

Yinbo Zhao

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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	Molecular dynamics study of strengthening mechanism of nanolaminated graphene/Cu composites under compression. <i>Scientific Reports</i> , 2018 , 8, 3089	4.9	77
38	Molecular dynamics simulation of effects of twin interfaces on Cu/Ni multilayers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 658, 1-7	5.3	48
37	Molecular dynamics simulation of TiN (001) thin films under indentation. <i>Ceramics International</i> , 2015 , 41, 14078-14086	5.1	42
36	Molecular dynamics simulation of AlN thin films under nanoindentation. <i>Ceramics International</i> , 2017 , 43, 4068-4075	5.1	36
35	Molecular dynamics simulation of deformation twin in rocksalt vanadium nitride. <i>Journal of Alloys and Compounds</i> , 2016 , 675, 128-133	5.7	35
34	MD simulation of nanoindentation on (001) and (111) surfaces of Ag/Ni multilayers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 74, 481-488	3	31
33	Molecular dynamics simulations for responses of nanotwinned diamond films under nanoindentation. <i>Ceramics International</i> , 2017 , 43, 16888-16894	5.1	30
32	Molecular dynamics simulation of the slip systems in VN. <i>RSC Advances</i> , 2015 , 5, 77831-77838	3.7	28
31	Molecular dynamics simulation of nano-indentation of (111) cubic boron nitride with optimized Tersoff potential. <i>Applied Surface Science</i> , 2016 , 382, 309-315	6.7	26
30	Nanoindentation of ultra-hard cBN films: A molecular dynamics study. <i>Applied Surface Science</i> , 2017 , 392, 215-224	6.7	25
29	Strengthening mechanisms of graphene coated copper under nanoindentation. <i>Computational Materials Science</i> , 2018 , 144, 42-49	3.2	25
28	Strain rate dependence of tension and compression behavior in nano-polycrystalline vanadium nitride. <i>Ceramics International</i> , 2017 , 43, 11635-11641	5.1	22
27	First-principles calculation and molecular dynamics simulation of fracture behavior of VN layers under uniaxial tension. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 69, 224-231	3	22
26	MD simulation of effect of crystal orientations and substrate temperature on growth of Cu/Ni bilayer films. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	21
25	Investigation of mechanical behaviour of amorphous aluminium nitride. <i>Materialia</i> , 2018 , 2, 148-156	3.2	20
24	MD simulation of growth of Pd on Cu (1 1 1) and Cu on Pd (1 1 1) substrates. <i>Applied Surface Science</i> , 2015 , 356, 651-658	6.7	19
23	Effects of twin boundaries in vanadium nitride films subjected to tensile/compressive deformations. <i>Applied Surface Science</i> , 2017 , 426, 262-270	6.7	18

22	Atomic structures and electronic properties of interfaces between aluminum and carbides/nitrides: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 89, 15-20	3	17
21	Molecular dynamics simulation of nano-indentation on Ti-V multilayered thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 87, 213-219	3	14
20	Grain size dependence of tensile properties in nanocrystalline diamond. <i>Computational Materials Science</i> , 2019 , 157, 67-74	3.2	12
19	Graphene coating makes copper more resistant to plastic deformation. <i>Composites Communications</i> , 2019 , 12, 106-111	6.7	11
18	Unveiling the Working Mechanism of Graphene Bubble Film/Silicon Composite Anodes in Li-Ion Batteries: From Experiment to Modeling. <i>ACS Applied Energy Materials</i> , 2020 , 3, 521-531	6.1	8
17	Effects of modulation periods on mechanical properties of V/VN nano-multilayers. <i>Ceramics International</i> , 2019 , 45, 10295-10303	5.1	8
16	Flow strength limit of nanocrystalline tantalum predicted with molecular dynamics simulations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 738, 1-9	5.3	6
15	Molecular Dynamics Studies on Size Effects in Laminated Polycrystalline Graphene/Copper Composites: Implications for Mechanical Behavior. <i>ACS Applied Nano Materials</i> ,	5.6	5
14	Notch effects on deformation of crystalline and amorphous AlN \square nanoscale study. <i>Ceramics International</i> , 2019 , 45, 907-917	5.1	5
13	Superior mechanical and thermal properties than diamond: Diamond/lonsdaleite biphasic structure. <i>Journal of Materials Science and Technology</i> , 2020 , 48, 114-122	9.1	4
12	Toughening and maintaining strength of diamond with substitutional doping boron and nitrogen. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 1090-1095	5.7	4
11	Investigation of Interaction between Dislocation Loop and Coherent Twin Boundary in BCC Ta Film during Nanoindentation. <i>Nanomaterials</i> , 2017 , 7,	5.4	4
10	Formation and Anisotropic Mechanical Behavior of Stacking Fault Tetrahedron in Ni and CoCrFeNiMn High-Entropy Alloy. <i>Frontiers in Materials</i> , 2022 , 8,	4	4
9	Investigation of impurity induced twinning in MgO from first principles calculations. <i>Computational Materials Science</i> , 2018 , 150, 390-396	3.2	3
8	Dual phase nano-particulate AlN composite \square kind of ceramics with high strength and ductility. <i>Ceramics International</i> , 2019 , 45, 19845-19855	5.1	3
7	Uncovering the Mechanism of Size Effect on the Thermomechanical Properties of Highly Cross-Linked Epoxy Resins.. <i>Journal of Physical Chemistry B</i> , 2022 ,	3.4	3
6	Super Ductility of Nanoglass Aluminium Nitride. <i>Nanomaterials</i> , 2019 , 9,	5.4	2
5	Twin boundary migration and reactions with stacking fault tetrahedron in Cu and CoCrCuFeNi high-entropy alloy. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 282-292	5.5	2

4	Comment on "Enhanced Strength Through Nanotwinning in the Thermoelectric Semiconductor InSb". <i>Physical Review Letters</i> , 2019 , 123, 119601	7.4	1
3	Delay of inverse Hall-Petch relationship of nanocrystalline Cu by modifying grain boundaries with coherent twins. <i>Physical Review B</i> , 2022 , 105,	3.3	1
2	Deformation characteristics of nanolayered dual-phase CrCoNi medium-entropy alloy nanowires. <i>Materials Today Communications</i> , 2022 , 31, 103273	2.5	
1	Numerical investigation of microstructure and failure of lithiated silicon under biaxial tension. <i>Computational Materials Science</i> , 2021 , 200, 110764	3.2	