Jie Zhong

List of Publications by Year in Descending Order

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	Differentiated Functions of Potassium Interface Passivation and Doping on Charge-Carrier Dynamics in Perovskite Solar Cells.. *Journal of Physical Chemistry Letters*, **2022**, 3188-3196	6.4	3
45	Chlorobenzenesulfonic Potassium Salts as the Efficient Multifunctional Passivator for the Buried Interface in Regular Perovskite Solar Cells (Adv. Energy Mater. 20/2022). *Advanced Energy Materials* , **2022**, 12, 2270082	21.8	
44	Lead halide-templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. *Science*, **2021**, 372, 1327-1332	33.3	113
43	Bandgap adjustment assisted preparation of >18% Cs FA PbI Br -based perovskite solar cells using a hybrid spraying process.. *RSC Advances*, **2021**, 11, 17595-17602	3.7	2
42	Interface Passivation Engineering for Hybrid Perovskite Solar Cells. *Materials Reports Energy*, **2021**, 1, 100060		5
41	Batch chemical bath deposition of large-area SnO2 film with mercaptosuccinic acid decoration for homogenized and efficient perovskite solar cells. *Chemical Engineering Journal*, **2021**, 425, 131444	14.7	6
40	Formamidinium-Based Perovskite Solar Cells with Enhanced Moisture Stability and Performance via Confined Pressure Annealing. *Journal of Physical Chemistry C*, **2020**, 124, 12249-12258	3.8	9
39	Structure engineering of hierarchical layered perovskite interface for efficient and stable wide bandgap photovoltaics. *Nano Energy*, **2020**, 75, 104917	17.1	19
38	Interface modification effect on the performance of CsFAPbIBr perovskite solar cells fabricated by evaporation/spray-coating method. *Journal of Chemical Physics*, **2020**, 153, 014706	3.9	9
37	Self-augmented ion blocking of sandwiched 2D/1D/2D electrode for solution processed high efficiency semitransparent perovskite solar cell. *Nano Energy*, **2020**, 71, 104567	17.1	21
36	Room-temperature Sputtered NiOx for hysteresis-free and stable inverted Cs-FA mixed-cation perovskite solar cells. *Materials Science in Semiconductor Processing*, **2020**, 115, 105129	4.3	5
35	Carbon film electrode based square-centimeter scale planar perovskite solar cells exceeding 17% efficiency. *Materials Science in Semiconductor Processing*, **2020**, 107, 104809	4.3	23
34	Universal defects elimination for high performance thermally evaporated CsPbBr3 perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2020**, 206, 110317	6.4	21
33	Surfactant-assisted doctor-blading-printed FAPbBr3 films for efficient semitransparent perovskite solar cells. *Frontiers of Optoelectronics*, **2020**, 13, 272-281	2.8	9
32	Dynamic Antisolvent Engineering for Spin Coating of 10 □10 cm2 Perovskite Solar Module Approaching 18%. *Solar Rrl*, **2020**, 4, 1900263	7.1	30
31	Influence of phase transition on stability of perovskite solar cells under thermal cycling conditions. *Solar Energy*, **2019**, 188, 312-317	6.8	13
30	Enhancing the thermal stability of the carbon-based perovskite solar cells by using a Cs FA PbBr I light absorber.. *RSC Advances*, **2019**, 9, 11877-11881	3.7	11

29	High performance perovskite sub-module with sputtered SnO2 electron transport layer. *Solar Energy*, **2019**, 183, 306-314	6.8	30
28	Fabrication of Efficient and Stable Perovskite Solar Cells in High-Humidity Environment through Trace-Doping of Large-Sized Cations. *ChemSusChem*, **2019**, 12, 2385-2392	8.3	9
27	Sub-sized monovalent alkaline cations enhanced electrical stability for over 17% hysteresis-free planar perovskite solar mini-module. *Electrochimica Acta*, **2019**, 306, 635-642	6.7	9
26	Room-temperature synthesized SnO electron transport layers for efficient perovskite solar cells.. *RSC Advances*, **2019**, 9, 9946-9950	3.7	11
25	Surface modification via self-assembling large cations for improved performance and modulated hysteresis of perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 6793-6800	13	35
24	Organic/inorganic self-doping controlled crystallization and electronic properties of mixed perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 6319-6326	13	22
23	Improving the intrinsic thermal stability of the MAPbI perovskite by incorporating cesium 5-aminovaleric acetate.. *RSC Advances*, **2018**, 8, 14991-14994	3.7	6
22	Efficient and Stable Inverted Planar Perovskite Solar Cells Using a Triphenylamine Hole-Transporting Material. *ChemSusChem*, **2018**, 11, 1467-1473	8.3	38
21	Low-Temperature Presynthesized Crystalline Tin Oxide for Efficient Flexible Perovskite Solar Cells and Modules. *ACS Applied Materials & Interfaces*, **2018**, 10, 14922-14929	9.5	67
20	An efficient, flexible perovskite solar module exceeding 8% prepared with an ultrafast PbI deposition rate. *Scientific Reports*, **2018**, 8, 442	4.9	27
19	Influence of Hot Spot Heating on Stability of Large Size Perovskite Solar Module with a Power Conversion Efficiency of ~14%. *ACS Applied Energy Materials*, **2018**, 1, 3565-3570	6.1	9
18	Enhanced Crystallinity of Low-Temperature Solution-Processed SnO for Highly Reproducible Planar Perovskite Solar Cells. *ChemSusChem*, **2018**, 11, 2898-2903	8.3	21
17	Rapid preparation of conductive transparent films via solution printing of graphene precursor. *Thin Solid Films*, **2018**, 657, 24-31	2.2	11
16	Efficient and stable mixed perovskite solar cells using P3HT as a hole transporting layer. *Journal of Materials Chemistry C*, **2018**, 6, 5733-5737	7.1	43
15	Stacking n-type layers: Effective route towards stable, efficient and hysteresis-free planar perovskite solar cells. *Nano Energy*, **2018**, 44, 34-42	17.1	47
14	Alleviate the - hysteresis of carbon-based perovskite solar cells introducing additional methylammonium chloride into MAPbI precursor.. *RSC Advances*, **2018**, 8, 35157-35161	3.7	13
13	Suppressed hysteresis and enhanced performance of triple cation perovskite solar cell with chlorine incorporation. *Journal of Materials Chemistry C*, **2018**, 6, 13157-13161	7.1	17
12	Large-area perovskite solar cells with CsxFA1�xPbI3�yBry thin films deposited by a vapor�solid reaction method. *Journal of Materials Chemistry A*, **2018**, 6, 21143-21148	13	47

11	Universal passivation strategy to slot-die printed SnO for hysteresis-free efficient flexible perovskite solar module. *Nature Communications*, **2018**, 9, 4609	17.4	392
10	Sequentially Reinforced Additive Coating for Transparent and Durable Superhydrophobic Glass. *Langmuir*, **2018**, 34, 11316-11324	4	19
9	Effect of the Microstructure of the Functional Layers on the Efficiency of Perovskite Solar Cells. *Advanced Materials*, **2017**, 29, 1601715	24	80
8	Robust transparent superamphiphobic coatings on non-fabric flat substrates with inorganic adhesive titania bonded silica. *Journal of Materials Chemistry A*, **2017**, 5, 8352-8359	13	28
7	A novel quadruple-cation absorber for universal hysteresis elimination for high efficiency and stable perovskite solar cells. *Energy and Environmental Science*, **2017**, 10, 2509-2515	35.4	346
6	Enhancing the performance and stability of carbon-based perovskite solar cells by the cold isostatic pressing method. *RSC Advances*, **2017**, 7, 48958-48961	3.7	10
5	Synergic Interface Optimization with Green Solvent Engineering in Mixed Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700576	21.8	178
4	Humidity controlled sol-gel Zr/TiO2 with optimized band alignment for efficient planar perovskite solar cells. *Solar Energy*, **2016**, 139, 290-296	6.8	21
3	Meso/micro-porosity and phase separation in TiO2/SiO2/C nanocomposites. *Microporous and Mesoporous Materials*, **2012**, 150, 25-31	5.3	11
2	A novel dopant for spiro-OMeTAD towards efficient and stable perovskite solar cells. *Science China Materials*,1	7.1	2
1	Chlorobenzenesulfonic Potassium Salts as the Efficient Multifunctional Passivator for the Buried Interface in Regular Perovskite Solar Cells. *Advanced Energy Materials*,2200417	21.8	23