

Yongping Fu

List of Publications by Year in descending order

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48
papers

10,200
citations

81900

39
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214800

47
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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.	27.5	2,392
2	Screening in crystalline liquids protects energetic carriers in hybrid perovskites. Science, 2016, 353, 1409-1413.	12.6	655
3	Metal halide perovskite nanostructures for optoelectronic applications and the study of physical properties. Nature Reviews Materials, 2019, 4, 169-188.	48.7	598
4	Fiber Supercapacitors Utilizing Pen Ink for Flexible/Wearable Energy Storage. Advanced Materials, 2012, 24, 5713-5718.	21.0	571
5	Broad Wavelength Tunable Robust Lasing from Single-Crystal Nanowires of Cesium Lead Halide Perovskites (CsPbX_3 , X = Cl, Br, I). ACS Nano, 2016, 10, 7963-7972.	14.6	507
6	Nanowire Lasers of Formamidinium Lead Halide Perovskites and Their Stabilized Alloys with Improved Stability. Nano Letters, 2016, 16, 1000-1008.	9.1	391
7	Color-Pure Violet-Light-Emitting Diodes Based on Layered Lead Halide Perovskite Nanoplates. ACS Nano, 2016, 10, 6897-6904.	14.6	378
8	All-Inorganic Bismuth-Based Perovskite Quantum Dots with Bright Blue Photoluminescence and Excellent Stability. Advanced Functional Materials, 2018, 28, 1704446.	14.9	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.	13.7	368
10	Integrated power fiber for energy conversion and storage. Energy and Environmental Science, 2013, 6, 805.	30.8	359
11	High-Performance Electrocatalysis for Hydrogen Evolution Reaction Using Se-Doped Pyrite-Phase Nickel Diphosphide Nanostructures. ACS Catalysis, 2015, 5, 6355-6361.	11.2	258
12	Vapor-Phase Epitaxial Growth of Aligned Nanowire Networks of Cesium Lead Halide Perovskites (CsPbX_3 , X = Cl, Br, I). Nano Letters, 2017, 17, 460-466.	9.1	255
13	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO_3). Journal of the American Chemical Society, 2017, 139, 13525-13532.	13.7	209
14	Flexible planar/fiber-architected supercapacitors for wearable energy storage. Journal of Materials Chemistry C, 2014, 2, 1184-1200.	5.5	207
15	Stabilization of the Metastable Lead Iodide Perovskite Phase via Surface Functionalization. Nano Letters, 2017, 17, 4405-4414.	9.1	204
16	Selective Stabilization and Photophysical Properties of Metastable Perovskite Polymorphs of CsPbI_3 in Thin Films. Chemistry of Materials, 2017, 29, 8385-8394.	6.7	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.	21.0	166
18	Continuous-Wave Lasing in Cesium Lead Bromide Perovskite Nanowires. Advanced Optical Materials, 2018, 6, 1700982.	7.3	161

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19	Incorporating Large A Cations into Lead Iodide Perovskite Cages: Relaxed Goldschmidt Tolerance Factor and Impact on Exciton-Phonon Interaction. ACS Central Science, 2019, 5, 1377-1386.	11.3	142
20	Visualization and Studies of Ion-Diffusion Kinetics in Cesium Lead Bromide Perovskite Nanowires. Nano Letters, 2018, 18, 1807-1813.	9.1	136
21	Direct Vapor Growth of Perovskite CsPbBr ₃ Nanoplate Electroluminescence Devices. ACS Nano, 2017, 11, 9869-9876.	14.6	117
22	Single-crystal microplates of two-dimensional organic-inorganic lead halide layered perovskites for optoelectronics. Nano Research, 2017, 10, 2117-2129.	10.4	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.	30.8	101
25	Cation Engineering in Two-Dimensional Ruddlesden-Popper Lead Iodide Perovskites with Mixed Large A-Site Cations in the Cages. Journal of the American Chemical Society, 2020, 142, 4008-4021.	13.7	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.	13.7	95
27	Deterministic fabrication of arbitrary vertical heterostructures of two-dimensional Ruddlesden-Popper halide perovskites. Nature Nanotechnology, 2021, 16, 159-165.	31.5	90
28	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX ₃ ; X = Br, I) Nanowires. ACS Energy Letters, 2019, 4, 1045-1052.	17.4	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.	13.7	84
30	Pressure-Suppressed Carrier Trapping Leads to Enhanced Emission in Two-Dimensional Perovskite (HA) ₂ (GA)Pb ₂ I ₇ . Angewandte Chemie - International Edition, 2020, 59, 17533-17539.	13.8	71
31	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. Chemical Reviews, 2021, 121, 12112-12180.	47.7	70
32	TCO-Free, Flexible, and Bifacial Dye-Sensitized Solar Cell Based on Low-Cost Metal Wires. Advanced Energy Materials, 2012, 2, 37-41.	19.5	68
33	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. ACS Nano, 2019, 13, 7996-8003.	14.6	64
34	Carrier Decay Properties of Mixed Cation Formamidinium-Methylammonium Lead Iodide Perovskite [HC(NH ₂) ₂] ⁺ [CH ₃ NH ₃] ⁺ PbI ₃ Nanorods. Journal of Physical Chemistry Letters, 2016, 7, 5036-5043.	4.6	61
35	Photocurrent Mapping in Single-Crystal Methylammonium Lead Iodide Perovskite Nanostructures. Nano Letters, 2016, 16, 7710-7717.	9.1	56
36	Two-Dimensional Lead Halide Perovskites Templated by a Conjugated Asymmetric Diammonium. Inorganic Chemistry, 2017, 56, 14991-14998.	4.0	56

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37	Stereochemical expression of ns ² electron pairs in metal halide perovskites. Nature Reviews Chemistry, 2021, 5, 838-852.	30.2	53
38	Band Edge Tuning of Two-Dimensional Ruddlesden-Popper Perovskites by A Cation Size Revealed through Nanoplates. ACS Energy Letters, 2020, 5, 1430-1437.	17.4	51
39	Solvated Electrons in Solids—Ferroelectric Large Polarons in Lead Halide Perovskites. Journal of the American Chemical Society, 2021, 143, 5-16.	13.7	44
40	Phenethylammonium Functionalization Enhances Near-Surface Carrier Diffusion in Hybrid Perovskites. Journal of the American Chemical Society, 2020, 142, 16254-16264.	13.7	42
41	Understanding Electron-Phonon Interactions in 3D Lead Halide Perovskites from the Stereochemical Expression of 6s ² Lone Pairs. Journal of the American Chemical Society, 2022, 144, 12247-12260.	13.7	38
42	Stabilization of Metastable Halide Perovskite Lattices in the 2D Limit. Advanced Materials, 2022, 34, e2108556.	21.0	31
43	Spin-orbit-coupled exciton-polariton condensates in lead halide perovskites. Science Advances, 2021, 7, eabj7667.	10.3	30
44	Pressure-Suppressed Carrier Trapping Leads to Enhanced Emission in Two-Dimensional Perovskite (HA) ₂ (GA)Pb ₂ I ₇ . Angewandte Chemie, 2020, 132, 17686-17692.	2.0	26
45	Global Analysis of Perovskite Photophysics Reveals Importance of Geminate Pathways. Journal of Physical Chemistry C, 2017, 121, 1062-1071.	3.1	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.	4.6	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.	4.6	12
48	TCO-Free, Flexible, and Bifacial Dye-Sensitized Solar Cell Based on Low-Cost Metal Wires (Adv. Energy) Tj ETQq0 0 Q qgBT /Overlock 10 T	19.8	8