Yameng Ren

List of Publications by Year
in descending order

20 papers	1,284 citations	516215 16 h-index	752256 20 g-index
20 all docs	20 docs citations	20 times ranked	1611 citing authors

#	Article	IF	Citations
1	A Stable Blue Photosensitizer for Color Palette of Dye-Sensitized Solar Cells Reaching 12.6% Efficiency. Journal of the American Chemical Society, 2018, 140, 2405-2408.	6.6	270
2	A molecular photosensitizer achieves a Voc of 1.24â€‰V enabling highly efficient and stable dye-sensitized solar cells with copper(II/I)-based electrolyte. Nature Communications, 2021, 12, 1777.	5.8	196
3	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
4	A structurally simple perylene dye with ethynylbenzothiadiazole-benzoic acid as the electron acceptor achieves an over 10% power conversion efficiency. Energy and Environmental Science, 2015, 8, 1438-1442.	15.6	85
5	Improving the performance of dye-sensitized solar cells with electron-donor and electron-acceptor characteristic of planar electronic skeletons. Energy and Environmental Science, 2016, 9, 1390-1399.	15.6	71
6	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
7	Transparent and Colorless Dye-Sensitized Solar Cells Exceeding 75% Average Visible Transmittance. Jacs Au, 2021, 1, 409-426.	3.6	66
8	Synthesis and Superior Anode Performances of TiO2â€“Carbonâ€“rGO Composites in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 4776-4780.	4.0	64
9	Phenanthreneâ€Fusedâ€Quinoxaline as a Key Building Block for Highly Efficient and Stable Sensitizers in Copperâ€Electrolyteâ€Based Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 9324-9329.	7.2	59
10	Efficient Triarylamineâ€“Perylene Dye-Sensitized Solar Cells: Influence of Triple-Bond Insertion on Charge Recombination. ACS Applied Materials & Interfaces, 2015, 7, 801-809.	4.0	40
11	Electron-Acceptor-Dependent Light Absorption and Charge-Transfer Dynamics in N-Annulated Perylene Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2015, 119, 980-988.	1.5	38
12	Unraveling the Pivotal Impacts of Electron-Acceptors on Light Absorption and Carrier Photogeneration in Perylene Dye Sensitized Solar Cells. ACS Photonics, 2014, 1, 710-717.	3.2	34
13	2Hâ€Dinaphthopentacene: A Polycyclic Aromatic Hydrocarbon Core for Metalâ€Free Organic Sensitizers in Efficient Dyeâ€Sensitized Solar Cells. Advanced Science, 2017, 4, 1700099.	5.6	32
14	Blue Photosensitizer with Copper(II/I) Redox Mediator for Efficient and Stable Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2020, 30, 2004804.	7.8	30
15	A Blue Photosensitizer Realizing Efficient and Stable Green Solar Cells via Color Tuning by the Electrolyte. Advanced Materials, 2020, 32, 2000193.	11.1	24
16	The Rise of Dyeâ€Sensitized Solar Cells: From Molecular Photovoltaics to Emerging Solidâ€State Photovoltaic Technologies. Helvetica Chimica Acta, 2021, 104, e2000230.	1.0	18
17	Phenanthreneâ€Fusedâ€Quinoxaline as a Key Building Block for Highly Efficient and Stable Sensitizers in Copperâ€Electrolyteâ€Based Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2020, 132, 9410-9415.	1.6	17
18	Effect of Donor Groups on the Performance of Cyclometalated Ruthenium Sensitizers in Dye-Sensitized Solar Cells. Inorganic Chemistry, 2017, 56, 13437-13445.	1.9	14

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19	Bisâ€Tridentateâ€Cyclometalated Ruthenium Complexes with Extended Anchoring Ligand and Their Performance in Dyeâ€Sensitized Solar Cells.. ChemistrySelect, 2018, 3, 1585-1592.	0.7	4
20	Evolution of the Excitedâ€State Dynamics of 2Hâ€Dinaphthopentacene Based Dyes in Dyeâ€Sensitized Solar Cells: From Chromophoric Core to Ultimate Dye. Solar Rrl, 2018, 2, 1800119.	3.1	3