Bowen Huang

List of Publications by Year
in descending order

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16	359	1163117 8	940533 16
papers	citations	h-index	g-index

16	16	16	413
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The mechanism of plasticity and phase transition in iron single crystals under cylindrically divergent shock loading. International Journal of Mechanical Sciences, 2022, 217, 107032.	6.7	6
2	Synergistic Effects of Crystal Phase and Strain for N₂ Dissociation on Ru(0001) Surfaces with Multilayered Hexagonal Close-Packed Structures. ACS Omega, 2022, 7, 4492-4500.	3.5	4
3	Molecular dynamics study of fatigue behavior of nickel single-crystal under cyclic shear deformation and hyper-gravity condition. Modelling and Simulation in Materials Science and Engineering, 2022, 30, 055006.	2.0	3
4	Pt-based intermetallic compounds with tunable activity and selectivity toward hydrogen production from formic acid. Applied Surface Science, 2022, 597, 153530.	6.1	7
5	The Microstructural Evolution of Nickel Single Crystal under Cyclic Deformation and Hyper-Gravity Conditions: A Molecular Dynamics Study. Metals, 2022, 12, 1128.	2.3	3
6	Unraveling the mechanisms of aluminum solidification under hyper-gravity condition from molecular dynamics simulations. Journal of Applied Physics, 2022, 132, .	2.5	3
7	Predicted Polymeric and Layered Covalent Networks in Transition Metal Pentazolate M(cyclo-N5)x Phases at Ambient and High Pressure: Up to 20 Nitrogen Atoms per Metal. Chemistry of Materials, 2021, 33, 5298-5307.	6.7	10
8	Preparation of Hydrophilic Conjugated Microporous Polymers for Efficient Visible Light-Driven Nicotinamide Adenine Dinucleotide Regeneration and Photobiocatalytic Formaldehyde Reduction. ACS Catalysis, 2020, 10, 12976-12986.	11.2	50
9	Molecular dynamics simulation of cylindrically converging shock response in single crystal Cu. Computational Materials Science, 2020, 183, 109845.	3.0	6
10	Effect of particle packing and density on shock response in ordered arrays of Ni + Al nanoparticles. Physical Chemistry Chemical Physics, 2019, 21, 7272-7280.	2.8	13
11	Molecular dynamics simulations of shock loading of nearly fully dense granular Niâ€“Al composites. Physical Chemistry Chemical Physics, 2019, 21, 20252-20261.	2.8	13
12	Pressure-Induced Polymerization of CO₂ in Lithiumâ€“Carbon Dioxide Phases. Journal of the American Chemical Society, 2018, 140, 413-422.	13.7	11
13	Bariumâ€“Nitrogen Phases Under Pressure: Emergence of Structural Diversity and Nitrogen-Rich Compounds. Chemistry of Materials, 2018, 30, 7623-7636.	6.7	70
14	First-principles study of Zrâ€“N crystalline phases: phase stability, electronic and mechanical properties. RSC Advances, 2017, 7, 4697-4703.	3.6	45
15	Emergence of Novel Polynitrogen Molecule-like Species, Covalent Chains, and Layers in Magnesiumâ€“Nitrogen Mg_xN_y Phases under High Pressure. Journal of Physical Chemistry C, 2017, 121, 11037-11046.	3.1	76
16	Exploring the Real Ground-State Structures of Molybdenum Dinitride. Journal of Physical Chemistry C, 2016, 120, 11060-11067.	3.1	39