

Min Zhang

List of Publications by Year in descending order

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45
papers

4,443
citations

159585

30
h-index

243625

44
g-index

45
all docs

45
docs citations

45
times ranked

3937
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Dye-Sensitized Solar Cells with an Organic Photosensitizer Featuring Orderly Conjugated Ethylenedioxythiophene and Dithienosilole Blocks. <i>Chemistry of Materials</i> , 2010, 22, 1915-1925.	6.7	933
2	Donor/Acceptor Indenoperylene Dye for Highly Efficient Organic Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 3799-3802.	13.7	528
3	Encapsulating Perovskite Quantum Dots in Iron-Based Metal-Organic Frameworks (MOFs) for Efficient Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9491-9495.	13.8	503
4	Design of high-efficiency organic dyes for titania solar cells based on the chromophoric core of cyclopentadithiophene-benzothiadiazole. <i>Energy and Environmental Science</i> , 2013, 6, 2944.	30.8	297
5	Dithienopicenocarbazole as the kernel module of low-energy-gap organic dyes for efficient conversion of sunlight to electricity. <i>Energy and Environmental Science</i> , 2015, 8, 3192-3197.	30.8	269
6	A Metal-Free N-Annulated Thienocyclopentaperylene Dye: Power Conversion Efficiency of 12% for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5994-5998.	13.8	196
7	Synchronously Reduced Surface States, Charge Recombination, and Light Absorption Length for High-Performance Organic Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4461-4464.	2.6	188
8	Organic dye-sensitized solar cells with a cobalt redox couple: influences of linker rigidification and dye bath solvent selection. <i>Energy and Environmental Science</i> , 2013, 6, 139-147.	30.8	93
9	Water-Tolerant Lead Halide Perovskite Nanocrystals as Efficient Photocatalysts for Visible-Light-Driven CO ₂ Reduction in Pure Water. <i>ChemSusChem</i> , 2019, 12, 4769-4774.	6.8	89
10	Engineering of Push-Pull Thiophene Dyes to Enhance Light Absorption and Modulate Charge Recombination in Mesoscopic Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 1846-1854.	14.9	81
11	In Situ Coating CsPbBr ₃ Nanocrystals with Graphdiyne to Boost the Activity and Stability of Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50464-50471.	8.0	81
12	In Situ Construction of Lead-Free Perovskite Direct Z-Scheme Heterojunction Cs ₃ Bi ₂ I ₉ /Bi ₂ WO ₆ for Efficient Photocatalysis of CO ₂ Reduction. <i>Solar Rrl</i> , 2021, 5, 2000691.	5.8	74
13	Lithium-Modulated Conduction Band Edge Shifts and Charge-Transfer Dynamics in Dye-Sensitized Solar Cells Based on a Dicyanamide Ionic Liquid. <i>Langmuir</i> , 2011, 27, 4749-4755.	3.5	73
14	Ultrathin and Small-Size Graphene Oxide as an Electron Mediator for Perovskite-Based Z-Scheme System to Significantly Enhance Photocatalytic CO ₂ Reduction. <i>Small</i> , 2020, 16, e2002140.	10.0	73
15	Improving the Photovoltage of Dithienopyrrole Dye-Sensitized Solar Cells via Attaching the Bulky Bis(octyloxy)biphenyl Moiety to the Conjugated Linker. <i>Advanced Functional Materials</i> , 2013, 23, 3539-3547.	14.9	70
16	Direct Z-Scheme Heterojunction of Ligand-Free FAPbBr ₃ /Fe ₂ O ₃ for Boosting Photocatalysis of CO ₂ Reduction Coupled with Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22314-22322.	8.0	59
17	Conjugated linker correlated energetics and kinetics in dithienopyrrole dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1604.	30.8	58
18	N-Annulated Perylene as a Coplanar Linker Alternative to Benzene as a Low Energy-Gap, Metal-Free Dye in Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400244.	19.5	57

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19	Judicious selection of a pinhole defect filler to generally enhance the performance of organic dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 2939.	30.8	53
20	Encapsulating Perovskite Quantum Dots in Iron-Based Metal-Organic Frameworks (MOFs) for Efficient Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie</i> , 2019, 131, 9591-9595.	2.0	53
21	Engineering a CsPbBr ₃ -based nanocomposite for efficient photocatalytic CO ₂ reduction: improved charge separation concomitant with increased activity sites. <i>RSC Advances</i> , 2019, 9, 34342-34348.	3.6	49
22	A halide perovskite as a catalyst to simultaneously achieve efficient photocatalytic CO ₂ reduction and methanol oxidation. <i>Chemical Communications</i> , 2020, 56, 4664-4667.	4.1	47
23	Rigidifying the π -Linker to Enhance Light Absorption of Organic Dye-Sensitized Solar Cells and Influences on Charge Transfer Dynamics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2977-2986.	3.1	44
24	FeCl ₃ as a low-cost and efficient p-type dopant of Spiro-OMeTAD for high performance perovskite solar cells. <i>RSC Advances</i> , 2018, 8, 9409-9413.	3.6	42
25	Efficient Triarylamine-Perylene Dye-Sensitized Solar Cells: Influence of Triple-Bond Insertion on Charge Recombination. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 801-809.	8.0	40
26	Stand-Alone CdS Nanocrystals for Photocatalytic CO ₂ Reduction with High Efficiency and Selectivity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26573-26580.	8.0	37
27	Two-Dimensional Metal Halide Perovskite Nanosheets for Efficient Photocatalytic CO ₂ Reduction. <i>Solar Rrl</i> , 2021, 5, 2100263.	5.8	36
28	Unraveling the Pivotal Impacts of Electron-Acceptors on Light Absorption and Carrier Photogeneration in Perylene Dye Sensitized Solar Cells. <i>ACS Photonics</i> , 2014, 1, 710-717.	6.6	34
29	Glycine-Functionalized CsPbBr ₃ Nanocrystals for Efficient Visible-Light Photocatalysis of CO ₂ Reduction. <i>Chemistry - A European Journal</i> , 2021, 27, 2305-2309.	3.3	32
30	Self-template-oriented synthesis of lead-free perovskite Cs ₃ Bi ₂ I ₉ nanosheets for boosting photocatalysis of CO ₂ reduction over Z-scheme heterojunction Cs ₃ Bi ₂ I ₉ /CeO ₂ . <i>Journal of Energy Chemistry</i> , 2022, 69, 348-355.	12.9	32
31	Unlocking the effects of ancillary electron-donors on light absorption and charge recombination in phenanthrocarbazole dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 519-528.	10.3	31
32	Acetate-assistant efficient cation-exchange of halide perovskite nanocrystals to boost the photocatalytic CO ₂ reduction. <i>Nano Research</i> , 2022, 15, 1845-1852.	10.4	27
33	Significant Influences of Elaborately Modulating Electron Donors on Light Absorption and Multichannel Charge-Transfer Dynamics for 4-(Benzo[1,2,5]thiadiazol-4-ylethynyl)benzoic Acid Dyes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18292-18300.	8.0	20
34	β -Cyclodextrin Decorated CdS Nanocrystals Boosting the Photocatalytic Conversion of Alcohols. <i>CCS Chemistry</i> , 2020, 2, 81-88.	7.8	20
35	Theoretical design and characterization of high-efficiency organic dyes with different electron-withdrawing groups based on C275 toward dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2016, 40, 9320-9328.	2.8	18
36	Judicious engineering of a metal-free perylene dye for high-efficiency dye sensitized solar cells: the control of excited state and charge carrier dynamics. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3514-3522.	10.3	18

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37	Benzothiadiazole-ethynylthiophenezoic acid as an acceptor of photosensitizer for efficient organic dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21493-21500.	10.3	17
38	Electron-Acceptor-Dependent Light Absorption, Excited-State Relaxation, and Charge Generation in Triphenylamine Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2015, 8, 97-104.	6.8	16
39	Exploring the regeneration process of ruthenium(II) dyes by cobalt mediator in dye-sensitized solar cells from first-principle calculations. <i>Journal of Power Sources</i> , 2015, 294, 264-271.	7.8	12
40	In-situ growth of PbI ₂ on ligand-free FAPbBr ₃ nanocrystals to significantly ameliorate the stability of CO ₂ photoreduction. <i>Chinese Chemical Letters</i> , 2022, 33, 3039-3042.	9.0	11
41	Lattice-matched in-situ construction of 2D/2D T-SrTiO ₃ /CsPbBr ₃ heterostructure for efficient photocatalysis of CO ₂ reduction. <i>Chinese Chemical Letters</i> , 2023, 34, 107682.	9.0	11
42	Altering the Self-Organization of Dyes on Titania with Dyeing Solvents to Tune the Charge-Transfer Dynamics of Sensitized Solar Cells. <i>ChemPhysChem</i> , 2014, 15, 1037-1042.	2.1	10
43	Correlating excited state and charge carrier dynamics with photovoltaic parameters of perylene dye sensitized solar cells: influences of an alkylated carbazole ancillary electron-donor. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2549-2556.	2.8	8
44	Evolution of the Excited-State Dynamics of 2-Hydroxy-10-Dinaphthopentacene Based Dyes in Dye-Sensitized Solar Cells: From Chromophoric Core to Ultimate Dye. <i>Solar Rrl</i> , 2018, 2, 1800119.	5.8	3
45	Thienochrysenocarbazole-Based Dyes for Solar Cell: A Theoretical Investigation of the Tethering-Position-Related Influence of Triple-Bond on the Electronic and Optical Properties. <i>ChemistrySelect</i> , 2018, 3, 11579-11584.	1.5	0