Hongwei Zhu

List of Publications by Year
in descending order

25 papers	1,573 citations	586496 16 h-index	685536 24 g-index
25 all docs	25 docs citations	25 times ranked	2428 citing authors

#	Article	IF	Citations
1	Bifunctional spiro-fluorene/heterocycle cored hole-transporting materials: Role of the heteroatom on the photovoltaic performance of perovskite solar cells. Chemical Engineering Journal, 2022, 431, 133371.	6.6	11
2	Interface modification to achieve high-efficiency and stable perovskite solar cells. Chemical Engineering Journal, 2022, 433, 134613.	6.6	30
3	CNT-based bifacial perovskite solar cells toward highly efficient 4-terminal tandem photovoltaics. Energy and Environmental Science, 2022, 15, 1536-1544.	15.6	39
4	Efficient and Stable Large Bandgap MAPbBr₃ Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. ACS Energy Letters, 2022, 7, 1112-1119.	8.8	21
5	Realizing Highâ€Efficiency Perovskite Solar Cells by Passivating Tripleâ€Cation Perovskite Films. Solar Rrl, 2022, 6, .	3.1	9
6	Hydrazinium cation mixed FAPbI3-based perovskite with 1D/3D hybrid dimension structure for efficient and stable solar cells. Chemical Engineering Journal, 2021, 403, 125724.	6.6	33
7	Low-Cost Dopant Additive-Free Hole-Transporting Material for a Robust Perovskite Solar Cell with Efficiency Exceeding 21%. ACS Energy Letters, 2021, 6, 208-215.	8.8	67
8	Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24%. Journal of the American Chemical Society, 2021, 143, 3231-3237.	6.6	152
9	Cyclopentadieneâ€Based Holeâ€Transport Material for Costâ€Reduced Stabilized Perovskite Solar Cells with Power Conversion Efficiencies Over 23%. Advanced Energy Materials, 2021, 11, 2003953.	10.2	24
10	Methylamine Gas Treatment Affords Improving Semitransparency, Efficiency, and Stability of CH₃NH₃PbBr₃â€Based Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100277.	3.1	11
11	Combined Precursor Engineering and Grain Anchoring Leading to MAâ€Free, Phaseâ€Pure, and Stable Î±â€Formamidinium Lead Iodide Perovskites for Efficient Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 27299-27306.	7.2	46
12	Ti1â€“graphene single-atom material for improved energy level alignment in perovskite solar cells. Nature Energy, 2021, 6, 1154-1163.	19.8	72
13	Simple 9,10-dihydrophenanthrene based hole-transporting materials for efficient perovskite solar cells. Chemical Engineering Journal, 2020, 402, 126298.	6.6	12
14	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie - International Edition, 2020, 59, 15688-15694.	7.2	201
15	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie, 2020, 132, 15818-15824.	1.6	17
16	Impact of peripheral groups on novel asymmetric phthalocyanine-based hole-transporting materials for perovskite solar cells. Dyes and Pigments, 2020, 177, 108301.	2.0	8
17	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. Advanced Materials, 2020, 32, e1907757.	11.1	303
18	A low-cost thiophene-based hole transport material for efficient and stable perovskite solar cells. Organic Electronics, 2019, 71, 194-198.	1.4	10

#	Article	IF	Citations
19	Synthesis of a carbazole-substituted diphenylethylene hole transporting material and application in perovskite solar cells. IOP Conference Series: Materials Science and Engineering, 2019, 556, 012022.	0.3	1
20	Boosting the performance and stability of perovskite solar cells with phthalocyanine-based dopant-free hole transporting materials through core metal and peripheral groups engineering. Organic Electronics, 2019, 64, 71-78.	1.4	24
21	Suppressing defects through thiadiazole derivatives that modulate CH₃NH₃PbI₃ crystal growth for highly stable perovskite solar cells under dark conditions. Journal of Materials Chemistry A, 2018, 6, 4971-4980.	5.2	95
22	Impact of Peripheral Groups on Phenothiazine-Based Hole-Transporting Materials for Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 1145-1152.	8.8	125
23	Dopantâ€Free Holeâ€Transport Material with a Tetraphenylethene Core for Efficient Perovskite Solar Cells. Energy Technology, 2017, 5, 1257-1264.	1.8	19
24	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. Nano Energy, 2017, 41, 469-475.	8.2	232
25	Combined precursor engineering and grain anchoring leading to MAâ€free, phaseâ€pure and stable Î±â€formamidinium lead iodide perovskites for efficient solar cells. Angewandte Chemie, 0, , .	1.6	11