

Yuhao Fu

List of Publications by Year in descending order

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36
papers

3,840
citations

394421

19
h-index

377865

34
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36
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36
docs citations

36
times ranked

5055
citing authors

#	ARTICLE	IF	CITATIONS
1	Pb ²⁺ doped CsCdBr ₃ perovskite nanorods for pure-blue light-emitting diodes. Chemical Engineering Journal, 2022, 427, 131010.	12.7	25
2	ZnBr ₂ mediated transformation from nonluminescent Cs ₄ PbBr ₆ to green-emitting Zn-doped CsPbBr ₃ /Cs ₄ PbBr ₆ nanocrystals for electroluminescent light-emitting diodes. Chemical Engineering Journal, 2022, 433, 133556.	12.7	12
3	Evaluation of performance of machine learning methods in mining structure-property data of halide perovskite materials. Chinese Physics B, 2022, 31, 056302.	1.4	8
4	Band structure engineering through van der Waals heterostructuring superlattices of two-dimensional transition metal dichalcogenides. Information Materials, 2021, 3, 201-211.	17.3	27
5	Electronic and optical properties of tapered tetrahedral semiconductor nanocrystals. Nanotechnology, 2021, 32, 295203.	2.6	2
6	Phase transition pathway of hybrid halide perovskites under compression: Insights from first-principles calculations. Physical Review Materials, 2021, 5, .	2.4	6
7	Zintl chemistry leading to ultralow thermal conductivity, semiconducting behavior, and high thermoelectric performance of hexagonal KBaBi. Physical Review B, 2021, 103, .	3.2	24
8	JAMIP: an artificial-intelligence aided data-driven infrastructure for computational materials informatics. Science Bulletin, 2021, 66, 1973-1985.	9.0	32
9	Temperature-induced phase transition of two-dimensional semiconductor GaTe*. Chinese Physics B, 2021, 30, 016402.	1.4	2
10	Van der Waals SnSe 2(1-x)S ₂ x Alloys: Composition-Dependent Bowing Coefficient and Electron-Phonon Interaction. Advanced Functional Materials, 2020, 30, 1908092.	14.9	18
11	Discovery of New Polymorphs of Gallium Oxides with Particle Swarm Optimization-Based Structure Searches. Advanced Electronic Materials, 2020, 6, 2000119.	5.1	17
12	Cd-Rich Alloyed CsPb _{1-x} Cd _x Br ₃ Perovskite Nanorods with Tunable Blue Emission and Fermi Levels Fabricated through Crystal Phase Engineering. Advanced Science, 2020, 7, 2000930.	11.2	52
13	Characterization of rattling in relation to thermal conductivity: Ordered half-Heusler semiconductors. Physical Review B, 2020, 101, .	3.2	43
14	Understanding the lattice thermal conductivity of SrTiO ₃ from an ab initio perspective. Physical Review Materials, 2020, 4, .	2.4	10
15	Electronic structure as a guide in screening for potential thermoelectrics: Demonstration for half-Heusler compounds. Physical Review B, 2019, 100, .	3.2	34
16	Density functional methods for the magnetism of transition metals: SCAN in relation to other functionals. Physical Review B, 2019, 100, .	3.2	42
17	Orthorhombic to monoclinic phase transition in NbNiTe ₂ . Physical Review B, 2019, 100, .	3.2	1
18	Spontaneous low-temperature crystallization of δ -FAPbI ₃ for highly efficient perovskite solar cells. Science Bulletin, 2019, 64, 1608-1616.	9.0	58

#	ARTICLE	IF	CITATIONS
19	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. ACS Nano, 2019, 13, 7996-8003.	14.6	64
20	Structural instability and magnetism of superconducting KCr_2S_2 . Physical Review B, 2019, 99, .	3.2	11
21	High-pressure phases of boron arsenide with potential high thermal conductivity. Physical Review B, 2019, 99, .	3.2	15
22	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. Nature Communications, 2019, 10, 815.	12.8	528
23	Dimension Engineering of High-Quality InAs Nanostructures on a Wafer Scale. Nano Letters, 2019, 19, 1632-1642.	9.1	29
24	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional KCr_2S_2 through hydrogen doping. Physical Review B, 2019, 100, .	3.2	11
25	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. Nature Communications, 2019, 10, 270.	12.8	227
26	Collective-Goldstone-mode-induced ultralow lattice thermal conductivity in Sn-filled skutterudite $SnFe_4Sb_{12}$. Physical Review B, 2018, 97, .	3.2	11
27	Applicability of the Strongly Constrained and Appropriately Normed Density Functional to Transition-Metal Magnetism. Physical Review Letters, 2018, 121, 207201.	7.8	118
28	Efficient and stable emission of warm-white light from lead-free halide double perovskites. Nature, 2018, 563, 541-545.	27.8	1,451
29	Frustrated Structural Instability in Superconducting Quasi-One-Dimensional $K_2Cr_2O_7$. Physical Review Letters, 2018, 121, 187002.	7.8	16
30	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
31	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
32	Discovery and ramifications of incidental Magnéli phase generation and release from industrial coal-burning. Nature Communications, 2017, 8, 194.	12.8	44
33	Stability, electronic structures and thermoelectric properties of binary $ZnSb$ materials. Journal of Materials Chemistry C, 2016, 4, 11305-11312.	5.5	19
34	Intrinsic ultralow lattice thermal conductivity of the unfilled skutterudite $FeSb_3$. Physical Review B, 2016, 94, .	3.2	11
35	Entropy-Driven Stabilization of Multielement Halide Double-Perovskite Alloys. Journal of Physical Chemistry Letters, 0, , 5017-5024.	4.6	4
36	Inorganic Crystal Structure Prototype Database Based on Unsupervised Learning of Local Atomic Environments. Journal of Physical Chemistry A, 0, , .	2.5	1