Yongping Fu

List of Publications by Year in descending order

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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	Lead halide perovskite nanowire lasers with low lasing thresholds and high quality factors. Nature Materials, 2015, 14, 636-642.	13.3	2,392
2	Screening in crystalline liquids protects energetic carriers in hybrid perovskites. Science, 2016, 353, 1409-1413.	6.0	655
3	Metal halide perovskite nanostructures for optoelectronic applications and the study of physical properties. Nature Reviews Materials, 2019, 4, 169-188.	23.3	598
4	Fiber Supercapacitors Utilizing Pen Ink for Flexible/Wearable Energy Storage. Advanced Materials, 2012, 24, 5713-5718.	11.1	571
5	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
6	Nanowire Lasers of Formamidinium Lead Halide Perovskites and Their Stabilized Alloys with Improved Stability. Nano Letters, 2016, 16, 1000-1008.	4.5	391
7	Color-Pure Violet-Light-Emitting Diodes Based on Layered Lead Halide Perovskite Nanoplates. ACS Nano, 2016, 10, 6897-6904.	7.3	378
8	Allâ€Inorganic Bismuthâ€Based Perovskite Quantum Dots with Bright Blue Photoluminescence and Excellent Stability. Advanced Functional Materials, 2018, 28, 1704446.	7.8	375
9	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
10	Integrated power fiber for energy conversion and storage. Energy and Environmental Science, 2013, 6, 805.	15.6	359
11	High-Performance Electrocatalysis for Hydrogen Evolution Reaction Using Se-Doped Pyrite-Phase Nickel Diphosphide Nanostructures. ACS Catalysis, 2015, 5, 6355-6361.	5.5	258
12	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
13	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
14	Flexible planar/fiber-architectured supercapacitors for wearable energy storage. Journal of Materials Chemistry C, 2014, 2, 1184-1200.	2.7	207
15	Stabilization of the Metastable Lead Iodide Perovskite Phase via Surface Functionalization. Nano Letters, 2017, 17, 4405-4414.	4.5	204
16	Selective Stabilization and Photophysical Properties of Metastable Perovskite Polymorphs of CsPbI₃ in Thin Films. Chemistry of Materials, 2017, 29, 8385-8394.	3.2	170
17	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
18	Continuousâ€Wave Lasing in Cesium Lead Bromide Perovskite Nanowires. Advanced Optical Materials, 2018, 6, 1700982.	3.6	161

#	Article	IF	Citations
19	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
20	Visualization and Studies of Ion-Diffusion Kinetics in Cesium Lead Bromide Perovskite Nanowires. Nano Letters, 2018, 18, 1807-1813.	4.5	136
21	Direct Vapor Growth of Perovskite CsPbBr₃ Nanoplate Electroluminescence Devices. ACS Nano, 2017, 11, 9869-9876.	7.3	117
22	Single-crystal microplates of two-dimensional organicâ€“inorganic lead halide layered perovskites for optoelectronics. Nano Research, 2017, 10, 2117-2129.	5.8	109
23	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
24	Conjunction of fiber solar cells with groovy micro-reflectors as highly efficient energy harvesters. Energy and Environmental Science, 2011, 4, 3379.	15.6	101
25	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
26	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
27	Deterministic fabrication of arbitrary vertical heterostructures of two-dimensional Ruddlesdenâ€“Popper halide perovskites. Nature Nanotechnology, 2021, 16, 159-165.	15.6	90
28	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
29	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
30	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
31	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. Chemical Reviews, 2021, 121, 12112-12180.	23.0	70
32	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
33	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. ACS Nano, 2019, 13, 7996-8003.	7.3	64
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	Photocurrent Mapping in Single-Crystal Methylammonium Lead Iodide Perovskite Nanostructures. Nano Letters, 2016, 16, 7710-7717.	4.5	56
36	Two-Dimensional Lead Halide Perovskites Templated by a Conjugated Asymmetric Diammonium. Inorganic Chemistry, 2017, 56, 14991-14998.	1.9	56

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37	Stereochemical expression of ns2 electron pairs in metal halide perovskites. Nature Reviews Chemistry, 2021, 5, 838-852.	13.8	53
38	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
39	Solvated Electrons in Solidsâ€”Ferroelectric Large Polarons in Lead Halide Perovskites. Journal of the American Chemical Society, 2021, 143, 5-16.	6.6	44
40	Phenethylammonium Functionalization Enhances Near-Surface Carrier Diffusion in Hybrid Perovskites. Journal of the American Chemical Society, 2020, 142, 16254-16264.	6.6	42
41	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
42	Stabilization of Metastable Halide Perovskite Lattices in the 2D Limit. Advanced Materials, 2022, 34, e2108556.	11.1	31
43	Spin-orbitâ€“coupled exciton-polariton condensates in lead halide perovskites. Science Advances, 2021, 7, eabj7667.	4.7	30
44	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
45	Global Analysis of Perovskite Photophysics Reveals Importance of Geminate Pathways. Journal of Physical Chemistry C, 2017, 121, 1062-1071.	1.5	22
46	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
47	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
48	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