Yongping Fu

List of Publications by Year
in descending order

48 papers	10,200 citations	81743 39 h-index	214527 47 g-index
48 all docs	48 docs citations	48 times ranked	12863 citing authors

#	Article	IF	Citations
1	Stabilization of Metastable Halide Perovskite Lattices in the 2D Limit. Advanced Materials, 2022, 34, e2108556.	11.1	31
2	Understanding Electronâ€“Phonon Interactions in 3D Lead Halide Perovskites from the Stereochemical Expression of 6s² Lone Pairs. Journal of the American Chemical Society, 2022, 144, 12247-12260.	6.6	38
3	Deterministic fabrication of arbitrary vertical heterostructures of two-dimensional Ruddlesdenâ€“Popper halide perovskites. Nature Nanotechnology, 2021, 16, 159-165.	15.6	90
4	Solvated Electrons in Solidsâ€"Ferroelectric Large Polarons in Lead Halide Perovskites. Journal of the American Chemical Society, 2021, 143, 5-16.	6.6	44
5	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. Chemical Reviews, 2021, 121, 12112-12180.	23.0	70
6	Stereochemical expression of ns2 electron pairs in metal halide perovskites. Nature Reviews Chemistry, 2021, 5, 838-852.	13.8	53
7	Spin-orbitâ€“coupled exciton-polariton condensates in lead halide perovskites. Science Advances, 2021, 7, eabj7667.	4.7	30
8	Pressureâ€Suppressed Carrier Trapping Leads to Enhanced Emission in Twoâ€Dimensional Perovskite (HA)₂(GA)Pb₂I₇. Angewandte Chemie, 2020, 132, 17686-17692.	1.6	26
9	Disentangling Second Harmonic Generation from Multiphoton Photoluminescence in Halide Perovskites using Multidimensional Harmonic Generation. Journal of Physical Chemistry Letters, 2020, 11, 6551-6559.	2.1	18
10	Phenethylammonium Functionalization Enhances Near-Surface Carrier Diffusion in Hybrid Perovskites. Journal of the American Chemical Society, 2020, 142, 16254-16264.	6.6	42
11	Negative Pressure Engineering with Large Cage Cations in 2D Halide Perovskites Causes Lattice Softening. Journal of the American Chemical Society, 2020, 142, 11486-11496.	6.6	84
12	Pressureâ€Suppressed Carrier Trapping Leads to Enhanced Emission in Twoâ€Dimensional Perovskite (HA)₂(GA)Pb₂I₇. Angewandte Chemie - International Edition, 2020, 59, 17533-17539.	7.2	71
13	Cation Engineering in Two-Dimensional Ruddlesdenâ€“Popper Lead Iodide Perovskites with Mixed Large A-Site Cations in the Cages. Journal of the American Chemical Society, 2020, 142, 4008-4021.	6.6	101
14	Temperature and Gate Dependence of Carrier Diffusion in Single Crystal Methylammonium Lead Iodide Perovskite Microstructures. Journal of Physical Chemistry Letters, 2020, 11, 1000-1006.	2.1	12
15	Band Edge Tuning of Two-Dimensional Ruddlesdenâ€“Popper Perovskites by A Cation Size Revealed through Nanoplates. ACS Energy Letters, 2020, 5, 1430-1437.	8.8	51
16	Incorporating Large A Cations into Lead Iodide Perovskite Cages: Relaxed Goldschmidt Tolerance Factor and Impact on Excitonâ€“Phonon Interaction. ACS Central Science, 2019, 5, 1377-1386.	5.3	142
17	Metal halide perovskite nanostructures for optoelectronic applications and the study of physical properties. Nature Reviews Materials, 2019, 4, 169-188.	23.3	598
18	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. ACS Nano, 2019, 13, 7996-8003.	7.3	64

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19	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX₃; X = Br, I) Nanowires. ACS Energy Letters, 2019, 4, 1045-1052.	8.8	84
20	Visualization and Studies of Ion-Diffusion Kinetics in Cesium Lead Bromide Perovskite Nanowires. Nano Letters, 2018, 18, 1807-1813.	4.5	136
21	Continuousâ€Wave Lasing in Cesium Lead Bromide Perovskite Nanowires. Advanced Optical Materials, 2018, 6, 1700982.	3.6	161
22	Multicolor Heterostructures of Two-Dimensional Layered Halide Perovskites that Show Interlayer Energy Transfer. Journal of the American Chemical Society, 2018, 140, 15675-15683.	6.6	95
23	Allâ€Inorganic Bismuthâ€Based Perovskite Quantum Dots with Bright Blue Photoluminescence and Excellent Stability. Advanced Functional Materials, 2018, 28, 1704446.	7.8	375
24	Single-crystal microplates of two-dimensional organicâ€“inorganic lead halide layered perovskites for optoelectronics. Nano Research, 2017, 10, 2117-2129.	5.8	109
25	Stabilization of the Metastable Lead Iodide Perovskite Phase via Surface Functionalization. Nano Letters, 2017, 17, 4405-4414.	4.5	204
26	Global Analysis of Perovskite Photophysics Reveals Importance of Geminate Pathways. Journal of Physical Chemistry C, 2017, 121, 1062-1071.	1.5	22
27	Vapor-Phase Epitaxial Growth of Aligned Nanowire Networks of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, I). Nano Letters, 2017, 17, 460-466.	4.5	255
28	Direct Vapor Growth of Perovskite CsPbBr₃ Nanoplate Electroluminescence Devices. ACS Nano, 2017, 11, 9869-9876.	7.3	117
29	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO₃). Journal of the American Chemical Society, 2017, 139, 13525-13532.	6.6	209
30	Selective Stabilization and Photophysical Properties of Metastable Perovskite Polymorphs of CsPbI₃ in Thin Films. Chemistry of Materials, 2017, 29, 8385-8394.	3.2	170
31	Two-Dimensional Lead Halide Perovskites Templated by a Conjugated Asymmetric Diammonium. Inorganic Chemistry, 2017, 56, 14991-14998.	1.9	56
32	Organic Cations Might Not Be Essential to the Remarkable Properties of Band Edge Carriers in Lead Halide Perovskites. Advanced Materials, 2017, 29, 1603072.	11.1	166
33	Screening in crystalline liquids protects energetic carriers in hybrid perovskites. Science, 2016, 353, 1409-1413.	6.0	655
34	Carrier Decay Properties of Mixed Cation Formamidiniumâ€“Methylammonium Lead Iodide Perovskite [HC(NH2)2]1â€“x[CH3NH3]xPbI3 Nanorods. Journal of Physical Chemistry Letters, 2016, 7, 5036-5043.	2.1	61
35	Broad Wavelength Tunable Robust Lasing from Single-Crystal Nanowires of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, I). ACS Nano, 2016, 10, 7963-7972.	7.3	507
36	Photocurrent Mapping in Single-Crystal Methylammonium Lead Iodide Perovskite Nanostructures. Nano Letters, 2016, 16, 7710-7717.	4.5	56

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37	Color-Pure Violet-Light-Emitting Diodes Based on Layered Lead Halide Perovskite Nanoplates. ACS Nano, 2016, 10, 6897-6904.	7.3	378
38	Nanowire Lasers of Formamidinium Lead Halide Perovskites and Their Stabilized Alloys with Improved Stability. Nano Letters, 2016, 16, 1000-1008.	4.5	391
39	Solution Growth of Single Crystal Methylammonium Lead Halide Perovskite Nanostructures for Optoelectronic and Photovoltaic Applications. Journal of the American Chemical Society, 2015, 137, 5810-5818.	6.6	368
40	Lead halide perovskite nanowire lasers with low lasing thresholds and high quality factors. Nature Materials, 2015, 14, 636-642.	13.3	2,392
41	High-Performance Electrocatalysis for Hydrogen Evolution Reaction Using Se-Doped Pyrite-Phase Nickel Diphosphide Nanostructures. ACS Catalysis, 2015, 5, 6355-6361.	5.5	258
42	Flexible planar/fiber-architectured supercapacitors for wearable energy storage. Journal of Materials Chemistry C, 2014, 2, 1184-1200.	2.7	207
43	Integrated power fiber for energy conversion and storage. Energy and Environmental Science, 2013, 6, 805.	15.6	359
44	Fiber Supercapacitors Utilizing Pen Ink for Flexible/Wearable Energy Storage. Advanced Materials, 2012, 24, 5713-5718.	11.1	571
45	TCOâ€Free, Flexible, and Bifacial Dyeâ€Sensitized Solar Cell Based on Lowâ€Cost Metal Wires. Advanced Energy Materials, 2012, 2, 37-41.	10.2	68
46	TCO-Free, Flexible, and Bifacial Dye-Sensitized Solar Cell Based on Low-Cost Metal Wires (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10 T	10.2	0
47	Conjunction of fiber solar cells with groovy micro-reflectors as highly efficient energy harvesters. Energy and Environmental Science, 2011, 4, 3379.	15.6	101
48	Transparent conductive oxide-less, flexible, and highly efficient dye-sensitized solar cells with commercialized carbon fiber as the counter electrode. Journal of Materials Chemistry, 2011, 21, 13776.	6.7	104