Shaohang Wu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8340744/publications.pdf

Version: 2024-02-01

31 papers	1,730 citations	361045 20 h-index	433756 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.	5.8	225
2	Slot-die coating large-area formamidinium-cesium perovskite film for efficient and stable parallel solar module. Science Advances, 2021, 7, .	4.7	165
3	Solvent engineering for efficient inverted perovskite solar cells based on inorganic CsPbI2Br light absorber. Materials Today Energy, 2018, 8, 125-133.	2.5	121
4	Review on Practical Interface Engineering of Perovskite Solar Cells: From Efficiency to Stability. Solar Rrl, 2020, 4, 1900257.	3.1	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.	1.7	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.	7.3	114
7	Fabrication Strategy for Efficient 2D/3D Perovskite Solar Cells Enabled by Diffusion Passivation and Strain Compensation. Advanced Energy Materials, 2020, 10, 2002004.	10.2	97
8	Tailoring C₆₀ for Efficient Inorganic CsPbI₂Br Perovskite Solar Cells and Modules. Advanced Materials, 2020, 32, e1907361.	11.1	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.	7.8	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.	5.2	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.	8.2	66
12	Inorganic hole transport layers in inverted perovskite solar cells: A review. Nano Select, 2021, 2, 1081-1116.	1.9	65
13	Bifunctional Molecular Modification Improving Efficiency and Stability of Inverted Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800645.	1.9	43
14	Overcoming photovoltage deficitvianatural amino acid passivation for efficient perovskite solar cells and modules. Journal of Materials Chemistry A, 2021, 9, 5857-5865.	5.2	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.	5.2	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.	5.2	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.	3.1	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.	4.0	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.	4.0	25
21	Improved open-circuit voltage and ambient stability of CsPbI2Br perovskite solar cells by incorporating CH3NH3Cl. Rare Metals, 2020, 39, 131-138.	3.6	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.	2.7	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.	5.2	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.	2.1	18
25	Sea coral-like NiCo₂O₄@(Ni, Co)OOH heterojunctions for enhancing overall water-splitting. Catalysis Science and Technology, 2018, 8, 4151-4158.	2.1	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.	2.7	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.	1.7	13
28	Hexagonal-Tiled Indium Tin Oxide Electrodes To Enhance Light Trapping in Perovskite Solar Cells. ACS Applied Nano Materials, 2018, 1, 6159-6167.	2.4	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.	2.2	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.	1.7	3
31	Electrical properties of zinc-oxide-based thin-film transistors using strontium-oxide-doped semiconductors. Chinese Physics B, 2015, 24, 108504.	0.7	1