

Heng Zhao

List of Publications by Year in descending order

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39
papers

2,225
citations

249298

26
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340414

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all docs

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docs citations

39
times ranked

2955
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.0	17
2	Carbon quantum dots modified TiO ₂ composites for hydrogen production and selective glucose photoreforming. <i>Journal of Energy Chemistry</i> , 2022, 64, 201-208.	7.1	63
3	Mechanistic understanding of cellulose β -1,4-glycosidic cleavage via photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120872.	10.8	35
4	Meso- μ Microporous Nanosheet-Constructed 3DOM Perovskites for Remarkable Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37
5	Unlocking Selective Pathways for Glucose Photoreforming by Modulating Reaction Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5867-5874.	3.2	9
6	Rational design of carbon nitride for remarkable photocatalytic H ₂ O ₂ production. <i>Chem Catalysis</i> , 2022, 2, 1720-1733.	2.9	31
7	CdS-based artificial leaf for photocatalytic hydrogen evolution and simultaneous degradation of biological wastewater. <i>Chemosphere</i> , 2022, 301, 134713.	4.2	6
8	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.	10.8	25
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.	5.0	91
10	Confined synthesis of BiVO ₄ nanodot and ZnO cluster co-decorated 3DOM TiO ₂ for formic acid production from the xylan-based hemicellulose photorefinery. <i>Green Chemistry</i> , 2021, 23, 8124-8130.	4.6	7
11	Polymeric carbon nitride-based photocatalysts for photoreforming of biomass derivatives. <i>Green Chemistry</i> , 2021, 23, 7435-7457.	4.6	39
12	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.	1.9	61
13	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.	1.8	17
14	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.	10.8	47
15	Selective biomass photoreforming for valuable chemicals and fuels: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111266.	8.2	70
16	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.	6.6	88
17	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.	5.0	23
18	NiO-TiO ₂ p-n Heterojunction for Solar Hydrogen Generation. <i>Catalysts</i> , 2021, 11, 1427.	1.6	12

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19	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.	3.2	9
20	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.	2.2	33
21	Sunlight-Driven Biomass Photorefinery for Coproduction of Sustainable Hydrogen and Value-Added Biochemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15772-15781.	3.2	43
22	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.	2.5	20
23	Interfacial co-existence of oxygen and titanium vacancies in nanostructured TiO ₂ for enhancement of carrier transport. <i>Nanoscale</i> , 2020, 12, 8364-8370.	2.8	33
24	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.	5.0	31
25	Cadmium Sulfide Inverse Opal for Photocatalytic Hydrogen Production. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, 36, 1803014-0.	2.2	26
26	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.	5.0	35
27	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.	5.0	20
28	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.	5.0	49
29	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.	5.0	48
30	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.	8.2	132
31	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.	8.2	125
32	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.	2.8	247
33	A hierarchical zeolitic Murray material with a mass transfer advantage promotes catalytic efficiency improvement. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2829-2835.	3.0	18
34	Homojunction of Oxygen and Titanium Vacancies and its Interfacial n-p Effect. <i>Advanced Materials</i> , 2018, 30, e1802173.	11.1	134
35	3D Ferroconcrete-Like Aminated Carbon Nanotubes Network Anchoring Sulfur for Advanced Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1801066.	10.2	115
36	Slow Photons for Photocatalysis and Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1605349.	11.1	129

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37	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.	10.8	143
38	Enhanced Gas Sensitivity and Selectivity on Aperture-Controllable 3D Interconnected Macro-“Mesoporous ZnO Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8583-8590.	4.0	60
39	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.	8.2	97