

Xin-Gang Zhao

List of Publications by Year in descending order

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times ranked

2999
citing authors

#	ARTICLE	IF	CITATIONS
1	Local positional and spin symmetry breaking as a source of magnetism and insulation in paramagnetic EuTi_3O_7 . <i>Physical Review Materials</i> , 2022, 6, .		8
2	Intrinsic local symmetry breaking in nominally cubic paraelectric BaTi_3O_7 . <i>Physical Review B</i> , 2022, 105, .	3.2	10
3	Band structure engineering through van der Waals heterostructuring superlattices of two-dimensional transition metal dichalcogenides. <i>Information Materials</i> , 2021, 3, 201-211.	17.3	27
4	Discovery of New Phases of Bismuth Oxyselenide Semiconductor Bi_2OSe_2 by Global Structure Search Approach. <i>Advanced Theory and Simulations</i> , 2021, 4, 2000316.	2.8	2
5	Mass enhancement in CaTi_3O_7 and CaZr_3O_7 perovskites from symmetry breaking. <i>Physical Review B</i> , 2021, 103, .	3.2	24
6	Effect of static local distortions vs. dynamic motions on the stability and band gaps of cubic oxide and halide perovskites. <i>Materials Today</i> , 2021, 49, 107-122.	14.2	37
7	Realization of predicted exotic materials: The burden of proof. <i>Materials Today</i> , 2020, 32, 35-45.	14.2	29
8	Understanding electronic peculiarities in tetragonal FeSe as local structural symmetry breaking. <i>Physical Review B</i> , 2020, 102, .	3.2	26
9	Polymorphous nature of cubic halide perovskites. <i>Physical Review B</i> , 2020, 101, .	3.2	104
10	Thermochromic Lead-Free Halide Double Perovskites. <i>Advanced Functional Materials</i> , 2019, 29, 1807375.	14.9	120
11	Computational Design of Mixed-Valence Tin Sulfides as Solar Absorbers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24867-24875.	8.0	11
12	Design of Mixed-Cation Tri-Layered Pb-Free Halide Perovskites for Optoelectronic Applications. <i>Advanced Electronic Materials</i> , 2019, 5, 1900234.	5.1	21
13	Formation and Composition-Dependent Properties of Alloys of Cubic Halide Perovskites. <i>Chemistry of Materials</i> , 2019, 31, 2497-2506.	6.7	48
14	Impact of organic molecule rotation on the optoelectronic properties of hybrid halide perovskites. <i>Physical Review Materials</i> , 2019, 3, .	2.4	20
15	Chlorine-Incorporation-Induced Formation of the Layered Phase for Antimony-Based Lead-Free Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 1019-1027.	13.7	241
16	Perovskite Photovoltaics: Pseudohalide-Induced Recrystallization Engineering for $\text{CH}_3\text{NH}_3\text{PbI}_3$ Film and Its Application in Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells (Adv. Funct. Mater. 2/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870013.	14.9	5
17	Bismuth and antimony-based oxyhalides and chalcogenides as potential optoelectronic materials. <i>Npj Computational Materials</i> , 2018, 4, .	8.7	86
18	Pseudohalide-Induced Recrystallization Engineering for $\text{CH}_3\text{NH}_3\text{PbI}_3$ Film and Its Application in Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1704836.	14.9	112

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19	Intrinsic Defect Properties in Halide Double Perovskites for Optoelectronic Applications. <i>Physical Review Applied</i> , 2018, 10, .	3.8	109
20	Rational design of new phases of tin monosulfide by first-principles structure searches. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	15
21	Design of Lead-Free Inorganic Halide Perovskites for Solar Cells via Cation-Transmutation. <i>Journal of the American Chemical Society</i> , 2017, 139, 2630-2638.	13.7	714
22	Cu ²⁺ /In Halide Perovskite Solar Absorbers. <i>Journal of the American Chemical Society</i> , 2017, 139, 6718-6725.	13.7	316
23	Functionality-Directed Screening of Pb-Free Hybrid Organic-Inorganic Perovskites with Desired Intrinsic Photovoltaic Functionalities. <i>Chemistry of Materials</i> , 2017, 29, 524-538.	6.7	135