

Jie Zhong

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46
papers

1,871
citations

21
h-index

43
g-index

49
ext. papers

2,352
ext. citations

10
avg, IF

4.76
L-index

#	Paper	IF	Citations
46	Universal passivation strategy to slot-die printed SnO for hysteresis-free efficient flexible perovskite solar module. <i>Nature Communications</i> , 2018 , 9, 4609	17.4	392
45	A novel quadruple-cation absorber for universal hysteresis elimination for high efficiency and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 2509-2515	35.4	346
44	Synergic Interface Optimization with Green Solvent Engineering in Mixed Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700576	21.8	178
43	Lead halide-templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. <i>Science</i> , 2021 , 372, 1327-1332	33.3	113
42	Effect of the Microstructure of the Functional Layers on the Efficiency of Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1601715	24	80
41	Low-Temperature Presynthesized Crystalline Tin Oxide for Efficient Flexible Perovskite Solar Cells and Modules. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14922-14929	9.5	67
40	Stacking n-type layers: Effective route towards stable, efficient and hysteresis-free planar perovskite solar cells. <i>Nano Energy</i> , 2018 , 44, 34-42	17.1	47
39	Large-area perovskite solar cells with Cs _x FA _{1-x} PbI ₃ Br _y thin films deposited by a vapor-solid reaction method. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21143-21148	13	47
38	Efficient and stable mixed perovskite solar cells using P3HT as a hole transporting layer. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5733-5737	7.1	43
37	Efficient and Stable Inverted Planar Perovskite Solar Cells Using a Triphenylamine Hole-Transporting Material. <i>ChemSusChem</i> , 2018 , 11, 1467-1473	8.3	38
36	Surface modification via self-assembling large cations for improved performance and modulated hysteresis of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6793-6800	13	35
35	High performance perovskite sub-module with sputtered SnO ₂ electron transport layer. <i>Solar Energy</i> , 2019 , 183, 306-314	6.8	30
34	Dynamic Antisolvent Engineering for Spin Coating of 10 × 10 cm ² Perovskite Solar Module Approaching 18%. <i>Solar Rrl</i> , 2020 , 4, 1900263	7.1	30
33	Robust transparent superamphiphobic coatings on non-fabric flat substrates with inorganic adhesive titania bonded silica. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8352-8359	13	28
32	An efficient, flexible perovskite solar module exceeding 8% prepared with an ultrafast PbI deposition rate. <i>Scientific Reports</i> , 2018 , 8, 442	4.9	27
31	Carbon film electrode based square-centimeter scale planar perovskite solar cells exceeding 17% efficiency. <i>Materials Science in Semiconductor Processing</i> , 2020 , 107, 104809	4.3	23
30	Chlorobenzenesulfonic Potassium Salts as the Efficient Multifunctional Passivator for the Buried Interface in Regular Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2200417	21.8	23

29	Organic/inorganic self-doping controlled crystallization and electronic properties of mixed perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6319-6326	13	22
28	Self-augmented ion blocking of sandwiched 2D/1D/2D electrode for solution processed high efficiency semitransparent perovskite solar cell. <i>Nano Energy</i> , 2020 , 71, 104567	17.1	21
27	Humidity controlled sol-gel Zr/TiO ₂ with optimized band alignment for efficient planar perovskite solar cells. <i>Solar Energy</i> , 2016 , 139, 290-296	6.8	21
26	Enhanced Crystallinity of Low-Temperature Solution-Processed SnO for Highly Reproducible Planar Perovskite Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 2898-2903	8.3	21
25	Universal defects elimination for high performance thermally evaporated CsPbBr ₃ perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 206, 110317	6.4	21
24	Structure engineering of hierarchical layered perovskite interface for efficient and stable wide bandgap photovoltaics. <i>Nano Energy</i> , 2020 , 75, 104917	17.1	19
23	Sequentially Reinforced Additive Coating for Transparent and Durable Superhydrophobic Glass. <i>Langmuir</i> , 2018 , 34, 11316-11324	4	19
22	Suppressed hysteresis and enhanced performance of triple cation perovskite solar cell with chlorine incorporation. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13157-13161	7.1	17
21	Influence of phase transition on stability of perovskite solar cells under thermal cycling conditions. <i>Solar Energy</i> , 2019 , 188, 312-317	6.8	13
20	Alleviate the - hysteresis of carbon-based perovskite solar cells introducing additional methylammonium chloride into MAPbI precursor.. <i>RSC Advances</i> , 2018 , 8, 35157-35161	3.7	13
19	Enhancing the thermal stability of the carbon-based perovskite solar cells by using a Cs FA PbBr I light absorber.. <i>RSC Advances</i> , 2019 , 9, 11877-11881	3.7	11
18	Room-temperature synthesized SnO electron transport layers for efficient perovskite solar cells.. <i>RSC Advances</i> , 2019 , 9, 9946-9950	3.7	11
17	Rapid preparation of conductive transparent films via solution printing of graphene precursor. <i>Thin Solid Films</i> , 2018 , 657, 24-31	2.2	11
16	Meso/micro-porosity and phase separation in TiO ₂ /SiO ₂ /C nanocomposites. <i>Microporous and Mesoporous Materials</i> , 2012 , 150, 25-31	5.3	11
15	Enhancing the performance and stability of carbon-based perovskite solar cells by the cold isostatic pressing method. <i>RSC Advances</i> , 2017 , 7, 48958-48961	3.7	10
14	Fabrication of Efficient and Stable Perovskite Solar Cells in High-Humidity Environment through Trace-Doping of Large-Sized Cations. <i>ChemSusChem</i> , 2019 , 12, 2385-2392	8.3	9
13	Sub-sized monovalent alkaline cations enhanced electrical stability for over 17% hysteresis-free planar perovskite solar mini-module. <i>Electrochimica Acta</i> , 2019 , 306, 635-642	6.7	9
12	Formamidinium-Based Perovskite Solar Cells with Enhanced Moisture Stability and Performance via Confined Pressure Annealing. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12249-12258	3.8	9

11	Interface modification effect on the performance of CsFAPbIBr perovskite solar cells fabricated by evaporation/spray-coating method. <i>Journal of Chemical Physics</i> , 2020 , 153, 014706	3.9	9
10	Influence of Hot Spot Heating on Stability of Large Size Perovskite Solar Module with a Power Conversion Efficiency of ~14%. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3565-3570	6.1	9
9	Surfactant-assisted doctor-blading-printed FAPbBr ₃ films for efficient semitransparent perovskite solar cells. <i>Frontiers of Optoelectronics</i> , 2020 , 13, 272-281	2.8	9
8	Improving the intrinsic thermal stability of the MAPbI perovskite by incorporating cesium 5-aminovaleric acetate.. <i>RSC Advances</i> , 2018 , 8, 14991-14994	3.7	6
7	Batch chemical bath deposition of large-area SnO ₂ film with mercaptosuccinic acid decoration for homogenized and efficient perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 425, 131444	14.7	6
6	Room-temperature Sputtered NiO _x for hysteresis-free and stable inverted Cs-FA mixed-cation perovskite solar cells. <i>Materials Science in Semiconductor Processing</i> , 2020 , 115, 105129	4.3	5
5	Interface Passivation Engineering for Hybrid Perovskite Solar Cells. <i>Materials Reports Energy</i> , 2021 , 1, 100060		5
4	Differentiated Functions of Potassium Interface Passivation and Doping on Charge-Carrier Dynamics in Perovskite Solar Cells.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3188-3196	6.4	3
3	A novel dopant for spiro-OMeTAD towards efficient and stable perovskite solar cells. <i>Science China Materials</i> , 1	7.1	2
2	Bandgap adjustment assisted preparation of >18% Cs FA PbI Br -based perovskite solar cells using a hybrid spraying process.. <i>RSC Advances</i> , 2021 , 11, 17595-17602	3.7	2
1	Chlorobenzenesulfonic Potassium Salts as the Efficient Multifunctional Passivator for the Buried Interface in Regular Perovskite Solar Cells (Adv. Energy Mater. 20/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270082	21.8	