

Hao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

4,300
citations

331259

21
h-index

552369

26
g-index

26
all docs

26
docs citations

26
times ranked

4554
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Design of Benzodithiophene-Based Organic Photovoltaic Materials. <i>Chemical Reviews</i> , 2016, 116, 7397-7457.	23.0	998
2	Design, Synthesis, and Photovoltaic Characterization of a Small Molecular Acceptor with an Ultra-Narrow Band Gap. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3045-3049.	7.2	711
3	Over 14% Efficiency in Organic Solar Cells Enabled by Chlorinated Nonfullerene Small-Molecule Acceptors. <i>Advanced Materials</i> , 2018, 30, e1800613.	11.1	623
4	Polymer-Passivated Inorganic Cesium Lead Mixed-Halide Perovskites for Stable and Efficient Solar Cells with High Open-Circuit Voltage over 1.3 V. <i>Advanced Materials</i> , 2018, 30, 1705393.	11.1	401
5	Achieving Highly Efficient Nonfullerene Organic Solar Cells with Improved Intermolecular Interaction and Open-Circuit Voltage. <i>Advanced Materials</i> , 2017, 29, 1700254.	11.1	363
6	Inorganic CsPb ₂ Br Perovskite Solar Cells: The Progress and Perspective. <i>Solar Rrl</i> , 2019, 3, 1800239.	3.1	217
7	Critical Role of Molecular Electrostatic Potential on Charge Generation in Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018, 36, 491-494.	2.6	163
8	Improved Domain Size and Purity Enables Efficient All-Small-Molecule Ternary Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1703777.	11.1	94
9	Fullerene-free polymer solar cell based on a polythiophene derivative with an unprecedented energy loss of less than 0.5 eV. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18043-18049.	5.2	88
10	A Wide Bandgap Polymer with Strong π - π Interaction for Efficient Fullerene-Free Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600742.	10.2	76
11	Engineering the Photoluminescence of CsPbX ₃ (X = Cl, Br, and I) Perovskite Nanocrystals Across the Full Visible Spectra with the Interval of 1 nm. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14256-14265.	4.0	66
12	Recent advances in non-noble metal-based bifunctional electrocatalysts for overall seawater splitting. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166113.	2.8	66
13	Pd Ion-Exchange and Ammonia Etching of a Prussian Blue Analogue to Produce a High-Performance Water-Splitting Catalyst. <i>Advanced Functional Materials</i> , 2021, 31, 2008989.	7.8	65
14	Design, Synthesis, and Photovoltaic Characterization of a Small Molecular Acceptor with an Ultra-Narrow Band Gap. <i>Angewandte Chemie</i> , 2017, 129, 3091-3095.	1.6	61
15	Anodic Transformation of a Core-Shell Prussian Blue Analogue to a Bifunctional Electrocatalyst for Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2106835.	7.8	47
16	Potential of Nonfullerene Small Molecules with High Photovoltaic Performance. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2160-2171.	1.7	45
17	Modulating the molecular packing and distribution enables fullerene-free ternary organic solar cells with high efficiency and long shelf-life. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20139-20150.	5.2	38
18	Enhanced charge separation and photocatalytic hydrogen evolution in carbonized-polymer-dot-coupled lead halide perovskites. <i>Materials Horizons</i> , 2020, 7, 2719-2725.	6.4	38

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19	A Self-Reconstructed Bifunctional Electrocatalyst of Pseudo-Amorphous Nickel Carbide @ Iron Oxide Network for Seawater Splitting. <i>Advanced Science</i> , 2022, 9, e2200146.	5.6	35
20	Unravelling the synergy of oxygen vacancies and gold nanostars in hematite for the electrochemical and photoelectrochemical oxygen evolution reaction. <i>Nano Energy</i> , 2022, 94, 106968.	8.2	33
21	Aqueous-Processed Polymer/Nanocrystals Hybrid Solar Cells: The Effects of Chlorine on the Synthesis of CdTe Nanocrystals, Crystal Growth, Defect Passivation, Photocurrent Dynamics, and Device Performance. <i>Solar Rrl</i> , 2017, 1, 1600020.	3.1	24
22	Using Metal Cation to Control the Microstructure of Cobalt Oxide in Energy Conversion and Storage Applications. <i>Small</i> , 2022, 18, e2106391.	5.2	14
23	Ideal alloys of two donor isomers with non-covalently conformational locking for ternary organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7519-7526.	2.7	11
24	Non-fullerene acceptors for large-open-circuit-voltage and high-efficiency organic solar cells. <i>Materials Today Nano</i> , 2018, 1, 47-59.	2.3	10
25	The substituents on the intermediate electron-deficient groups in small molecular acceptors result appropriate morphologies for organic solar cells. <i>Organic Electronics</i> , 2021, 93, 106133.	1.4	8
26	Metal Nanoclusters/Polyvinyl Alcohol Composite Films as the Alternatives for Fabricating Remote-Type White Light-Emitting Diodes. <i>Nanomaterials</i> , 2022, 12, 204.	1.9	5