i>Computational Materials Science</i> , <b>2016</b> , 118, 180-191	3.2	49
10	A dual deformation mechanism of grain boundary at different stress stages. <i>Materials Letters</i> , <b>2016</b> , 167, 278-283	3.3	8
9	Strengthening mechanisms and dislocation processes in textured nanotwinned copper. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 676, 474-486	5.3	16
8	Brittle versus ductile fracture behaviour in nanotwinned FCC crystals. <i>Materials Letters</i> , <b>2015</b> , 152, 65-67	3.3	12
7	Molecular dynamics study on the grain boundary dislocation source in nanocrystalline copper under tensile loading. <i>Materials Research Express</i> , <b>2015</b> , 2, 035009	1.7	18
6	The shear response of copper bicrystals with $\Sigma 1$ symmetric and asymmetric tilt grain boundaries by molecular dynamics simulation. <i>Nanoscale</i> , <b>2015</b> , 7, 7224-33	7.7	36
5	Molecular dynamics simulation on generalized stacking fault energies of FCC metals under preloading stress. <i>Chinese Physics B</i> , <b>2015</b> , 24, 088106	1.2	7
4	Brittle versus ductile behaviour of nanotwinned copper: A molecular dynamics study. <i>Acta Materialia</i> , <b>2015</b> , 89, 1-13	8.4	38
3	Atomistic simulation of tensile deformation behavior of $\Sigma$ tilt grain boundaries in copper bicrystal. <i>Scientific Reports</i> , <b>2014</b> , 4, 5919	4.9	49
2	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> , <b>2014</b> , 1, 015019	1.7	19
1	Molecular Dynamics Simulation on $\Sigma$ Grain Boundaries of Copper Bicrystal under Tensile and Shear Deformation. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1651, 1		2