Zonghao Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58	4,457 citations	33	63
papers		h-index	g-index
63 ext. papers	5,296 ext. citations	15.2 avg, IF	5.74 L-index

#	Paper	IF	Citations
58	Boost the efficiency of nickel oxide-based formamidinium-cesium perovskite solar cells to 21% by using coumarin 343 dye as defect passivator. <i>Nano Energy</i> , 2022 , 94, 106935	17.1	7
57	Strategies for highly efficient and stable cesium lead iodide perovskite photovoltaics: mechanisms and processes. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 4999-5023	7.1	3
56	A Review on Encapsulation Technology from Organic Light Emitting Diodes to Organic and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2100151	15.6	47
55	Slot-die coating large-area formamidinium-cesium perovskite film for efficient and stable parallel solar module. <i>Science Advances</i> , 2021 , 7,	14.3	66
54	Evaporated potassium chloride for double-sided interfacial passivation in inverted planar perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 54, 493-500	12	12
53	Scalable Fabrication of >90 cm2 Perovskite Solar Modules with >1000 h Operational Stability Based on the Intermediate Phase Strategy. <i>Advanced Energy Materials</i> , 2021 , 11, 2003712	21.8	33
52	The Impact of Atmosphere on Energetics of Lead Halide Perovskites. <i>Advanced Energy Materials</i> , 2020 , 10, 2000908	21.8	8
51	Inverse Growth of Large-Grain-Size and Stable Inorganic Perovskite Micronanowire Photodetectors. <i>ACS Applied Materials & Discrete Mate</i>	9.5	21
50	Imaging of the Atomic Structure of All-Inorganic Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 818-823	6.4	21
49	Interface engineering strategies towards Cs2AgBiBr6 single-crystalline photodetectors with good Ohmic contact behaviours. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 276-284	7.1	53
48	Additives in metal halide perovskite films and their applications in solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 46, 215-228	12	32
47	Rapid hybrid chemical vapor deposition for efficient and hysteresis-free perovskite solar modules with an operation lifetime exceeding 800 hours. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23404-23412	13	17
46	A holistic approach to interface stabilization for efficient perovskite solar modules with over 2,000-hour operational stability. <i>Nature Energy</i> , 2020 , 5, 596-604	62.3	140
45	Photon Upconverting Solid Films with Improved Efficiency for Endowing Perovskite Solar Cells with Near-Infrared Sensitivity. <i>ChemPhotoChem</i> , 2020 , 4, 5271-5278	3.3	14
44	Barrier Designs in Perovskite Solar Cells for Long-Term Stability. <i>Advanced Energy Materials</i> , 2020 , 10, 2001610	21.8	45
43	Highly Efficient Perovskite Solar Cells Enabled by Multiple Ligand Passivation. <i>Advanced Energy Materials</i> , 2020 , 10, 1903696	21.8	119
42	Highly Efficient and Stable Perovskite Solar Cells via Modification of Energy Levels at the Perovskite/Carbon Electrode Interface. <i>Advanced Materials</i> , 2019 , 31, e1804284	24	116

(2017-2019)

41	Reduction of lead leakage from damaged lead halide perovskite solar modules using self-healing polymer-based encapsulation. <i>Nature Energy</i> , 2019 , 4, 585-593	62.3	191
40	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1900390	24	62
39	Phase transition induced recrystallization and low surface potential barrier leading to 10.91%-efficient CsPbBr3 perovskite solar cells. <i>Nano Energy</i> , 2019 , 65, 104015	17.1	111
38	Carbon-Based Electrode Engineering Boosts the Efficiency of All Low-Temperature-Processed Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 2032-2039	20.1	42
37	Engineering Green-to-Blue Emitting CsPbBr3 Quantum-Dot Films with Efficient Ligand Passivation. <i>ACS Energy Letters</i> , 2019 , 4, 2731-2738	20.1	17
36	Counter Electrode Materials for Organic-Inorganic Perovskite Solar Cells 2019 , 165-225		1
35	Hybrid chemical vapor deposition enables scalable and stable Cs-FA mixed cation perovskite solar modules with a designated area of 91.8 cm2 approaching 10% efficiency. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6920-6929	13	69
34	Negligible-Pb-Waste and Upscalable Perovskite Deposition Technology for High-Operational-Stability Perovskite Solar Modules. <i>Advanced Energy Materials</i> , 2019 , 9, 1803047	21.8	48
33	Scalable Fabrication of Stable High Efficiency Perovskite Solar Cells and Modules Utilizing Room Temperature Sputtered SnO2 Electron Transport Layer. <i>Advanced Functional Materials</i> , 2019 , 29, 18067	75 ^{.6}	84
32	[6,6]-Phenyl-C-Butyric Acid Methyl Ester/Cerium Oxide Bilayer Structure as Efficient and Stable Electron Transport Layer for Inverted Perovskite Solar Cells. <i>ACS Nano</i> , 2018 , 12, 2403-2414	16.7	86
31	Molecular Engineering of Zinc-Porphyrin Sensitisers for p-Type Dye-Sensitised Solar Cells. <i>ChemPlusChem</i> , 2018 , 83, 711-720	2.8	8
30	Enhancing Optical, Electronic, Crystalline, and Morphological Properties of Cesium Lead Halide by Mn Substitution for High-Stability All-Inorganic Perovskite Solar Cells with Carbon Electrodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1800504	21.8	221
29	Gas-solid reaction based over one-micrometer thick stable perovskite films for efficient solar cells and modules. <i>Nature Communications</i> , 2018 , 9, 3880	17.4	82
28	Molecular Engineering of Zinc-Porphyrin Sensitisers for p-Type Dye-Sensitised Solar Cells. <i>ChemPlusChem</i> , 2018 , 83, 547	2.8	
27	Rationally Induced Interfacial Dipole in Planar Heterojunction Perovskite Solar Cells for Reduced JW Hysteresis. <i>Advanced Energy Materials</i> , 2018 , 8, 1800568	21.8	19
26	Nickel oxide nanoparticles for efficient hole transport in p-i-n and n-i-p perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6597-6605	13	159
25	Chemical Reduction of Intrinsic Defects in Thicker Heterojunction Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1606774	24	267
24	To probe the performance of perovskite memory devices: defects property and hysteresis. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5810-5817	7.1	46

23	The intrinsic properties of FA(1⅓)MAxPbI3 perovskite single crystals. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8537-8544	13	110
22	Photon management for efficient hybrid perovskite solar cells via synergetic localized grating and enhanced fluorescence effect. <i>Nano Energy</i> , 2017 , 40, 540-549	17.1	18
21	Guanidinium: A Route to Enhanced Carrier Lifetime and Open-Circuit Voltage in Hybrid Perovskite Solar Cells. <i>Nano Letters</i> , 2016 , 16, 1009-16	11.5	400
20	Solvent effects on adsorption kinetics, dye monolayer, and cell performance of porphyrin-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 114037-114045	3.7	2
19	Low-Temperature TiOx Compact Layer for Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials & Discrete Solar Cells</i> , 8, 11076-83	9.5	91
18	The Additive Coordination Effect on Hybrids Perovskite Crystallization and High-Performance Solar Cell. <i>Advanced Materials</i> , 2016 , 28, 9862-9868	24	235
17	Semitransparent Fully Air Processed Perovskite Solar Cells. <i>ACS Applied Materials & Description</i> (2015, 7, 17776-81)	9.5	65
16	Hole selective NiO contact for efficient perovskite solar cells with carbon electrode. <i>Nano Letters</i> , 2015 , 15, 2402-8	11.5	357
15	Working Mechanism for Flexible Perovskite Solar Cells with Simplified Architecture. <i>Nano Letters</i> , 2015 , 15, 6514-20	11.5	82
14	NiO nanosheets as efficient top hole transporters for carbon counter electrode based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24121-24127	13	81
13	Multifunctional Fullerene Derivative for Interface Engineering in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15540-7	16.4	433
12	p-Type mesoscopic NiO as an active interfacial layer for carbon counter electrode based perovskite solar cells. <i>Dalton Transactions</i> , 2015 , 44, 3967-73	4.3	125
11	Thiophene-Functionalized Porphyrins: Synthesis, Photophysical Properties, and Photovoltaic Performance in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5265-5273	3.8	33
10	Fine tuning of fluorene-based dye structures for high-efficiency p-type dye-sensitized solar cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 10614-22	9.5	55
9	Fluorene functionalized porphyrins as broadband absorbers for TiO2 nanocrystalline solar cells. Journal of Materials Chemistry A, 2014 , 2, 13667	13	17
8	Bis(9,9-dihexyl-9H-fluorene-7-yl)amine (BDFA) as a new donor for porphyrin-sensitized solar cells. <i>Organic Electronics</i> , 2014 , 15, 2448-2460	3.5	6
7	Near-infrared absorbing porphyrin dyes with perpendicularly extended £conjugation for dye-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 50897-50905	3.7	4
6	Modulated charge injection in p-type dye-sensitized solar cells using fluorene-based light absorbers. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 3448-54	9.5	42

LIST OF PUBLICATIONS

5	Modulated growth of high-quality CsPbI3 perovskite film using a molybdenum modified SnO2 layer for highly efficient solar cells. <i>Journal of Materials Chemistry A</i> ,	13	4
4	Recent Progress on Metal Halide Perovskite Solar Minimodules. <i>Solar Rrl</i> ,2100458	7.1	5
3	A General Low-Temperature Strategy to Prepare High-Quality Metal Sulfides Charge-Transporting Layers for All-Inorganic CsPbI 2 Br Perovskite Solar Cells. <i>Solar Rrl</i> ,2200098	7.1	1
2	In-situ characterization for understanding the degradation in perovskite solar cells. Solar Rrl,	7.1	3
1	Rear Electrode Materials for Perovskite Solar Cells. <i>Advanced Functional Materials</i> ,2200651	15.6	5