Shaohang Wu

List of Publications by Year
in descending order

31 papers	1,730 citations	361413 20 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	2403 citing authors

#	Article	IF	Citations
1	A chemically inert bismuth interlayer enhances long-term stability of inverted perovskite solar cells. Nature Communications, 2019, 10, 1161.	12.8	225
2	Slot-die coating large-area formamidinium-cesium perovskite film for efficient and stable parallel solar module. Science Advances, 2021, 7, .	10.3	165
3	Solvent engineering for efficient inverted perovskite solar cells based on inorganic CsPbI2Br light absorber. Materials Today Energy, 2018, 8, 125-133.	4.7	121
4	Review on Practical Interface Engineering of Perovskite Solar Cells: From Efficiency to Stability. Solar Rrl, 2020, 4, 1900257.	5.8	119
5	Effect of BCP buffer layer on eliminating charge accumulation for high performance of inverted perovskite solar cells. RSC Advances, 2017, 7, 35819-35826.	3.6	115
6	[6,6]-Phenyl-C₆₁-Butyric Acid Methyl Ester/Cerium Oxide Bilayer Structure as Efficient and Stable Electron Transport Layer for Inverted Perovskite Solar Cells. ACS Nano, 2018, 12, 2403-2414.	14.6	114
7	Fabrication Strategy for Efficient 2D/3D Perovskite Solar Cells Enabled by Diffusion Passivation and Strain Compensation. Advanced Energy Materials, 2020, 10, 2002004.	19.5	97
8	Tailoring C₆₀ for Efficient Inorganic CsPbI₂Br Perovskite Solar Cells and Modules. Advanced Materials, 2020, 32, e1907361.	21.0	88
9	Rational Interface Design and Morphology Control for Bladeâ€Coating Efficient Flexible Perovskite Solar Cells with a Record Fill Factor of 81%. Advanced Functional Materials, 2020, 30, 2001240.	14.9	77
10	CaI₂: a more effective passivator of perovskite films than PbI₂ for high efficiency and long-term stability of perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 7903-7912.	10.3	69
11	Cation-size mismatch and interface stabilization for efficient NiOx-based inverted perovskite solar cells with 21.9% efficiency. Nano Energy, 2021, 88, 106285.	16.0	66
12	Inorganic hole transport layers in inverted perovskite solar cells: A review. Nano Select, 2021, 2, 1081-1116.	3.7	65
13	Bifunctional Molecular Modification Improving Efficiency and Stability of Inverted Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800645.	3.7	43
14	Overcoming photovoltage deficit<i>via</i>natural amino acid passivation for efficient perovskite solar cells and modules. Journal of Materials Chemistry A, 2021, 9, 5857-5865.	10.3	43
15	Facile surface modification of CH₃NH₃PbI₃ films leading to simultaneously improved efficiency and stability of inverted perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 6255-6264.	10.3	34
16	A general strategy to prepare high-quality inorganic charge-transporting layers for efficient and stable all-layer-inorganic perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 18603-18611.	10.3	31
17	Two dimensional directed Ï€â€“Ï€ interactions in a linear shaped bi-1,3,4-oxadiazole derivative to achieve organic single crystal with highly polarized fluorescence and amplified spontaneous emissions. Journal of Materials Chemistry, 2012, 22, 24605.	6.7	30
18	A Tailored Nickel Oxide Holeâ€Transporting Layer to Improve the Longâ€Term Thermal Stability of Inorganic Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900346.	5.8	30

#	ARTICLE	IF	CITATIONS
19	Efficient Methylamine-Containing Antisolvent Strategy to Fabricate High-Efficiency and Stable FA_{0.85}Cs_{0.15}Pb(Br_{0.15}I_{2.85}) Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 18415-18422.	8.0	30
20	Hybrid Inorganic Electron-Transporting Layer Coupled with a Halogen-Resistant Electrode in CsPbI₂Br-Based Perovskite Solar Cells to Achieve Robust Long-Term Stability. ACS Applied Materials & Interfaces, 2019, 11, 43303-43311.	8.0	25
21	Improved open-circuit voltage and ambient stability of CsPbI2Br perovskite solar cells by incorporating CH3NH3Cl. Rare Metals, 2020, 39, 131-138.	7.1	23
22	Formamidine-assisted fast crystallization to fabricate formamidinium-based perovskite films for high-efficiency and stable solar cells. Journal of Materials Chemistry C, 2020, 8, 1642-1648.	5.5	20
23	An effective surface modification strategy with high reproducibility for simultaneously improving efficiency and stability of inverted MA-free perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 21476-21487.	10.3	18
24	Controlling Orientation Diversity of Mixed Ion Perovskites: Reduced Crystal Microstrain and Improved Structural Stability. Journal of Physical Chemistry Letters, 2019, 10, 2898-2903.	4.6	18
25	Sea coral-like NiCo₂O₄@(Ni, Co)OOH heterojunctions for enhancing overall water-splitting. Catalysis Science and Technology, 2018, 8, 4151-4158.	4.1	16
26	Adverse oxidation of CsPbI₂Br perovskite during the crystallization process in an N₂ glove-box. Journal of Materials Chemistry C, 2019, 7, 5067-5073.	5.5	14
27	Pr and F co-doped SnO_2 transparent conductive films with high work function deposited by ion-assisted electron beam evaporation. Optics Express, 2014, 22, 4731.	3.4	13
28	Hexagonal-Tiled Indium Tin Oxide Electrodes To Enhance Light Trapping in Perovskite Solar Cells. ACS Applied Nano Materials, 2018, 1, 6159-6167.	5.0	9
29	Interfacial engineering with carbonâ€“graphiteâ€“Cu_{Î´}Ni_{1â^’Î´}O for ambient-air stable composite-based hole-conductor-free perovskite solar cells. Nanoscale Advances, 2020, 2, 5883-5889.	4.6	8
30	Spontaneous formation of a large area, aligned, ordered, Ï€-conjugated film with polarized fluorescence and an amplified spontaneous emission based on a liquid crystalline bi-1,3,4-oxadiazole derivative. RSC Advances, 2013, 3, 19104.	3.6	3
31	Electrical properties of zinc-oxide-based thin-film transistors using strontium-oxide-doped semiconductors. Chinese Physics B, 2015, 24, 108504.	1.4	1