

# 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  
g-index

36  
all docs

36  
docs citations

36  
times ranked

5055  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and stable emission of warm-white light from lead-free halide double perovskites. <i>Nature</i> , 2018, 563, 541-545.	27.8	1,451
2	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
3	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. <i>Nature Communications</i> , 2019, 10, 815.	12.8	528
4	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. <i>Nature Communications</i> , 2019, 10, 270.	12.8	227
5	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
6	Applicability of the Strongly Constrained and Appropriately Normed Density Functional to Transition-Metal Magnetism. <i>Physical Review Letters</i> , 2018, 121, 207201.	7.8	118
7	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. <i>ACS Nano</i> , 2019, 13, 7996-8003.	14.6	64
8	Spontaneous low-temperature crystallization of $\text{FAPbI}_3$ for highly efficient perovskite solar cells. <i>Science Bulletin</i> , 2019, 64, 1608-1616.	9.0	58
9	Cd-Rich Alloyed $\text{CsPb}_{1-x}\text{Cd}_x\text{Br}_3$ Perovskite Nanorods with Tunable Blue Emission and Fermi Levels Fabricated through Crystal Phase Engineering. <i>Advanced Science</i> , 2020, 7, 2000930.	11.2	52
10	Discovery and ramifications of incidental Magn $\text{Al}$ phase generation and release from industrial coal-burning. <i>Nature Communications</i> , 2017, 8, 194.	12.8	44
11	Characterization of rattling in relation to thermal conductivity: Ordered half-Heusler semiconductors. <i>Physical Review B</i> , 2020, 101, .	3.2	43
12	Density functional methods for the magnetism of transition metals: SCAN in relation to other functionals. <i>Physical Review B</i> , 2019, 100, .	3.2	42
13	Electronic structure as a guide in screening for potential thermoelectrics: Demonstration for half-Heusler compounds. <i>Physical Review B</i> , 2019, 100, .	3.2	34
14	JAMIP: an artificial-intelligence aided data-driven infrastructure for computational materials informatics. <i>Science Bulletin</i> , 2021, 66, 1973-1985.	9.0	32
15	Dimension Engineering of High-Quality InAs Nanostructures on a Wafer Scale. <i>Nano Letters</i> , 2019, 19, 1632-1642.	9.1	29
16	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
17	Pb <sup>2+</sup> doped $\text{CsCdBr}_3$ perovskite nanorods for pure-blue light-emitting diodes. <i>Chemical Engineering Journal</i> , 2022, 427, 131010.	12.7	25
18	Zintl chemistry leading to ultralow thermal conductivity, semiconducting behavior, and high thermoelectric performance of hexagonal $\text{KBaBi}$ . <i>Physical Review B</i> , 2021, 103, .	3.2	24

#	ARTICLE	IF	CITATIONS
19	Intrinsic ultralow lattice thermal conductivity of the unfilled skutterudite $\text{FeSb}_3$ . Physical Review B, 2016, 94, .	3.2	22
20	Stability, electronic structures and thermoelectric properties of binary $\text{ZnSb}$ materials. Journal of Materials Chemistry C, 2016, 4, 11305-11312.	5.5	19
21	Van der Waals $\text{SnSe}_2$ Alloys: Composition-Dependent Bowing Coefficient and Electron-Phonon Interaction. Advanced Functional Materials, 2020, 30, 1908092.	14.9	18
22	Discovery of New Polymorphs of Gallium Oxides with Particle Swarm Optimization-Based Structure Searches. Advanced Electronic Materials, 2020, 6, 2000119.	5.1	17
23	Frustrated Structural Instability in Superconducting Quasi-One-Dimensional $\text{K}_2\text{Fe}_4\text{As}_8$ . Physical Review Letters, 2018, 121, 167002.	7.8	16
24	High-pressure phases of boron arsenide with potential high thermal conductivity. Physical Review B, 2019, 99, .	3.2	15
25	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional $\text{KCr}_2\text{AsF}_6$ through hydrogen doping. Physical Review B, 2019, 100, .	3.2	15
26	Understanding the lattice thermal conductivity of $\text{SrTiO}_3$ from an <i>ab initio</i> perspective. Physical Review Materials, 2020, 4, .	2.4	11
27	$\text{ZnBr}_2$ mediated transformation from nonluminescent $\text{Cs}_4\text{PbBr}_6$ to green-emitting Zn-doped $\text{CsPbBr}_3/\text{Cs}_4\text{PbBr}_6$ nanocrystals for electroluminescent light-emitting diodes. Chemical Engineering Journal, 2022, 433, 133556.	12.7	12
28	Collective-Goldstone-mode-induced ultralow lattice thermal conductivity in Sn-filled skutterudite $\text{SnFe}_4\text{Sb}_{11}$ . Physical Review B, 2018, 97, .	3.2	11
29	Structural instability and magnetism of superconducting $\text{KCr}_2\text{AsF}_6$ . Physical Review B, 2019, 99, .	3.2	11
30	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
31	Phase transition pathway of hybrid halide perovskites under compression: Insights from first-principles calculations. Physical Review Materials, 2021, 5, .	2.4	6
32	Entropy-Driven Stabilization of Multielement Halide Double-Perovskite Alloys. Journal of Physical Chemistry Letters, 0, , 5017-5024.	4.6	4
33	Electronic and optical properties of tapered tetrahedral semiconductor nanocrystals. Nanotechnology, 2021, 32, 295203.	2.6	2
34	Temperature-induced phase transition of two-dimensional semiconductor $\text{GaTe}^*$ . Chinese Physics B, 2021, 30, 016402.	1.4	2
35	Orthorhombic to monoclinic phase transition in $\text{NbNiTe}_2$ . Physical Review B, 2019, 100, .	3.2	1
36	Inorganic Crystal Structure Prototype Database Based on Unsupervised Learning of Local Atomic Environments. Journal of Physical Chemistry A, 0, , .	2.5	1