Yun-Xuan Zhou

List of Publications by Year
in descending order

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18	402	759233 12	839539 18
papers	citations	h-index	g-index

18	18	18	360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lattice stability, mechanical and thermal properties of a new class of multicomponent (Fe, Mo, W)6C Î· carbides with different atomic site configurations. Ceramics International, 2022, 48, 5107-5118.	4.8	8
2	Changes of alloying elements on elasticity and solid solution strengthening of Î±-Ti alloys: a comprehensive high-throughput first-principles calculations. Rare Metals, 2022, 41, 2719-2731.	7.1	13
3	First-principles study on the thermodynamic, electronic and mechanical properties of Mgâ€“Alâ€“Si ternary compounds. Journal of Materials Research and Technology, 2022, 19, 2848-2862.	5.8	7
4	Investigation on elastic properties and electronic structure of dilute Ir-based alloys by first-principles calculations. Journal of Alloys and Compounds, 2021, 850, 156548.	5.5	18
5	Probing the mechanical properties of ordered and disordered Pt-Ir alloys by first-principles calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 405, 127424.	2.1	17
6	Firstâ€principles study of thermophysical properties of polymorphous YTaO₄ ceramics. Journal of the American Ceramic Society, 2021, 104, 6467-6480.	3.8	20
7	Exploring crystal structures, stability and mechanical properties of Fe, Mn-containing intermetallics in Al-Si Alloy by experiments and first-principles calculations. Journal of Alloys and Compounds, 2021, 876, 160022.	5.5	28
8	Thermal properties of Y1â^'xMgxTaO4â^'x/2 ceramics via anion sublattice adjustment. Rare Metals, 2020, 39, 545-554.	7.1	22
9	Sub-1.4eV bandgap inorganic perovskite solar cells with long-term stability. Nature Communications, 2020, 11, 151.	12.8	92
10	The thermoâ€mechanical properties and ferroelastic phase transition of RENbO₄ (REÂ=ÂY, La,) Tj ETQq0 0 0 rgBT /Overlock	3.8	36
11	Effects of the alloying element on the stacking fault energies of dilute Ir-based superalloys: A comprehensive first-principles study. Journal of Materials Research, 2020, 35, 2718-2725.	2.6	7
12	Investigation on the stability, electronic, optical, and mechanical properties of novel calcium carbonate hydrates via firstâ€principles calculations. International Journal of Quantum Chemistry, 2020, 120, e26219.	2.0	8
13	Enhanced Thermoelectric Performance in Lead-Free Inorganic CsSn_{1â€“x}Ge_xI₃ Perovskite Semiconductors. Journal of Physical Chemistry C, 2020, 124, 11749-11753.	3.1	45
14	Rapid screening of alloy elements to improve the elastic properties of dilute Pt-based alloys: High-throughput first-principles calculations and modeling. Journal of Applied Physics, 2020, 128, .	2.5	16
15	Theoretical and experimental investigations of mechanical properties for polymorphous YTaO₄ceramics. Journal of the American Ceramic Society, 2019, 102, 7656-7664.	3.8	30
16	Thermophysical properties of rare earth barium aluminates. Journal of the American Ceramic Society, 2018, 101, 2718-2723.	3.8	12
17	A first-principles calculation of structural, mechanical, thermodynamic and electronic properties of binary Niâ€“Y compounds. RSC Advances, 2018, 8, 41575-41586.	3.6	17
18	Revealing the stability, elastic properties and electronic structures of Pd-V intermetallics via first principle calculations. AIP Advances, 2018, 8, .	1.3	6