

Heng Zhao

List of Publications by Year in descending order

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39
papers

2,225
citations

218662

26
h-index

302107

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all docs

39
docs citations

39
times ranked

2628
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen self-doped g-C ₃ N ₄ with tunable electronic band structure for unprecedentedly enhanced photocatalytic performance. <i>Nanoscale</i> , 2018, 10, 4515-4522.	5.6	247
2	Synergistic promotion of solar-driven H ₂ generation by three-dimensionally ordered macroporous structured TiO ₂ -Au-CdS ternary photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 184, 182-190.	20.2	143
3	Homojunction of Oxygen and Titanium Vacancies and its Interfacial n-p Effect. <i>Advanced Materials</i> , 2018, 30, e1802173.	21.0	134
4	Blue-edge slow photons promoting visible-light hydrogen production on gradient ternary 3DOM TiO ₂ -Au-CdS photonic crystals. <i>Nano Energy</i> , 2018, 47, 266-274.	16.0	132
5	Slow Photons for Photocatalysis and Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1605349.	21.0	129
6	Hierarchical CdS/m-TiO ₂ /G ternary photocatalyst for highly active visible light-induced hydrogen production from water splitting with high stability. <i>Nano Energy</i> , 2018, 47, 8-17.	16.0	125
7	3D Ferroconcrete-Like Aminated Carbon Nanotubes Network Anchoring Sulfur for Advanced Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1801066.	19.5	115
8	Self-assembly of polyhedral oligosilsesquioxane (POSS) into hierarchically ordered mesoporous carbons with uniform microporosity and nitrogen-doping for high performance supercapacitors. <i>Nano Energy</i> , 2016, 22, 255-268.	16.0	97
9	n-p Heterojunction of TiO ₂ -NiO core-shell structure for efficient hydrogen generation and lignin photoreforming. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 694-704.	9.4	91
10	PtO nanodots promoting Ti ₃ C ₂ MXene in-situ converted Ti ₃ C ₂ /TiO ₂ composites for photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 420, 129695.	12.7	88
11	Selective biomass photoreforming for valuable chemicals and fuels: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111266.	16.4	70
12	Carbon quantum dots modified TiO ₂ composites for hydrogen production and selective glucose photoreforming. <i>Journal of Energy Chemistry</i> , 2022, 64, 201-208.	12.9	63
13	Coproduction of hydrogen and lactic acid from glucose photocatalysis on band-engineered Zn _{1-x} Cd _x S homojunction. <i>IScience</i> , 2021, 24, 102109.	4.1	61
14	Enhanced Gas Sensitivity and Selectivity on Aperture-Controllable 3D Interconnected Macro-Mesoporous ZnO Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8583-8590.	8.0	60
15	Type II heterojunction in hierarchically porous zinc oxide/graphitic carbon nitride microspheres promoting photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 99-107.	9.4	49
16	Probing conducting polymers@cadmium sulfide core-shell nanorods for highly improved photocatalytic hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 1-10.	9.4	48
17	Plasmon enhanced glucose photoreforming for arabinose and gas fuel co-production over 3DOM TiO ₂ -Au. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120055.	20.2	47
18	Sunlight-Driven Biomass Photorefinery for Coproduction of Sustainable Hydrogen and Value-Added Biochemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15772-15781.	6.7	43

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19	Polymeric carbon nitride-based photocatalysts for photoreforming of biomass derivatives. <i>Green Chemistry</i> , 2021, 23, 7435-7457.	9.0	39
20	Meso- μ Microporous Nanosheet-Constructed 3DOM Perovskites for Remarkable Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	37
21	Molybdenum disulfide quantum dots directing zinc indium sulfide heterostructures for enhanced visible light hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2019, 551, 111-118.	9.4	35
22	Mechanistic understanding of cellulose β -1,4-glycosidic cleavage via photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120872.	20.2	35
23	Light-assisted preparation of heterostructured g-C ₃ N ₄ /ZnO nanorods arrays for enhanced photocatalytic hydrogen performance. <i>Catalysis Today</i> , 2020, 355, 932-936.	4.4	33
24	Interfacial co-existence of oxygen and titanium vacancies in nanostructured TiO ₂ for enhancement of carrier transport. <i>Nanoscale</i> , 2020, 12, 8364-8370.	5.6	33
25	Active faceted Cu ₂ O hollow nanospheres for unprecedented adsorption and visible-light degradation of pollutants. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 207-217.	9.4	31
26	Rational design of carbon nitride for remarkable photocatalytic H ₂ O ₂ production. <i>Chem Catalysis</i> , 2022, 2, 1720-1733.	6.1	31
27	Cadmium Sulfide Inverse Opal for Photocatalytic Hydrogen Production. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, 36, 18030140.	4.9	26
28	Electron-enriched Lewis acid-base sites on red carbon nitride for simultaneous hydrogen production and glucose isomerization. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121647.	20.2	25
29	Size effect of bifunctional gold in hierarchical titanium oxide-gold-cadmium sulfide with slow photon effect for unprecedented visible-light hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 131-140.	9.4	23
30	Cascade electronic band structured zinc oxide/bismuth vanadate/three-dimensional ordered macroporous titanium dioxide ternary nanocomposites for enhanced visible light photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 585-597.	9.4	20
31	Techno-economic analysis of a solar-powered biomass electrolysis pathway for coproduction of hydrogen and value-added chemicals. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5568-5577.	4.9	20
32	A hierarchical zeolitic Murray material with a mass transfer advantage promotes catalytic efficiency improvement. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2829-2835.	6.0	18
33	Theory-oriented Synthesis of 2D/2D BiVO ₄ /MXene Heterojunction for Simultaneous Removal of Hexavalent Chromium and Methylene Blue. <i>ChemCatChem</i> , 2021, 13, 3046-3053.	3.7	17
34	Nickel clusters accelerating hierarchical zinc indium sulfide nanoflowers for unprecedented visible-light hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 504-512.	9.4	17
35	NiO-TiO ₂ p-n Heterojunction for Solar Hydrogen Generation. <i>Catalysts</i> , 2021, 11, 1427.	3.5	12
36	Plasmon-Enhanced 5-Hydroxymethylfurfural Production from the Photothermal Conversion of Cellulose in a Biphasic Medium. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16115-16122.	6.7	9

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37	Unlocking Selective Pathways for Glucose Photoreforming by Modulating Reaction Conditions. ACS Sustainable Chemistry and Engineering, 2022, 10, 5867-5874.	6.7	9
38	Confined synthesis of BiVO ₄ nanodot and ZnO cluster co-decorated 3DOM TiO ₂ for formic acid production from the xylan-based hemicellulose photorefinery. Green Chemistry, 2021, 23, 8124-8130.	9.0	7
39	CdS-based artificial leaf for photocatalytic hydrogen evolution and simultaneous degradation of biological wastewater. Chemosphere, 2022, 301, 134713.	8.2	6