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	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
2	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
3	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
4	Anti-phase boundary energy of Î² series precipitates in Mg-Y-Nd system. Scripta Materialia, 2021, 193, 127-131.	2.6	119
5	High-throughput Computational Study of Halide Double Perovskite Inorganic Compounds. Chemistry of Materials, 2019, 31, 5392-5401.	3.2	102
6	Correlation and relativistic effects in U metal and U-Zr alloy: Validation ofab initioapproaches. Physical Review B, 2013, 88, .	1.1	74
7	Thermodynamic modeling of the Uâ€“Zr system â€“ A revisit. Journal of Nuclear Materials, 2013, 443, 331-341.	1.3	60
8	Molten salt synthesis of silicon carbide nanorods using carbon nanotubes as templates. Journal of Materials Chemistry, 2011, 21, 18325.	6.7	57
9	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
10	Vacancy-Ordered Double Perovskite Cs₂TeI₆ Thin Films for Optoelectronics. Chemistry of Materials, 2020, 32, 6676-6684.	3.2	41
11	The MAterials Simulation Toolkit (MAST) for atomistic modeling of defects and diffusion. Computational Materials Science, 2017, 126, 90-102.	1.4	33
12	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
13	Ab initio-aided CALPHAD thermodynamic modeling of the Sn-Pb binary system under current stressing. Scientific Reports, 2013, 3, 2731.	1.6	17
14	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
15	Bistable Amphoteric Native Defect Model of Perovskite Photovoltaics. Journal of Physical Chemistry Letters, 2018, 9, 3878-3885.	2.1	12
16	Thermodynamic evaluation of the Npâ€“Zr system using CALPHAD and ab initio methods. Journal of Nuclear Materials, 2014, 452, 569-577.	1.3	9
17	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
18	CALPHAD modeling and ab initio calculations of the Np-U-Zr system. Computational Materials Science, 2018, 143, 505-514.	1.4	6

#	Article	IF	Citations
19	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
20	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
21	Ab initio energetics for modeling phase stability of the Np-U system. Journal of Nuclear Materials, 2016, 479, 260-270.	1.3	2