Wei Xie

List of Publications by Year
in descending order

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21 papers	1,236 citations	623188 14 h-index	713013 21 g-index
21 all docs	21 docs citations	21 times ranked	1916 citing authors

#	Article	IF	Citations
1	Anti-phase boundary energy of Î² series precipitates in Mg-Y-Nd system. Scripta Materialia, 2021, 193, 127-131.	2.6	119
2	Vacancy-Ordered Double Perovskite Cs₂TeI₆ Thin Films for Optoelectronics. Chemistry of Materials, 2020, 32, 6676-6684.	3.2	41
3	High-throughput Computational Study of Halide Double Perovskite Inorganic Compounds. Chemistry of Materials, 2019, 31, 5392-5401.	3.2	102
4	CALPHAD modeling and ab initio calculations of the Np-U-Zr system. Computational Materials Science, 2018, 143, 505-514.	1.4	6
5	Bistable Amphoteric Native Defect Model of Perovskite Photovoltaics. Journal of Physical Chemistry Letters, 2018, 9, 3878-3885.	2.1	12
6	Combined ab initio and empirical model of the thermal conductivity of uranium, uranium-zirconium, and uranium-molybdenum. Physical Review Materials, 2018, 2, .	0.9	9
7	Rational Design: A High-Throughput Computational Screening and Experimental Validation Methodology for Lead-Free and Emergent Hybrid Perovskites. ACS Energy Letters, 2017, 2, 837-845.	8.8	187
8	Morphology-Independent Stable White-Light Emission from Self-Assembled Two-Dimensional Perovskites Driven by Strong Excitonâ€“Phonon Coupling to the Organic Framework. Chemistry of Materials, 2017, 29, 3947-3953.	3.2	200
9	Computational Study of Halide Perovskite-Derived A₂BX₆ Inorganic Compounds: Chemical Trends in Electronic Structure and Structural Stability. Chemistry of Materials, 2017, 29, 7740-7749.	3.2	215
10	The MAterials Simulation Toolkit (MAST) for atomistic modeling of defects and diffusion. Computational Materials Science, 2017, 126, 90-102.	1.4	33
11	Response to letter â€œElectron correlation and relativity of the 5f electrons in the U Zr alloy systemâ€• Journal of Nuclear Materials, 2016, 476, 110-112.	1.3	3
12	Oxygen Point Defect Chemistry in Ruddlesdenâ€“Popper Oxides (La_{1â€“x}Sr_x)₂MO_{4Â±Î´} (M = Co, Ni, Cu). Journal of Physical Chemistry Letters, 2016, 7, 1939-1944.	2.1	49
13	Reply to â€œComment on â€˜Correlation and relativistic effects in U metal and U-Zr alloy: Validation ofab initioapproachesâ€™â€•â€• Physical Review B, 2016, 93, .	1.1	5
14	Ab initio energetics for modeling phase stability of the Np-U system. Journal of Nuclear Materials, 2016, 479, 260-270.	1.3	2
15	Thermodynamic evaluation of the Npâ€“Zr system using CALPHAD and ab initio methods. Journal of Nuclear Materials, 2014, 452, 569-577.	1.3	9
16	Thermodynamic modeling of the Uâ€“Zr system â€“ A revisit. Journal of Nuclear Materials, 2013, 443, 331-341.	1.3	60
17	Correlation and relativistic effects in U metal and U-Zr alloy: Validation ofab initioapproaches. Physical Review B, 2013, 88, .	1.1	74
18	Ni(NO₃)₂-Assisted Catalytic Synthesis and Photoluminescence Property of Ultralong Single Crystal Sialon Nanobelts. Crystal Growth and Design, 2013, 13, 10-14.	1.4	16

#	Article	IF	Citations
19	Ab initio-aided CALPHAD thermodynamic modeling of the Sn-Pb binary system under current stressing. Scientific Reports, 2013, 3, 2731.	1.6	17
20	Novel Synthesis and Characterization of High Quality Silicon Carbide Coatings on Carbon Fibers. Journal of the American Ceramic Society, 2012, 95, 1878-1882.	1.9	20
21	Molten salt synthesis of silicon carbide nanorods using carbon nanotubes as templates. Journal of Materials Chemistry, 2011, 21, 18325.	6.7	57