

Shanpeng Wen

List of Publications by Year in descending order

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49
papers

1,880
citations

236925

25
h-index

254184

43
g-index

50
all docs

50
docs citations

50
times ranked

3185
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright Perovskite Nanocrystal Films for Efficient Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4602-4610.	4.6	288
2	High-Performance Colorful Semitransparent Polymer Solar Cells with Ultrathin Hybrid-Metal Electrodes and Fine-Tuned Dielectric Mirrors. <i>Advanced Functional Materials</i> , 2017, 27, 1605908.	14.9	157
3	Energy Level and Molecular Structure Engineering of Conjugated Donor-Acceptor Copolymers for Photovoltaic Applications. <i>Macromolecules</i> , 2009, 42, 4491-4499.	4.8	118
4	Hierarchical Fe ₃ O ₄ @Co ₃ O ₄ core-shell microspheres: Preparation and acetone sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 346-353.	7.8	98
5	A novel humidity sensor based on NH ₂ -MIL-125(Ti) metal organic framework with high responsiveness. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	76
6	Synthesis of 4,7-Diphenyl-2,1,3-Benzothiadiazole-Based Copolymers and Their Photovoltaic Applications. <i>Macromolecules</i> , 2009, 42, 4977-4984.	4.8	72
7	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 1910530.	14.9	72
8	Synthesis of Ni-doped γ -MoO ₃ nanolamella and their improved gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 757-763.	7.8	65
9	Self-Sacrificial Template-Driven LaFeO ₃ /γ-Fe ₂ O ₃ Porous Nano-Octahedrons for Acetone Sensing. <i>ACS Applied Nano Materials</i> , 2018, 1, 4671-4681.	5.0	65
10	Gas Sensors Based on Metal Sulfide Zn _{1-x} Cd _x S Nanowires with Excellent Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20793-20800.	8.0	60
11	Synergistically improved formaldehyde gas sensing properties of SnO ₂ microspheres by indium and palladium co-doping. <i>Ceramics International</i> , 2015, 41, 7329-7336.	4.8	55
12	Oxygen vacancies dominated CuO@ZnFe ₂ O ₄ yolk-shell microspheres for robust and selective detection of xylene. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 117-126.	7.8	47
13	Visible-light photodetector with enhanced performance based on a ZnO@CdS heterostructure. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2231-2236.	5.5	43
14	Special nanostructure control of ethanol sensing characteristics based on Au@In ₂ O ₃ sensor with good selectivity and rapid response. <i>RSC Advances</i> , 2015, 5, 9884-9890.	3.6	40
15	High-Efficiency and Stable Perovskite Solar Cells Prepared Using Chlorobenzene/Acetonitrile Antisolvent. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34989-34996.	8.0	38
16	Fe ₃ O ₄ @NiO core-shell composites: Hydrothermal synthesis and toluene sensing properties. <i>Materials Letters</i> , 2014, 132, 167-170.	2.6	35
17	Humidity sensing properties of FeCl ₃ -NH ₂ -MIL-125(Ti) composites. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 281-285.	7.8	34
18	Synthesis and Photovoltaic Properties of Thieno[3,4-c]pyrrole-4,6-dione-based donor-acceptor Copolymers. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3758-3766.	2.3	32

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19	A new type of acetylene gas sensor based on a hollow heterostructure. RSC Advances, 2015, 5, 61521-61527.	3.6	32
20	Donor-acceptor copolymers incorporating polybenzo[1,2-b:4,5-b']dithiophene and tetrazine for high open circuit voltage polymer solar cells. Organic Electronics, 2013, 14, 2124-2131.	2.6	31
21	A benzo[1,2-b:4,5-b']dithiophene-based copolymer with deep HOMO level for efficient polymer solar cells. Solar Energy Materials and Solar Cells, 2012, 100, 239-245.	6.2	30
22	The effects of Zr-doping on improving the sensitivity and selectivity of a one-dimensional In_2S_3 -MoO ₃ -based xylene gas sensor. Inorganic Chemistry Frontiers, 2020, 7, 1704-1712.	6.0	29
23	Synthesis and photovoltaic properties of poly(p-phenylenevinylene) derivatives containing oxadiazole. Journal of Polymer Science Part A, 2009, 47, 1003-1012.	2.3	27
24	Synthesis and photovoltaic properties of low-bandgap 4,7-dithieno[2,2':5,5']-2,1,3-benzothiadiazole-based poly(heteroarylenevinylene)s. Journal of Polymer Science Part A, 2011, 49, 2715-2724.	2.3	26
25	Effects of growth substrates on the morphologies of TiO ₂ nanowire arrays and the performance of assembled UV detectors. Applied Surface Science, 2014, 315, 55-58.	6.1	26
26	Low temperature operating $\text{In}_2\text{S}_3/\text{NiO}$ sensors with high response and good selectivity for NO ₂ gas. Journal of Alloys and Compounds, 2013, 581, 653-658.	5.5	23
27	Combining plasmonic trap filling and optical backscattering for highly efficient third generation solar cells. Journal of Materials Chemistry A, 2017, 5, 3995-4002.	10.3	19
28	Synthesis and photovoltaic properties of dithieno[3,2-b:2',3'-d]silole-based conjugated copolymers. Journal of Materials Chemistry A, 2015, 3, 13794-13800.	10.3	18
29	Small molecules based on tetrazine unit for efficient performance solution-processed organic solar cells. Solar Energy Materials and Solar Cells, 2016, 155, 30-37.	6.2	18
30	Suppressing TiO ₂ /Perovskite Interfacial Electron Trapping in Perovskite Solar Cell for Efficient Charge Extraction and Improved Device Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 11295-11302.	6.7	18
31	Passivation agent with dipole moment for surface modification towards efficient and stable perovskite solar cells. Journal of Energy Chemistry, 2022, 64, 55-61.	12.9	17
32	Efficiency Improvement of Organic Solar Cells via Introducing Combined Anode Buffer Layer To Facilitate Hole Extraction. Journal of Physical Chemistry C, 2016, 120, 13954-13962.	3.1	16
33	Delicate Energy-Level Adjustment and Interfacial Defect Passivation of ZnO Electron Transport Layers in Organic Solar Cells by Constructing ZnO/In Nanojunctions. Journal of Physical Chemistry C, 2019, 123, 16546-16555.	3.1	16
34	Three dimensions sphere formaldehyde nanosensor applications: preparation and sensing properties. RSC Advances, 2015, 5, 50336-50343.	3.6	14
35	Improved Efficiency in Dithieno[3,2-b:2',3'-d]silole-Based Polymer Solar Cells by the Insertion of ZnO Optical Spacer. Journal of Physical Chemistry C, 2015, 119, 20817-20822.	3.1	13
36	Polyelectrolyte interlayers with a broad processing window for high efficiency inverted organic solar cells towards mass production. Journal of Materials Chemistry A, 2018, 6, 17662-17670.	10.3	13

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37	Molecular Doping Inhibits Charge Trapping in Low-Temperature-Processed ZnO toward Flexible Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14423-14432.	8.0	13
38	Enhanced Electronic Quality of Perovskite via a Novel C ₆₀ -o-Quinodimethane Bisadducts toward Efficient and Stable Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8579-8586.	6.7	12
39	Enhanced Photovoltaic Performance of Tetrazine-Based Small Molecules with Conjugated Side Chains. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8684-8692.	6.7	10
40	Efficiency of MAPbI ₃ -Based Planar Solar Cell Analyzed by Its Thickness-Dependent Exciton Formation, Morphology, and Crystallinity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14810-14820.	8.0	10
41	Efficient Perovskite Solar Cells Achieved using the 2-Methoxyethanol Additive: Morphology and Composition Control of Intermediate Film. <i>ACS Applied Energy Materials</i> , 2021, 4, 2681-2689.	5.1	10
42	Highly efficient polymer solar cells based on low-temperature processed ZnO: application of a bifunctional Au@CNTs nanocomposite. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2676-2685.	5.5	9
43	Optimization of PDTS-DTffBT-Based Solar Cell Performance through Control of Polymer Molecular Weight. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19513-19520.	3.1	8
44	Using Ligand Engineering to Produce Efficient and Stable Pb-Sn Perovskite Solar Cells with Antioxidative 2D Capping Layers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14729-14738.	8.0	8
45	Employing Pentacene To Balance the Charge Transport in Inverted Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17110-17117.	3.1	6
46	Effects of BTA2 as the third component on the charge carrier generation and recombination behavior of PTB7:PC71BM photovoltaic system. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 127-137.	4.4	6
47	Humidity sensing properties of CeO ₂ -NiO nanocomposite materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3083-3089.	2.2	4
48	Enhanced open-circuit voltages and efficiencies: the role of oxidation state of molybdenum oxide buffer layer in polymer solar cells. <i>RSC Advances</i> , 2021, 11, 35141-35146.	3.6	2
49	Hybrid Lead Halide Perovskite Films with Large Grain Size Via Spin-Coating Free Fabrication. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000650.	1.8	1