Nannan Yao

List of Publications by Year
in descending order

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22	687	567281 15	677142 22
papers	citations	h-index	g-index

23	23	23	891
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. Nature Communications, 2021, 12, 4627.	12.8	98
2	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. Energy and Environmental Science, 2022, 15, 855-865.	30.8	62
3	Efficiency enhancement in dye-sensitized solar cells with down conversion material ZnO: Eu3+, Dy3+. Journal of Power Sources, 2014, 267, 405-410.	7.8	60
4	Enhanced light harvesting of dye-sensitized solar cells with up/down conversion materials. Electrochimica Acta, 2015, 154, 273-277.	5.2	60
5	Rare earth ion doped phosphors for dye-sensitized solar cells applications. RSC Advances, 2016, 6, 17546-17559.	3.6	58
6	ZnO@CdS Core-Shell Heterostructures: Fabrication, Enhanced Photocatalytic, and Photoelectrochemical Performance. Nanoscale Research Letters, 2016, 11, 205.	5.7	51
7	Reduced interfacial recombination in dye-sensitized solar cells assisted with NiO:Eu3+,Tb3+ coated TiO2 film. Scientific Reports, 2016, 6, 31123.	3.3	49
8	Efficient Charge Transport Enables High Efficiency in Dilute Donor Organic Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 5039-5044.	4.6	41
9	Enhanced Photocatalytic Activity of TiO₂ Nanorod Arrays Decorated with CdSe Using an Upconversion TiO₂:Yb³⁺,Er³⁺ Thin Film. Industrial & Engineering Chemistry Research, 2015, 54, 659-665.	3.7	40
10	On the understanding of energy loss and device fill factor trade-offs in non-fullerene organic solar cells with varied energy levels. Nano Energy, 2020, 75, 105032.	16.0	34
11	A Comparative Study on Hole Transfer Inversely Correlated with Driving Force in Two Non-Fullerene Organic Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 4110-4116.	4.6	21
12	A diketopyrrolopyrrole-based macrocyclic conjugated molecule for organic electronics. Journal of Materials Chemistry C, 2019, 7, 3802-3810.	5.5	21
13	Solution-Processed Highly Efficient Semitransparent Organic Solar Cells with Low Donor Contents. ACS Applied Energy Materials, 2021, 4, 14335-14341.	5.1	19
14	Fabrication of TiO2 Nanosheet Aarrays/Graphene/Cu2O Composite Structure for Enhanced Photocatalytic Activities. Nanoscale Research Letters, 2017, 12, 310.	5.7	16
15	Improving the photovoltaic performance of dye sensitized solar cells based on a hierarchical structure with up/down converters. RSC Advances, 2016, 6, 11880-11887.	3.6	15
16	Enhanced Photocatalytic Activity Based on Composite Structure with Downconversion Material and Graphene. Industrial & Engineering Chemistry Research, 2016, 55, 1559-1565.	3.7	13
17	Fast Field-Insensitive Charge Extraction Enables High Fill Factors in Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 38460-38469.	8.0	8
18	Enhanced Efficiency of Dye-Sensitized Solar Cells Benefited from Graphene Modified by Ag Nanoparticles. Journal of Nanoscience and Nanotechnology, 2018, 18, 3693-3696.	0.9	7

#	Article	IF	Citations
19	Hybrid nanostructures of TiO₂ nanorod array/Cu₂O with a CH₃NH₃PbI₃ interlayer for enhanced photocatalytic activity and photoelectrochemical performance. RSC Advances, 2016, 6, 57695-57700.	3.6	5
20	Low cost and high catalytic efficiency composite counter electrode NiS-H 3 Mo 12 O 40 P for dye-sensitized solar cells. Materials Letters, 2017, 198, 65-68.	2.6	4
21	Enhanced Dye-Sensitized Solar Cell Efficiency by Insertion of a H₃PW₁₂O₄₀ Layer Between the Transparent Conductive Oxide Layer and the Compact TiO₂ Layer. Science of Advanced Materials, 2018, 10, 867-871.	0.7	4
22	Enhanced Photovoltaic Properties of Dye Sensitized Solar Cells by Using Ag Nanowires@TiO₂ Composite Materials. Journal of Nanoscience and Nanotechnology, 2017, 17, 8981-8986.	0.9	1