

Jianhua Han

List of Publications by Year in descending order

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48
papers

1,648
citations

218662

26
h-index

289230

40
g-index

48
all docs

48
docs citations

48
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficiency photoelectrochemical electrodes based on ZnIn ₂ S ₄ sensitized ZnO nanotube arrays. Applied Catalysis B: Environmental, 2015, 163, 179-188.	20.2	128
2	Hybrid PbS Quantum Dots/Perovskite for High-Efficiency Perovskite Solar Cell. Small, 2018, 14, e180101610.0	10.0	111
3	ZnO/CuInS ₂ core/shell heterojunction nanoarray for photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2012, 37, 15029-15037.	7.1	85
4	AgSbS ₂ modified ZnO nanotube arrays for photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2015, 179, 61-68.	20.2	81
5	Enhancing the Performance of Perovskite Solar Cells by Hybridizing SnS Quantum Dots with CH ₃ NH ₃ PbI ₃ . Small, 2017, 13, 1700953.	10.0	73
6	Efficiently Improving the Stability of Inverted Perovskite Solar Cells by Employing Polyethylenimine-Modified Carbon Nanotubes as Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 31384-31393.	8.0	68
7	Enhancing electron transport via graphene quantum dot/SnO ₂ composites for efficient and durable flexible perovskite photovoltaics. Journal of Materials Chemistry A, 2019, 7, 1878-1888.	10.3	67
8	In situ formation of a 2D/3D heterostructure for efficient and stable CsPb ₂ Br solar cells. Journal of Materials Chemistry A, 2019, 7, 22675-22682.	10.3	63
9	Critical roles of potassium in charge-carrier balance and diffusion induced defect passivation for efficient inverted perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 5666-5676.	10.3	62
10	PEC electrode of ZnO nanorods sensitized by CdS with different size and its photoelectric properties. International Journal of Hydrogen Energy, 2013, 38, 10226-10234.	7.1	58
11	The synergistic effect with S-vacancies and built-in electric field on a TiO ₂ /MoS ₂ photoanode for enhanced photoelectrochemical performance. Sustainable Energy and Fuels, 2021, 5, 509-517.	4.9	57
12	High-Efficiency AgInS ₂ -Modified ZnO Nanotube Array Photoelectrodes for All-Solid-State Hybrid Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 17119-17125.	8.0	55
13	Synergistic effect of charge separation and defect passivation using zinc porphyrin dye incorporation for efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 26334-26341.	10.3	44
14	Trilaminar ZnO/ZnS/Sb ₂ S ₃ nanotube arrays for efficient inorganic-organic hybrid solar cells. RSC Advances, 2014, 4, 23807.	3.6	40
15	Ultrathin Zn ₂ SnO ₄ (ZTO) passivated ZnO nanocone arrays for efficient and stable perovskite solar cells. Chemical Engineering Journal, 2019, 361, 60-66.	12.7	39
16	Cu-doping ZnO/ZnS nanorods serve as the photoanode to enhance photocurrent and conversion efficiency. Microelectronic Engineering, 2013, 103, 12-16.	2.4	38
17	Optimization and Modulation Strategies of Zinc Oxide-based Photoanodes for Highly Efficient Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2021, 4, 1004-1013.	5.1	38
18	Efficient visible light photocatalytic activity of p-n junction CuO/TiO ₂ loaded on natural zeolite. RSC Advances, 2015, 5, 64495-64502.	3.6	37

#	ARTICLE	IF	CITATIONS
19	Perovskite/Poly[bis(4-phenyl)(2,4,6-trimethylphenyl)amine] Bulk Heterojunction for High-Efficient Carbon-Based Large-Area Solar Cells by Gradient Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42328-42334.	8.0	37
20	Synthesis of metal sulfide sensitized zinc oxide-based core/shell/shell nanorods and their photoelectrochemical properties. <i>Journal of Power Sources</i> , 2014, 268, 388-396.	7.8	36
21	Fabrication of ZnO/CuS core/shell nanoarrays for inorganic-organic heterojunction solar cells. <i>Materials Chemistry and Physics</i> , 2013, 141, 804-809.	4.0	31
22	Preparation and enhanced photoelectrochemical performance of selenite-sensitized zinc oxide core/shell composite structure. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4239-4247.	10.3	30
23	Higher-efficiency photoelectrochemical electrodes of titanium dioxide-based nanoarrays sensitized simultaneously with plasmonic silver nanoparticles and multiple metal sulfides photosensitizers. <i>Journal of Power Sources</i> , 2015, 285, 185-194.	7.8	30
24	Improved Moisture Stability of Perovskite Solar Cells Using N719 Dye Molecules. <i>Solar Rrl</i> , 2019, 3, 1900345.	5.8	30
25	Jalpaite Ag ₃ CuS ₂ : a novel promising ternary sulfide absorber material for solar cells. <i>Chemical Communications</i> , 2015, 51, 2597-2600.	4.1	28
26	An Excellent Modifier: Carbon Quantum Dots for Highly Efficient Carbon-Electrode-Based Methyllummonium Lead Iodide Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900146.	5.8	27
27	Zinc ferrite-based p-n homojunction with multi-effect for efficient photoelectrochemical water splitting. <i>Chemical Communications</i> , 2020, 56, 13205-13208.	4.1	24
28	Highly efficient inverted perovskite solar cells based on self-assembled graphene derivatives. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20702-20711.	10.3	22
29	Three-dimensional flower-like hybrid BiOI-zeolite composites with highly efficient adsorption and visible light photocatalytic activity. <i>RSC Advances</i> , 2014, 4, 45540-45547.	3.6	20
30	Synthesis of ZnO/Cu ₂ S core/shell nanorods and their enhanced photoelectric performance. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 72, 92-99.	2.4	18
31	Improved phase stability of $\text{CH}_3\text{-CsPbI}_3$ perovskite nanocrystals using the interface effect using iodine modified graphene oxide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2569-2578.	5.5	18
32	Simultaneous Modulation of Interface Reinforcement, Crystallization, Anti-Reflection, and Carrier Transport in Sb Gradient-Doped SnO ₂ /Sb ₂ S ₃ Heterostructure for Efficient Photoelectrochemical Cell. <i>Small</i> , 2022, 18, e2105026.	10.0	18
33	TiO ₂ nanotubes/nanoparticles composite film with higher light harvesting and electron transfer for dye-sensitized solar cells. <i>Electronic Materials Letters</i> , 2012, 8, 481-484.	2.2	17
34	A novel quaternary solid solution photo-absorber material for photoelectrochemical hydrogen generation. <i>Chemical Communications</i> , 2015, 51, 13678-13681.	4.1	17
35	A ZnO@CuO core-shell heterojunction photoanode modified with ZnFe-LDH for efficient and stable photoelectrochemical performance. <i>Dalton Transactions</i> , 2021, 50, 4593-4603.	3.3	17
36	Trilaminar graphene/tremella-like CuInS ₂ /graphene oxide nanofilms and the enhanced activity for photoelectrochemical water splitting. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	14

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37	Inverted Perovskite Solar Cells with Efficient Mixed Fullerene Derivative Charge Extraction Layers. ChemistrySelect, 2018, 3, 6802-6809.	1.5	13
38	Laser-Induced Flash-Evaporation Printing $\text{CH}_3\text{NH}_3\text{PbI}_3$ Thin Films for High-Performance Planar Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 26206-26212.	8.0	10
39	Zeolite-based CuO nanotubes catalysts: investigating the characterization, mechanism, and decolouration process of methylene blue. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	9
40	Reduced Graphene Oxide/CZTS \times Se \times Composites as a Novel Hole Transport Functional Layer in Perovskite Solar Cells. ChemElectroChem, 2019, 6, 1500-1507.	3.4	9
41	High Efficient Large-area Perovskite Solar Cells Based on Paintable Carbon Electrode with NiO Nanocrystal-carbon Intermediate Layer. Chemistry Letters, 2019, 48, 734-737.	1.3	8
42	Controlling Superhydrophobicity of Aluminum with Hierarchical Micro-Nanostructure Film for Superb Self-Cleaning and Anti-Corrosion. ChemistrySelect, 2022, 7, .	1.5	5
43	Preparation of cauliflower-like CdS/ZnS/ZnO nanostructure and its photoelectric properties. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	4
44	Preparation and Photocatalysis of Schlumbergera bridgesii-Like CdS Modified One-Dimensional TiO ₂ Nanowires on Zeolite. Journal of Materials Engineering and Performance, 2015, 24, 700-708.	2.5	4
45	All Solution-Processed $\text{Cu}_2\text{ZnSnS}_4$ Solar Cell by Using High-Boiling-Point Solvent Treated Ball-Milling Process with Efficiency Exceeding 6%. ChemistrySelect, 2019, 4, 982-989.	1.5	4
46	Fabrication and Photoelectric Properties of Large Area ZnO Nanorod with Au Nanospheres. Plasmonics, 2016, 11, 131-137.	3.4	2
47	All-Layer Sputtering-Free $\text{Cu}_2\text{ZnSnS}_4$ Solar Cell with Efficiency Exceeding 7.5%. ChemistrySelect, 2019, 4, 5979-5983.	1.5	1
48	Improved Moisture Stability of Perovskite Solar Cells Using N719 Dye Molecules. Solar Rrl, 2019, 3, 1970115.	5.8	1