Lichen Zhao

List of Publications by Year
in descending order

20 papers	3,026 citations	430754 18 h-index	752573 20 g-index
21 all docs	21 docs citations	21 times ranked	4134 citing authors

#	Article	IF	Citations
1	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. Science, 2018, 360, 1442-1446.	6.0	1,221
2	Chargeâ€Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Materials, 2016, 28, 10718-10724.	11.1	214
3	Buried Interfaces in Halide Perovskite Photovoltaics. Advanced Materials, 2021, 33, e2006435.	11.1	214
4	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [PbI6]4â^' cage nanoparticles. Nature Communications, 2017, 8, 15688.	5.8	191
5	Highâ€Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18%. Advanced Functional Materials, 2016, 26, 3508-3514.	7.8	176
6	Superior Carrier Lifetimes Exceeding 6 Âµs in Polycrystalline Halide Perovskites. Advanced Materials, 2020, 32, e2002585.	11.1	151
7	Dualâ€Source Precursor Approach for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Materials, 2017, 29, 1604758.	11.1	142
8	Diboronâ€Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. Advanced Materials, 2018, 30, e1805085.	11.1	128
9	Mesoporous PbI₂ Scaffold for Highâ€Performance Planar Heterojunction Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1501890.	10.2	124
10	Depth-dependent defect manipulation in perovskites for high-performance solar cells. Energy and Environmental Science, 2021, 14, 6526-6535.	15.6	114
11	Chemical Polishing of Perovskite Surface Enhances Photovoltaic Performances. Journal of the American Chemical Society, 2022, 144, 1700-1708.	6.6	88
12	Pinhole-Free Hybrid Perovskite Film with Arbitrarily-Shaped Micro-Patterns for Functional Optoelectronic Devices. Nano Letters, 2017, 17, 3563-3569.	4.5	57
13	Mechanochemistry Advances Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2022, 34, e2107420.	11.1	51
14	Plasma Oxidized Ti₃C₂T_x MXene as Electron Transport Layer for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 32495-32502.	4.0	41
15	Lowâ€Dimensional Contact Layers for Enhanced Perovskite Photodiodes. Advanced Functional Materials, 2020, 30, 2001692.	7.8	30
16	Perovskite hetero-bilayer for efficient charge-transport-layer-free solar cells. Joule, 2022, 6, 1277-1289.	11.7	25
17	Ultralight flexible perovskite solar cells. Science China Materials, 2022, 65, 2319-2324.	3.5	21
18	Defect suppression and energy level alignment in formamidinium-based perovskite solar cells. Journal of Energy Chemistry, 2022, 67, 65-72.	7.1	19

#	Article	IF	Citations
19	Toward an alternative approach for the preparation of low-temperature titanium dioxide blocking underlayers for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 10729-10738.	5.2	13
20	Perovskite Solar Cells: High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18% (Adv. Funct. Mater. 20/2016). Advanced Functional Materials, 2016, 26, 3551-3551.	7.8	6