

Liang Wang

List of Publications by Year in descending order

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papers

467
citations

687220

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31
docs citations

31
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Shock-induced plasticity and phase transformation in single crystal magnesium: an interatomic potential and non-equilibrium molecular dynamics simulations. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 115401.	0.7	8
2	Study on the relationship between surface and dislocation of nanoporous copper under cyclic shear loading. <i>AIP Advances</i> , 2022, 12, .	0.6	1
3	Role of local chemical fluctuations in the melting of medium entropy alloy CoCrNi. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	13
4	Molecular dynamics simulation of cylindrically converging shock response in single crystal Cu. <i>Computational Materials Science</i> , 2020, 183, 109845.	1.4	6
5	Acoustic and double elastic shock waves in single-crystal graphene. <i>Journal of Applied Physics</i> , 2020, 127, 055101.	1.1	7
6	Precipitate/vanadium interface and its strengthening on the vanadium alloys: A first-principles study. <i>Journal of Nuclear Materials</i> , 2019, 527, 151821.	1.3	13
7	Orientation and grain-boundary dependence of shock-induced plasticity and transformation in nanocrystalline Ti. <i>Physical Review B</i> , 2019, 99, .	1.1	16
8	Intrinsic strain-induced segregation in multiply twinned Cuâ€“Pt icosahedra. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4802-4809.	1.3	9
9	Capture Deformation Twinning in Mg during Shock Compression with Ultrafast Synchrotron X-Ray Diffraction. <i>Physical Review Letters</i> , 2019, 123, 255501.	2.9	28
10	Macrodeformation twinning in a textured aluminum alloy via dynamic equal channel angular pressing. <i>Journal of Materials Science</i> , 2019, 54, 4314-4324.	1.7	8
11	Revealing the Reaction Mechanism of Sodium Selenide Confined within a Single-Walled Carbon Nanotube: Implications for Naâ€“Se Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4995-5002.	4.0	27
12	Local identification of chemical ordering: Extension, implementation, and application of the common neighbor analysis for binary systems. <i>Computational Materials Science</i> , 2018, 143, 195-205.	1.4	8
13	Shock wave propagation, plasticity, and void collapse in open-cell nanoporous Ta. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28039-28048.	1.3	19
14	Texture of nanocrystalline solids: atomic scale characterization and applications. <i>Journal of Applied Crystallography</i> , 2018, 51, 124-132.	1.9	7
15	Surface premelting/recrystallization governing the collapse of open-cell nanoporous Cu <i>via</i> thermal annealing. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16184-16192.	1.3	6
16	Deformation of metals under dynamic loading: Characterization via atomic-scale orientation mapping. <i>Computational Materials Science</i> , 2018, 153, 338-347.	1.4	12
17	Tensile and nanoindentation deformation of amorphous/crystalline nanolaminates: Effects of layer thickness and interface type. <i>Computational Materials Science</i> , 2018, 154, 225-233.	1.4	28
18	Loading-path dependent deformation of nanocrystalline Ta under single- and double-shock, and quasi-isentropic compression. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	30

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19	Shock-induced migration of $\sim 110\%$ grain boundaries in Cu. Journal of Applied Physics, 2017, 121, .	1.1	12
20	Second yield via dislocation-induced premelting in copper. Physical Review B, 2016, 93, .	1.1	20
21	Homogeneous crystal nucleation in liquid copper under quasi-isentropic compression. Physical Review B, 2015, 92, .	1.1	16
22	Shock response of open-cell nanoporous Cu foams: Effects of porosity and specific surface area. Journal of Applied Physics, 2015, 118, .	1.1	22
23	Shock-induced deformation of nanocrystalline Al: Characterization with orientation mapping and selected area electron diffraction. Journal of Applied Physics, 2015, 117, .	1.1	33
24	Short- and medium-range orders in $\text{Cu}_{46}\text{Zr}_{54}$ metallic glasses under shock compression. Journal of Applied Physics, 2015, 118, 015901.	1.1	26
25	Shock-induced melting of honeycomb-shaped Cu nanofoams: Effects of porosity. Journal of Applied Physics, 2015, 118, .	1.1	30
26	Grain boundary orientation effects on deformation of Ta bicrystal nanopillars under high strain-rate compression. Journal of Applied Physics, 2014, 115, .	1.1	21
27	Effect of voids on the tensile properties of vanadium nanowires. Nuclear Instruments & Methods in Physics Research B, 2013, 303, 14-17.	0.6	6
28	Computer Simulation of Helium Effects in Plutonium During the Aging Process of Self-Radiation Damage. Communications in Computational Physics, 2012, 11, 1205-1225.	0.7	10
29	Helium nanobubble release from Pd surface: An atomic simulation. Journal of Materials Research, 2011, 26, 416-423.	1.2	13
30	Atomistic simulation of helium bubble nucleation in palladium. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 3185-3188.	0.6	10
31	Synergistically engineering of shell thickness and core ordering to boost the oxygen reduction performance. Physical Chemistry Chemical Physics, 0, , .	1.3	2