

Xin-Gang Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/391209/publications.pdf>

Version: 2024-02-01

23
papers

2,222
citations

471509

17
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

2999
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Lead-Free Inorganic Halide Perovskites for Solar Cells via Cation-Transmutation. Journal of the American Chemical Society, 2017, 139, 2630-2638.	13.7	714
2	Cu ²⁺ In Halide Perovskite Solar Absorbers. Journal of the American Chemical Society, 2017, 139, 6718-6725.	13.7	316
3	Chlorine-Incorporation-Induced Formation of the Layered Phase for Antimony-Based Lead-Free Perovskite Solar Cells. Journal of the American Chemical Society, 2018, 140, 1019-1027.	13.7	241
4	Functionality-Directed Screening of Pb-Free Hybrid Organic-Inorganic Perovskites with Desired Intrinsic Photovoltaic Functionalities. Chemistry of Materials, 2017, 29, 524-538.	6.7	135
5	Thermochromic Lead-Free Halide Double Perovskites. Advanced Functional Materials, 2019, 29, 1807375.	14.9	120
6	Pseudohalide-Induced Recrystallization Engineering for CH ₃ NH ₃ PbI ₃ Film and Its Application in Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1704836.	14.9	112
7	Intrinsic Defect Properties in Halide Double Perovskites for Optoelectronic Applications. Physical Review Applied, 2018, 10, .	3.8	109
8	Polymorphous nature of cubic halide perovskites. Physical Review B, 2020, 101, .	3.2	104
9	Bismuth and antimony-based oxyhalides and chalcogenides as potential optoelectronic materials. Npj Computational Materials, 2018, 4, .	8.7	86
10	Formation and Composition-Dependent Properties of Alloys of Cubic Halide Perovskites. Chemistry of Materials, 2019, 31, 2497-2506.	6.7	48
11	Effect of static local distortions vs. dynamic motions on the stability and band gaps of cubic oxide and halide perovskites. Materials Today, 2021, 49, 107-122.	14.2	37
12	Realization of predicted exotic materials: The burden of proof. Materials Today, 2020, 32, 35-45.	14.2	29
13	Band structure engineering through van der Waals heterostructuring superlattices of two-dimensional transition metal dichalcogenides. Informa Mater, 2021, 3, 201-211.	17.3	27
14	Understanding electronic peculiarities in tetragonal FeSe as local structural symmetry breaking. Physical Review B, 2020, 102, .	3.2	26
15	Mass enhancement in $\text{CH}_3\text{NH}_3\text{PbI}_3$ and $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskites from symmetry breaking. Physical Review B, 2021, 103, .	3.2	24
16	Design of Mixed-Cation Tri-Layered Pb-Free Halide Perovskites for Optoelectronic Applications. Advanced Electronic Materials, 2019, 5, 1900234.	5.1	21
17	Impact of organic molecule rotation on the optoelectronic properties of hybrid halide perovskites. Physical Review Materials, 2019, 3, .	2.4	20
18	Rational design of new phases of tin monosulfide by first-principles structure searches. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	15

#	ARTICLE	IF	CITATIONS
19	Computational Design of Mixed-Valence Tin Sulfides as Solar Absorbers. ACS Applied Materials & Interfaces, 2019, 11, 24867-24875.	8.0	11
20	Intrinsic local symmetry breaking in nominally cubic paraelectric BaTi_3O_3 . Physical Review B, 2022, 105, 080401.	3.2	10
21	Local positional and spin symmetry breaking as a source of magnetism and insulation in paramagnetic EuTi_3O_3 . Physical Review Materials, 2022, 6, 014001.	2.4	8
22	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). Advanced Functional Materials, 2018, 28, 1870013.	14.9	5
23	Discovery of New Phases of Bismuth Oxyselenide Semiconductor Bi_2OSe_2 by Global Structure Search Approach. Advanced Theory and Simulations, 2021, 4, 2000316.	2.8	2