Yinbo Zhao

List of Publications by Year in Descending Order

39 papers	642 citations	17 h-index	24 g-index
39 ext. papers	746 ext. citations	4.7 avg, IF	3.92 L-index

#	Paper	IF	Citations
39	Formation and Anisotropic Mechanical Behavior of Stacking Fault Tetrahedron in Ni and CoCrFeNiMn High-Entropy Alloy. *Frontiers in Materials*, **2022**, 8,	4	4
38	Delay of inverse Hall-Petch relationship of nanocrystalline Cu by modifying grain boundaries with coherent twins. *Physical Review B*, **2022**, 105,	3.3	1
37	Twin boundary migration and reactions with stacking fault tetrahedron in Cu and CoCrCuFeNi high-entropy alloy. *Journal of Materials Research and Technology*, **2022**, 17, 282-292	5.5	2
36	Deformation characteristics of nanolayered dual-phase CrCoNi medium-entropy alloy nanowires. *Materials Today Communications*, **2022**, 31, 103273	2.5	
35	Uncovering the Mechanism of Size Effect on the Thermomechanical Properties of Highly Cross-Linked Epoxy Resins.. *Journal of Physical Chemistry B*, **2022**,	3.4	3
34	Numerical investigation of microstructure and failure of lithiated silicon under biaxial tension. *Computational Materials Science*, **2021**, 200, 110764	3.2	
33	Superior mechanical and thermal properties than diamond: Diamond/lonsdaleite biphasic structure. *Journal of Materials Science and Technology*, **2020**, 48, 114-122	9.1	4
32	Unveiling the Working Mechanism of Graphene Bubble Film/Silicon Composite Anodes in Li-Ion Batteries: From Experiment to Modeling. *ACS Applied Energy Materials*, **2020**, 3, 521-531	6.1	8
31	Comment on "Enhanced Strength Through Nanotwinning in the Thermoelectric Semiconductor InSb". *Physical Review Letters*, **2019**, 123, 119601	7.4	1
30	Graphene coating makes copper more resistant to plastic deformation. *Composites Communications* , **2019**, 12, 106-111	6.7	11
29	Toughening and maintaining strength of diamond with substitutional doping boron and nitrogen. *Journal of Alloys and Compounds*, **2019**, 805, 1090-1095	5.7	4
28	Dual phase nano-particulate AlN composite □A kind of ceramics with high strength and ductility. *Ceramics International*, **2019**, 45, 19845-19855	5.1	3
27	Super Ductility of Nanoglass Aluminium Nitride. *Nanomaterials*, **2019**, 9,	5.4	2
26	Effects of modulation periods on mechanical properties of V/VN nano-multilayers. *Ceramics International*, **2019**, 45, 10295-10303	5.1	8
25	Grain size dependence of tensile properties in nanocrystalline diamond. *Computational Materials Science*, **2019**, 157, 67-74	3.2	12
24	Notch effects on deformation of crystalline and amorphous AlN □A nanoscale study. *Ceramics International*, **2019**, 45, 907-917	5.1	5
23	Investigation of impurity induced twinning in MgO from first principles calculations. *Computational Materials Science*, **2018**, 150, 390-396	3.2	3

22	Molecular dynamics study of strengthening mechanism of nanolaminated graphene/Cu composites under compression. *Scientific Reports*, **2018**, 8, 3089	4.9	77
21	Investigation of mechanical behaviour of amorphous aluminium nitride. *Materialia*, **2018**, 2, 148-156	3.2	20
20	Strengthening mechanisms of graphene coated copper under nanoindentation. *Computational Materials Science*, **2018**, 144, 42-49	3.2	25
19	Flow strength limit of nanocrystalline tantalum predicted with molecular dynamics simulations. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2018**, 738, 1-9	5.3	6
18	Molecular dynamics simulation of AlN thin films under nanoindentation. *Ceramics International*, **2017**, 43, 4068-4075	5.1	36
17	Atomic structures and electronic properties of interfaces between aluminum and carbides/nitrides: A first-principles study. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 89, 15-20	3	17
16	Strain rate dependence of tension and compression behavior in nano-polycrystalline vanadium nitride. *Ceramics International*, **2017**, 43, 11635-11641	5.1	22
15	Molecular dynamics simulations for responses of nanotwinned diamond films under nanoindentation. *Ceramics International*, **2017**, 43, 16888-16894	5.1	30
14	Effects of twin boundaries in vanadium nitride films subjected to tensile/compressive deformations. *Applied Surface Science*, **2017**, 426, 262-270	6.7	18
13	Molecular dynamics simulation of nano-indentation on Ti-V multilayered thin films. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 87, 213-219	3	14
12	Nanoindentation of ultra-hard cBN films: A molecular dynamics study. *Applied Surface Science*, **2017** , 392, 215-224	6.7	25
11	Investigation of Interaction between Dislocation Loop and Coherent Twin Boundary in BCC Ta Film during Nanoindentation. *Nanomaterials*, **2017**, 7,	5.4	4
10	Molecular dynamics simulation of deformation twin in rocksalt vanadium nitride. *Journal of Alloys and Compounds*, **2016**, 675, 128-133	5.7	35
9	Molecular dynamics simulation of effects of twin interfaces on Cu/Ni multilayers. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 658, 1-7	5.3	48
8	MD simulation of effect of crystal orientations and substrate temperature on growth of Cu/Ni bilayer films. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	21
7	Molecular dynamics simulation of nano-indentation of (111) cubic boron nitride with optimized Tersoff potential. *Applied Surface Science*, **2016**, 382, 309-315	6.7	26
6	Molecular dynamics simulation of TiN (001) thin films under indentation. *Ceramics International*, **2015**, 41, 14078-14086	5.1	42
5	Molecular dynamics simulation of the slip systems in VN. *RSC Advances*, **2015**, 5, 77831-77838	3.7	28

4	MD simulation of growth of Pd on Cu (1 1 1) and Cu on Pd (1 1 1) substrates. *Applied Surface Science* , **2015**, 356, 651-658	6.7	19
3	MD simulation of nanoindentation on (001) and (111) surfaces of Ag□Ni multilayers. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 74, 481-488	3	31
2	First-principles calculation and molecular dynamics simulation of fracture behavior of VN layers under uniaxial tension. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 69, 224-231	3	22
1	Molecular Dynamics Studies on Size Effects in Laminated Polycrystalline Graphene/Copper Composites: Implications for Mechanical Behavior. *ACS Applied Nano Materials*,	5.6	5