## Changlei Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Back Interface Passivation for Efficient Low-Bandgap Perovskite Solar Cells and Photodetectors. Nanomaterials, 2022, 12, 2065.	4.1	3
2	Low Band Gap Perovskite Concentrator Solar Cells: Physics, Device Simulation, and Experiment. ACS Applied Materials & Interfaces, 2022, 14, 29856-29866.	8.0	1
3	Synergistic engineering of bromine and cetyltrimethylammonium chloride molecules enabling efficient and stable flexible perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 19425-19433.	10.3	9
4	Heterojunction Perovskite Solar Cells: Opto-Electro-Thermal Physics, Modeling, and Experiment. ACS Nano, 2020, 14, 5017-5026.	14.6	40
5	Two dimensional graphitic carbon nitride quantum dots modified perovskite solar cells and photodetectors with high performances. Journal of Power Sources, 2020, 451, 227825.	7.8	44
6	Highly efficient and stable air-processed hole-transport-material free carbon based perovskite solar cells with caesium incorporation. Chemical Communications, 2019, 55, 218-221.	4.1	19
7	A Cu <sub>3</sub> PS <sub>4</sub> nanoparticle hole selective layer for efficient inverted perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 4604-4610.	10.3	29
8	Improving Performance and Stability of Planar Perovskite Solar Cells through Grain Boundary Passivation with Block Copolymers. Solar Rrl, 2019, 3, 1900078.	5.8	40
9	Lowâ€Bandgap Mixed Tin‣ead Perovskites and Their Applications in Allâ€Perovskite Tandem Solar Cells. Advanced Functional Materials, 2019, 29, 1808801.	14.9	133
10	Atmospherically induced defects in (FASnI <sub>3</sub> ) <sub>0.6</sub> (MAPbI <sub>3â^3<i>x</i>) Tj ETQq0 175102.</sub>	0 0 rgBT /0 2.8	Overlock 10 T 7
11	Fully Airâ€Processed Carbonâ€Based Efficient Hole Conductor Free Planar Heterojunction Perovskite Solar Cells With High Reproducibility and Stability. Solar Rrl, 2019, 3, 1800297.	5.8	20
12	Reducing Saturationâ€Current Density to Realize Highâ€Efficiency Lowâ€Bandgap Mixed Tin–Lead Halide Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803135.	19.5	255
13	A New Hole Transport Material for Efficient Perovskite Solar Cells With Reduced Device Cost. Solar Rrl, 2018, 2, 1700175.	5.8	31
14	Four-Terminal All-Perovskite Tandem Solar Cells Achieving Power Conversion Efficiencies Exceeding 23%. ACS Energy Letters, 2018, 3, 305-306.	17.4	219
15	Double Coating for the Enhancement of the Performance in a MA <sub>0.7</sub> FA <sub>0.3</sub> PbBr <sub>3</sub> Photodetector. ACS Photonics, 2018, 5, 2100-2105.	6.6	9
16	Efficient two-terminal all-perovskite tandem solar cells enabled by high-quality low-bandgap absorber layers. Nature Energy, 2018, 3, 1093-1100.	39.5	422
17	Optical Hall Effect of PV Device Materials. IEEE Journal of Photovoltaics, 2018, 8, 1793-1799.	2.5	12
18	Metal–Organic Framework-Derived CoWP@C Composite Nanowire Electrocatalyst for Efficient Water Splitting. ACS Energy Letters, 2018, 3, 1434-1442.	17.4	141

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19	Synergistic effects of thiocyanate additive and cesium cations on improving the performance and initial illumination stability of efficient perovskite solar cells. Sustainable Energy and Fuels, 2018, 2, 2435-2441.	4.9	27
20	Probing the origins of photodegradation in organic–inorganic metal halide perovskites with time-resolved mass spectrometry. Sustainable Energy and Fuels, 2018, 2, 2460-2467.	4.9	84
21	Hydrothermal synthesis of TiO <sub>2</sub> nanoparticles doped with trace amounts of strontium, and their application as working electrodes for dye sensitized solar cells: tunable electrical properties & enhanced photo-conversion performance. RSC Advances, 2017, 7, 2358-2364.	3.6	40
22	Low-bandgap mixed tin–lead iodide perovskite absorbers with long carrier lifetimes for all-perovskite tandem solar cells. Nature Energy, 2017, 2, .	39.5	634
23	Understanding and Eliminating Hysteresis for Highly Efficient Planar Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700414.	19.5	190
24	Synergistic Effects of Lead Thiocyanate Additive and Solvent Annealing on the Performance of Wide-Bandgap Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 1177-1182.	17.4	190
25	Compositional and morphological engineering of mixed cation perovskite films for highly efficient planar and flexible solar cells with reduced hysteresis. Nano Energy, 2017, 35, 223-232.	16.0	162
26	A layered Na <sub>1â^'x</sub> Ni <sub>y</sub> Fe <sub>1â^'y</sub> O <sub>2</sub> double oxide oxygen evolution reaction electrocatalyst for highly efficient water-splitting. Energy and Environmental Science, 2017, 10, 121-128.	30.8	201
27	Interface engineering in planar perovskite solar cells: energy level alignment, perovskite morphology control and high performance achievement. Journal of Materials Chemistry A, 2017, 5, 1658-1666.	10.3	364
28	Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. Journal of Materials Chemistry A, 2017, 5, 23319-23327.	10.3	40
29	Water Vapor Treatment of Low-Temperature Deposited SnO <sub>2</sub> Electron Selective Layers for Efficient Flexible Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2118-2124.	17.4	161
30	Highly Sensitive Lowâ€Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Nearâ€Infrared Region. Advanced Functional Materials, 2017, 27, 1703953.	14.9	148
31	Tracking the maximum power point of hysteretic perovskite solar cells using a predictive algorithm. Journal of Materials Chemistry C, 2017, 5, 10152-10157.	5.5	18
32	One-step facile synthesis of a simple carbazole-cored hole transport material for high-performance perovskite solar cells. Nano Energy, 2017, 40, 163-169.	16.0	89
33	Low-temperature plasma-enhanced atomic layer deposition of tin oxide electron selective layers for highly efficient planar perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 12080-12087.	10.3	210
34	Stable Organic–Inorganic Perovskite Solar Cells without Hole onductor Layer Achieved via Cell Structure Design and Contact Engineering. Advanced Functional Materials, 2016, 26, 4866-4873.	14.9	84
35	One-pot stirring-free synthesis of silver nanowires with tunable lengths and diameters via a Fe <sup>3+</sup> & Cl <sup>â^'</sup> co-mediated polyol method and their application as transparent conductive films. Nanoscale, 2016, 8, 18121-18133.	5.6	66
36	Leadâ€Free Inverted Planar Formamidinium Tin Triiodide Perovskite Solar Cells Achieving Power Conversion Efficiencies up to 6.22%. Advanced Materials, 2016, 28, 9333-9340.	21.0	636

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37	Cooperative tin oxide fullerene electron selective layers for high-performance planar perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 14276-14283.	10.3	204
38	Thermally evaporated methylammonium tin triiodide thin films for lead-free perovskite solar cell fabrication. RSC Advances, 2016, 6, 90248-90254.	3.6	114
39	Fabrication of Efficient Low-Bandgap Perovskite Solar Cells by Combining Formamidinium Tin Iodide with Methylammonium Lead Iodide. Journal of the American Chemical Society, 2016, 138, 12360-12363.	13.7	362
40	Improving the Performance of Formamidinium and Cesium Lead Triiodide Perovskite Solar Cells using Lead Thiocyanate Additives. ChemSusChem, 2016, 9, 3288-3297.	6.8	178
41	Employing Lead Thiocyanate Additive to Reduce the Hysteresis and Boost the Fill Factor of Planar Perovskite Solar Cells. Advanced Materials, 2016, 28, 5214-5221.	21.0	487
42	Photovoltaic Properties of Two-Dimensional (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> Pb(SCN) <sub>2</sub> I <sub>2</sub> Perovskite: A Combined Experimental and Density Functional Theory Study. Journal of Physical Chemistry Letters, 2016, 7, 1213-1218.	4.6	135
43	A composite nanostructured electron-transport layer for stable hole-conductor free perovskite solar cells: design and characterization. Nanoscale, 2016, 8, 5847-5851.	5.6	25
44	A novel glowing electrolyte based on perylene accompany with spectrum compensation function for efficient dye sensitized solar cells. Journal of Power Sources, 2015, 280, 430-434.	7.8	8
45	Multifunctional alumina/titania hybrid blocking layer modified nanocrystalline titania films as efficient photoanodes in dye sensitized solar cells. Journal of Power Sources, 2015, 282, 596-601.	7.8	38
46	Efficient dye-sensitized solar cells employing highly environmentally-friendly ubiquinone 10 based I2-free electrolyte inspired by photosynthesis. Journal of Materials Chemistry A, 2014, 2, 9007-9010.	10.3	14
47	Efficient Electron Transport Scaffold Made up of Submicron TiO <sub>2</sub> Spheres for High-Performance Hole-Transport Material Free Perovskite Solar Cells. ACS Applied Energy Materials, 0, , .	5.1	13
48	Managing Lead Leakage in Efficient Perovskite Solar Cells with Phosphate Interlayers. Advanced Materials Interfaces, 0, , 2200570.	3.7	9