Bin Ding

List of Publications by Year
in descending order

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27 papers	1,299 citations	471509 17 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	1757 citing authors

#	Article	IF	Citations
1	Material nucleation/growth competition tuning towards highly reproducible planar perovskite solar cells with efficiency exceeding 20%. Journal of Materials Chemistry A, 2017, 5, 6840-6848.	10.3	149
2	Highly stable carbon-based perovskite solar cell with a record efficiency of over 18% via hole transport engineering. Journal of Materials Science and Technology, 2019, 35, 987-993.	10.7	123
3	Single-crystalline TiO2 nanoparticles for stable and efficient perovskite modules. Nature Nanotechnology, 2022, 17, 598-605.	31.5	121
4	Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. Nature Communications, 2021, 12, 6394.	12.8	98
5	Facile and Scalable Fabrication of Highly Efficient Lead Iodide Perovskite Thin-Film Solar Cells in Air Using Gas Pump Method. ACS Applied Materials & Interfaces, 2016, 8, 20067-20073.	8.0	88
6	Preparation of flexible perovskite solar cells by a gas pump drying method on a plastic substrate. Journal of Materials Chemistry A, 2016, 4, 3704-3710.	10.3	87
7	Low-temperature SnO₂-modified TiO₂ yields record efficiency for normal planar perovskite solar modules. Journal of Materials Chemistry A, 2018, 6, 10233-10242.	10.3	75
8	(C₆H₅CH₂NH₃)₂CuBr₄: A Lead-Free, Highly Stable Two-Dimensional Perovskite for Solar Cell Applications. ACS Applied Energy Materials, 2018, 1, 2709-2716.	5.1	73
9	Ultra-high open-circuit voltage of perovskite solar cells induced by nucleation thermodynamics on rough substrates. Scientific Reports, 2017, 7, 46141.	3.3	71
10	Excellent Stability of Perovskite Solar Cells by Passivation Engineering. Solar Rrl, 2018, 2, 1800088.	5.8	61
11	Cost effective perovskite solar cells with a high efficiency and open-circuit voltage based on a perovskite-friendly carbon electrode. Journal of Materials Chemistry A, 2018, 6, 8271-8279.	10.3	57
12	Dopantâ€Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. Angewandte Chemie - International Edition, 2021, 60, 20489-20497.	13.8	56
13	Fast Drying Boosted Performance Improvement of Low-Temperature Paintable Carbon-Based Perovskite Solar Cell. ACS Sustainable Chemistry and Engineering, 2017, 5, 9758-9765.	6.7	35
14	(C₆H₅NH₃)BiI₄: a lead-free perovskite with >330 days humidity stability for optoelectronic applications. Journal of Materials Chemistry A, 2019, 7, 15722-15730.	10.3	33
15	Greatly enhanced power conversion efficiency of hole-transport-layer-free perovskite solar cell via coherent interfaces of perovskite and carbon layers. Nano Energy, 2020, 77, 105110.	16.0	31
16	Green Solution-Processed Tin-Based Perovskite Films for Lead-Free Planar Photovoltaic Devices. ACS Applied Materials & Interfaces, 2019, 11, 3053-3060.	8.0	27
17	Engineering long-term stability into perovskite solar cells via application of a multi-functional TFSI-based ionic liquid. Cell Reports Physical Science, 2021, 2, 100475.	5.6	25
18	Realizing full coverage of perovskite film on substrate surface during solution processing: Characterization and elimination of uncovered surface. Journal of Power Sources, 2016, 320, 204-211.	7.8	18

#	Article	IF	Citations
19	Expanded Phase Distribution in Low Average Layerâ€Number 2D Perovskite Films: Toward Efficient Semitransparent Solar Cells. Advanced Functional Materials, 2021, 31, 2104868.	14.9	17
20	Mixed cation 2D perovskite: a novel approach for enhanced perovskite solar cell stability. Sustainable Energy and Fuels, 2022, 6, 2471-2477.	4.9	9
21	Halide exchange in the passivation of perovskite solar cells with functionalized ionic liquids. Cell Reports Physical Science, 2022, 3, 100848.	5.6	9
22	Triarylamine-Functionalized Imidazolyl-Capped Bithiophene Hole Transporting Material for Cost-Effective Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 22053-22060.	8.0	8
23	Cut from the Same Cloth: Enamine-Derived Spirobifluorenes as Hole Transporters for Perovskite Solar Cells. Chemistry of Materials, 2021, 33, 6059-6067.	6.7	7
24	Anion Exchangeâ€Induced Crystal Engineering via Hotâ€Pressing Sublimation Affording Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000729.	5.8	6
25	Dopantâ€Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. Angewandte Chemie, 2021, 133, 20652-20660.	2.0	6
26	Molecular Engineering of Thienyl Functionalized Ullazines as Holeâ€Transporting Materials for Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	5
27	Interfacial and compositional Engineering to Afford Efficient and Stable Perovskite Solar Cells and Modules. , 0, , .		0