

Bowen Huang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Emergence of Novel Polynitrogen Molecule-like Species, Covalent Chains, and Layers in Magnesium-Nitrogen Mg_xN_y Phases under High Pressure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11037-11046.	3.1	76
2	Barium-Nitrogen Phases Under Pressure: Emergence of Structural Diversity and Nitrogen-Rich Compounds. <i>Chemistry of Materials</i> , 2018, 30, 7623-7636.	6.7	70
3	Preparation of Hydrophilic Conjugated Microporous Polymers for Efficient Visible Light-Driven Nicotinamide Adenine Dinucleotide Regeneration and Photobiocatalytic Formaldehyde Reduction. <i>ACS Catalysis</i> , 2020, 10, 12976-12986.	11.2	50
4	First-principles study of Zr-N crystalline phases: phase stability, electronic and mechanical properties. <i>RSC Advances</i> , 2017, 7, 4697-4703.	3.6	45
5	Exploring the Real Ground-State Structures of Molybdenum Dinitride. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11060-11067.	3.1	39
6	Effect of particle packing and density on shock response in ordered arrays of Ni + Al nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7272-7280.	2.8	13
7	Molecular dynamics simulations of shock loading of nearly fully dense granular Ni-Al composites. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20252-20261.	2.8	13
8	Pressure-Induced Polymerization of CO_2 in Lithium-Carbon Dioxide Phases. <i>Journal of the American Chemical Society</i> , 2018, 140, 413-422.	13.7	11
9	Predicted Polymeric and Layered Covalent Networks in Transition Metal Pentazolate $M(\text{cyclo-N}_5)_x$ Phases at Ambient and High Pressure: Up to 20 Nitrogen Atoms per Metal. <i>Chemistry of Materials</i> , 2021, 33, 5298-5307.	6.7	10
10	Pt-based intermetallic compounds with tunable activity and selectivity toward hydrogen production from formic acid. <i>Applied Surface Science</i> , 2022, 597, 153530.	6.1	7
11	Molecular dynamics simulation of cylindrically converging shock response in single crystal Cu. <i>Computational Materials Science</i> , 2020, 183, 109845.	3.0	6
12	The mechanism of plasticity and phase transition in iron single crystals under cylindrically divergent shock loading. <i>International Journal of Mechanical Sciences</i> , 2022, 217, 107032.	6.7	6
13	Synergistic Effects of Crystal Phase and Strain for N_2 Dissociation on Ru(0001) Surfaces with Multilayered Hexagonal Close-Packed Structures. <i>ACS Omega</i> , 2022, 7, 4492-4500.	3.5	4
14	Molecular dynamics study of fatigue behavior of nickel single-crystal under cyclic shear deformation and hyper-gravity condition. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022, 30, 055006.	2.0	3
15	The Microstructural Evolution of Nickel Single Crystal under Cyclic Deformation and Hyper-Gravity Conditions: A Molecular Dynamics Study. <i>Metals</i> , 2022, 12, 1128.	2.3	3
16	Unraveling the mechanisms of aluminum solidification under hyper-gravity condition from molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2022, 132, .	2.5	3