

Yidong Hou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

7,036
citations

36
h-index

78
g-index

78
ext. papers

8,106
ext. citations

10.2
avg, IF

6
L-index

#	Paper	IF	Citations
77	Carbon encapsulated bimetallic FeCo nanoalloys for one-step hydroxylation of benzene to phenol. <i>Applied Catalysis A: General</i> , 2022 , 633, 118499	5.1	1
76	Semiconducting Polymers for Oxygen Evolution Reaction under Light Illumination.. <i>Chemical Reviews</i> , 2022 ,	68.1	27
75	Unique functionalities of carbon shells coating on ZnFe ₂ O ₄ for enhanced photocatalytic hydroxylation of benzene to phenol. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 120999	21.8	5
74	One-Pot Synthesis of CoS ₂ Merged in Polymeric Carbon Nitride Films for Photoelectrochemical Water Splitting.. <i>ChemSusChem</i> , 2022 ,	8.3	4
73	Carbon-coated ZnFe ₂ O ₄ nanoparticles as an efficient, robust and recyclable catalyst for photocatalytic ozonation of organic pollutants. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107419	6.8	1
72	Tailored poly-heptazine units in carbon nitride for activating peroxymonosulfate to degrade organic contaminants with visible light. <i>Applied Catalysis B: Environmental</i> , 2022 , 311, 121341	21.8	6
71	Unveiling the charge transfer dynamics steered by built-in electric fields in BiOBr photocatalysts.. <i>Nature Communications</i> , 2022 , 13, 2230	17.4	8
70	The Hole-Tunneling Heterojunction of Hematite-Based Photoanodes Accelerates Photosynthetic Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16009-16018	16.4	8
69	The Hole-Tunneling Heterojunction of Hematite-Based Photoanodes Accelerates Photosynthetic Reaction. <i>Angewandte Chemie</i> , 2021 , 133, 16145-16154	3.6	0
68	An ultrathin TiO ₂ interfacial layer enhancing the performance of an FeVO ₄ photoanode for water splitting. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 261-266	5.8	3
67	Well-defined CoS cages enable the separation of photoexcited charges to promote visible-light CO reduction. <i>Nanoscale</i> , 2021 , 13, 18070-18076	7.7	13
66	Photocatalytic H ₂ evolution integrated with selective amines oxidation promoted by NiS ₂ decorated CdS nanosheets. <i>Journal of Catalysis</i> , 2021 , 400, 347-354	7.3	13
65	On-Surface Polymerization of In-Plane Highly Ordered Carbon Nitride Nanosheets toward Photocatalytic Mineralization of Mercaptan Gas. <i>Advanced Materials</i> , 2021 , 33, e2101466	24	25
64	Efficient degradation of tetracycline hydrochloride by photocatalytic ozonation over BiWO ₄ . <i>Chemosphere</i> , 2021 , 283, 131256	8.4	18
63	Photocatalytic activation of peroxymonosulfate by carbon quantum dots functionalized carbon nitride for efficient degradation of bisphenol A under visible-light irradiation. <i>Chemical Engineering Journal</i> , 2021 , 424, 130296	14.7	26
62	Photocatalytic hydroxylation of benzene to phenol over organosilane-functionalized FeVO ₄ nanorods. <i>Catalysis Science and Technology</i> , 2021 , 11, 5931-5937	5.5	4
61	All-solid-state direct Z-scheme NiTiO ₃ /Cd _{0.5} Zn _{0.5} S heterostructures for photocatalytic hydrogen evolution with visible light. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10270-10276	13	43

60	Fabrication of hierarchical Co ₃ O ₄ @CdIn ₂ S ₄ p-n heterojunction photocatalysts for improved CO ₂ reduction with visible light. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7177-7183	13	87
59	Direct Z-scheme ZnIn ₂ S ₄ /LaNiO ₃ nanohybrid with enhanced photocatalytic performance for H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 4113-4121	6.7	37
58	N-Rich Carbon Catalysts with Economic Feasibility for the Selective Oxidation of Hydrogen Sulfide to Sulfur. <i>Environmental Science & Technology</i> , 2020 , 54, 12621-12630	10.3	7
57	Selective Hydroxylation of Benzene to Phenol over Fe Nanoparticles Encapsulated within N-Doped Carbon Shells. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9192-9199	5.6	14
56	Photodeposited CoO as highly active phases to boost water oxidation on BiVO ₄ /WO ₃ photoanode. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 25652-25661	6.7	14
55	Magnetic Hollow Spheres Assembled from Graphene-Encapsulated Nickel Nanoparticles for Efficient Photocatalytic CO ₂ Reduction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7670-7678	6.1	44
54	MOF-derived hierarchical hollow spheres composed of carbon-confined Ni nanoparticles for efficient CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2019 , 9, 731-738	5.5	56
53	Nanoconfined Growth of Carbon-Encapsulated Cobalts as Cocatalysts for Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14023-14030	8.3	14
52	LiCl as Phase-Transfer Catalysts to Synthesize Thin Co P Nanosheets for Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2019 , 12, 1911-1915	8.3	13
51	Spinel-Type Mixed Metal Sulfide NiCo ₂ S ₄ for Efficient Photocatalytic Reduction of CO ₂ with Visible Light. <i>ChemCatChem</i> , 2019 , 11, 5513-5518	5.2	13
50	Branch-like ZnS/DETA/CdS hierarchical heterostructures as an efficient photocatalyst for visible light CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26877-26883	13	57
49	Enhanced Photocatalytic Ozonation of Phenol by Ag/ZnO Nanocomposites. <i>Catalysts</i> , 2019 , 9, 1006	4	11
48	Amorphous Ta ₂ O _x N _y -wrapped TiO ₂ rutile nanorods for enhanced solar photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 481-489	21.8	65
47	Gold plasmon-induced photocatalytic dehydrogenative coupling of methane to ethane on polar oxide surfaces. <i>Energy and Environmental Science</i> , 2018 , 11, 294-298	35.4	124
46	Reduced Graphene Oxide-Cadmium Sulfide Nanorods Decorated with Silver Nanoparticles for Efficient Photocatalytic Reduction Carbon Dioxide Under Visible Light. <i>ChemCatChem</i> , 2018 , 10, 1627-1634	5.3	55
45	Enhanced photocatalytic ozonation degradation of organic pollutants by ZnO modified TiO ₂ nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 223-234	21.8	159
44	Perovskite Oxide LaNiO ₃ Nanoparticles for Boosting H ₂ Evolution over Commercial CdS with Visible Light. <i>Chemistry - A European Journal</i> , 2018 , 24, 18512-18517	4.8	51
43	Enhanced visible light photocatalysis of TiO ₂ by Co-modification with Eu and Au nanoparticles. <i>Solid State Sciences</i> , 2018 , 83, 181-187	3.4	23

42	Photocatalytic CO ₂ reduction promoted by uniform perovskite hydroxide CoSn(OH) ₆ nanocubes. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 1009-1016	21.8	75
41	Bioinspired cobalt cubanes with tunable redox potentials for photocatalytic water oxidation and CO reduction. <i>Beilstein Journal of Organic Chemistry</i> , 2018 , 14, 2331-2339	2.5	1
40	Assembly of protonated mesoporous carbon nitrides with co-catalytic [MoS] clusters for photocatalytic hydrogen production. <i>Chemical Communications</i> , 2017 , 53, 13221-13224	5.8	33
39	Efficient photoelectrochemical hydrogen production over p-Si nanowire arrays coupled with molybdenum-sulfur clusters. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2832-2838	6.7	13
38	Enhanced selective photocatalytic CO ₂ reduction into CO over Ag/CdS nanocomposites under visible light. <i>Applied Surface Science</i> , 2017 , 391, 572-579	6.7	82
37	Layering MoS ₂ on soft hollow g-C ₃ N ₄ nanostructures for photocatalytic hydrogen evolution. <i>Applied Catalysis A: General</i> , 2016 , 521, 2-8	5.1	106
36	Microwave-assisted fabrication of porous hematite photoanodes for efficient solar water splitting. <i>Chemical Communications</i> , 2016 , 52, 6888-91	5.8	29
35	3D arrays of molybdenum sulphide nanosheets on Mo meshes: Efficient electrocatalysts for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2015 , 174, 653-659	6.7	28
34	Photocatalytic reduction of CO ₂ by graphitic carbon nitride polymers derived from urea and barbituric acid. <i>Applied Catalysis B: Environmental</i> , 2015 , 179, 1-8	21.8	287
33	NaF-assisted hydrothermal synthesis of Ti-doped hematite nanocubes with enhanced photoelectrochemical activity for water splitting. <i>Applied Surface Science</i> , 2015 , 359, 805-811	6.7	25
32	Development of a stable MnCo ₂ O ₄ cocatalyst for photocatalytic CO ₂ reduction with visible light. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4327-35	9.5	212
31	Cobalt sulfide modified graphitic carbon nitride semiconductor for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11873-11879	6.7	76
30	Water oxidation electrocatalysis by a zeolitic imidazolate framework. <i>Nanoscale</i> , 2014 , 6, 9930-4	7.7	128
29	Photocatalytic hydrogen production over carbon nitride loaded with WS ₂ as cocatalyst under visible light. <i>Applied Catalysis B: Environmental</i> , 2014 , 156-157, 122-127	21.8	165
28	Integration of [(Co(bpy)) ³⁺] electron mediator with heterogeneous photocatalysts for CO ₂ conversion. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2468-74	4.5	30
27	Facile synthesis of defect-mediated TiO ₂ with enhanced visible light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10099	13	82
26	Layered nanojunctions for hydrogen-evolution catalysis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3621-5	16.4	713
25	Ionic Liquid Co-catalyzed Artificial Photosynthesis of CO. <i>Scientific Reports</i> , 2013 , 3,	4.9	57

24	Layered Nanojunctions for Hydrogen-Evolution Catalysis. <i>Angewandte Chemie</i> , 2013 , 125, 3709-3713	3.6	99
23	Efficient visible-light-induced photocatalytic reduction of 4-nitroaniline to p-phenylenediamine over nanocrystalline PbBi ₂ Nb ₂ O ₉ . <i>Journal of Catalysis</i> , 2012 , 290, 13-17	7.3	59
22	Photocatalytic oxidation of water by polymeric carbon nitride nanohybrids made of sustainable elements. <i>Chemical Science</i> , 2012 , 3, 443-446	9.4	232
21	Photoelectrocatalysis and electrocatalysis on silicon electrodes decorated with cubane-like clusters. <i>Journal of Photonics for Energy</i> , 2012 , 2, 026001	1.2	16
20	Photocatalytic methane decomposition over vertically aligned transparent TiO ₂ nanotube arrays. <i>Chemical Communications</i> , 2011 , 47, 2613-5	5.8	37
19	Bioinspired molecular co-catalysts bonded to a silicon photocathode for solar hydrogen evolution. <i>Nature Materials</i> , 2011 , 10, 434-8	27	556
18	A comparative study of two techniques for determining photocatalytic activity of nitrogen doped TiO ₂ nanotubes under visible light irradiation: Photocatalytic reduction of dye and photocatalytic oxidation of organic molecules. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 222, 258-262	4.7	32
17	Effects of sintering temperature on physicochemical properties and photocatalytic activity of titanate nanotubes modified with sulfuric acid. <i>Powder Technology</i> , 2011 , 214, 451-457	5.2	13
16	Bio-inspired co-catalysts bonded to a silicon photocathode for solar hydrogen evolution 2011 ,		1
15	Controlled Directional Growth of TiO ₂ Nanotubes. <i>Journal of the Electrochemical Society</i> , 2010 , 157, E69	3.9	14
14	Quantitative Measurements of Photocatalytic CO-Oxidation as a Function of Light Intensity and Wavelength over TiO ₂ Nanotube Thin Films in Reactors. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11162-11168	3.8	22
13	Synthesis, characterization and photocatalytic activity of ZnGa ₂ O ₄ nanostructures. <i>Powder Technology</i> , 2010 , 203, 440-446	5.2	56
12	Photocatalytic decomposition of benzene by porous nanocrystalline ZnGa ₂ O ₄ with a high surface area. <i>Environmental Science & Technology</i> , 2009 , 43, 5947-51	10.3	47
11	Polymer semiconductors for artificial photosynthesis: hydrogen evolution by mesoporous graphitic carbon nitride with visible light. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1680-1	16.4	1418
10	The effect of postnitridation annealing on the surface property and photocatalytic performance of N-doped TiO ₂ under visible light irradiation. <i>Journal of Catalysis</i> , 2008 , 255, 59-67	7.3	172
9	Degradation of benzene over a zinc germanate photocatalyst under ambient conditions. <i>Environmental Science & Technology</i> , 2008 , 42, 7387-91	10.3	117
8	Synthesis and photocatalytic activity of Zn ₂ GeO ₄ nanorods for the degradation of organic pollutants in water. <i>ChemSusChem</i> , 2008 , 1, 1011-9	8.3	94
7	Synthesis of functionalized mesoporous TiO ₂ molecular sieves and their application in photocatalysis. <i>Microporous and Mesoporous Materials</i> , 2008 , 110, 543-552	5.3	29

6	Photocatalytic performance of TiO_2 , and $\beta\text{-Ga}_2\text{O}_3$ for the destruction of volatile aromatic pollutants in air. <i>Journal of Catalysis</i> , 2007 , 250, 12-18	7.3	233
5	Study of relationship between surface transient photoconductivity and liquid-phase photocatalytic activity of titanium dioxide. <i>Materials Chemistry and Physics</i> , 2007 , 102, 53-59	4.4	20
4	Efficient decomposition of benzene over a beta-Ga ₂ O ₃ photocatalyst under ambient conditions. <i>Environmental Science & Technology</i> , 2006 , 40, 5799-803	10.3	162
3	Photocatalytic activity of a hierarchically macro/mesoporous titania. <i>Langmuir</i> , 2005 , 21, 2552-9	4	414
2	A Highly Crystallized Hexagonal BCN Photocatalyst with Superior Anticorrosion Properties. <i>Advanced Optical Materials</i> , 2200282	8.1	
1	Facile fabrication of oxygen-doped carbon nitride with enhanced visible-light photocatalytic degradation of methyl mercaptan. <i>Research on Chemical Intermediates</i> , 1	2.8	