

# Yidong Hou

## List of Publications by Citations

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8,106  
ext. citations

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L-index

#	Paper	IF	Citations
77	Polymer semiconductors for artificial photosynthesis: hydrogen evolution by mesoporous graphitic carbon nitride with visible light. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1680-1	16.4	1418
76	Layered nanojunctions for hydrogen-evolution catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 3621-5	16.4	713
75	Bioinspired molecular co-catalysts bonded to a silicon photocathode for solar hydrogen evolution. <i>Nature Materials</i> , <b>2011</b> , 10, 434-8	27	556
74	Photocatalytic activity of a hierarchically macro/mesoporous titania. <i>Langmuir</i> , <b>2005</b> , 21, 2552-9	4	414
73	Photocatalytic reduction of CO <sub>2</sub> by graphitic carbon nitride polymers derived from urea and barbituric acid. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 179, 1-8	21.8	287
72	Photocatalytic performance of $\text{TiO}_2$ , $\text{ZnO}$ , and $\beta\text{-Ga}_2\text{O}_3$ for the destruction of volatile aromatic pollutants in air. <i>Journal of Catalysis</i> , <b>2007</b> , 250, 12-18	7.3	233
71	Photocatalytic oxidation of water by polymeric carbon nitride nanohybrids made of sustainable elements. <i>Chemical Science</i> , <b>2012</b> , 3, 443-446	9.4	232
70	Development of a stable MnCo <sub>2</sub> O <sub>4</sub> cocatalyst for photocatalytic CO <sub>2</sub> reduction with visible light. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 4327-35	9.5	212
69	The effect of postnitridation annealing on the surface property and photocatalytic performance of N-doped TiO <sub>2</sub> under visible light irradiation. <i>Journal of Catalysis</i> , <b>2008</b> , 255, 59-67	7.3	172
68	Photocatalytic hydrogen production over carbon nitride loaded with WS <sub>2</sub> as cocatalyst under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 156-157, 122-127	21.8	165
67	Efficient decomposition of benzene over a beta-Ga <sub>2</sub> O <sub>3</sub> photocatalyst under ambient conditions. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 5799-803	10.3	162
66	Enhanced photocatalytic ozonation degradation of organic pollutants by ZnO modified TiO <sub>2</sub> nanocomposites. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 223-234	21.8	159
65	Water oxidation electrocatalysis by a zeolitic imidazolate framework. <i>Nanoscale</i> , <b>2014</b> , 6, 9930-4	7.7	128
64	Gold plasmon-induced photocatalytic dehydrogenative coupling of methane to ethane on polar oxide surfaces. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 294-298	35.4	124
63	Degradation of benzene over a zinc germanate photocatalyst under ambient conditions. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 7387-91	10.3	117
62	Layering MoS <sub>2</sub> on soft hollow g-C <sub>3</sub> N <sub>4</sub> nanostructures for photocatalytic hydrogen evolution. <i>Applied Catalysis A: General</i> , <b>2016</b> , 521, 2-8	5.1	106
61	Layered Nanojunctions for Hydrogen-Evolution Catalysis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 3709-3713	3.6	99

60	Synthesis and photocatalytic activity of Zn <sub>2</sub> GeO <sub>4</sub> nanorods for the degradation of organic pollutants in water. <i>ChemSusChem</i> , <b>2008</b> , 1, 1011-9	8.3	94
59	Fabrication of hierarchical Co <sub>3</sub> O <sub>4</sub> @CdIn <sub>2</sub> S <sub>4</sub> p-n heterojunction photocatalysts for improved CO <sub>2</sub> reduction with visible light. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7177-7183	13	87
58	Facile synthesis of defect-mediated TiO <sub>2</sub> with enhanced visible light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10099	13	82
57	Enhanced selective photocatalytic CO <sub>2</sub> reduction into CO over Ag/CdS nanocomposites under visible light. <i>Applied Surface Science</i> , <b>2017</b> , 391, 572-579	6.7	82
56	Cobalt sulfide modified graphitic carbon nitride semiconductor for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 11873-11879	6.7	76
55	Photocatalytic CO <sub>2</sub> reduction promoted by uniform perovskite hydroxide CoSn(OH) <sub>6</sub> nanocubes. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 224, 1009-1016	21.8	75
54	Amorphous Ta <sub>2</sub> O <sub>x</sub> N <sub>y</sub> -enwrapped TiO <sub>2</sub> rutile nanorods for enhanced solar photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 243, 481-489	21.8	65
53	Efficient visible-light-induced photocatalytic reduction of 4-nitroaniline to p-phenylenediamine over nanocrystalline PbBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> . <i>Journal of Catalysis</i> , <b>2012</b> , 290, 13-17	7.3	59
52	Ionic Liquid Co-catalyzed Artificial Photosynthesis of CO. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	57
51	Branch-like ZnS/DETA/CdS hierarchical heterostructures as an efficient photocatalyst for visible light CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26877-26883	13	57
50	MOF-derived hierarchical hollow spheres composed of carbon-confined Ni nanoparticles for efficient CO <sub>2</sub> methanation. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 731-738	5.5	56
49	Synthesis, characterization and photocatalytic activity of $\beta$ -Ga <sub>2</sub> O <sub>3</sub> nanostructures. <i>Powder Technology</i> , <b>2010</b> , 203, 440-446	5.2	56
48	Reduced Graphene Oxide-Cadmium Sulfide Nanorods Decorated with Silver Nanoparticles for Efficient Photocatalytic Reduction Carbon Dioxide Under Visible Light. <i>ChemCatChem</i> , <b>2018</b> , 10, 1627-1634	5.2	55
47	Perovskite Oxide LaNiO <sub>3</sub> Nanoparticles for Boosting H <sub>2</sub> Evolution over Commercial CdS with Visible Light. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 18512-18517	4.8	51
46	Photocatalytic decomposition of benzene by porous nanocrystalline ZnGa <sub>2</sub> O <sub>4</sub> with a high surface area. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 5947-51	10.3	47
45	Magnetic Hollow Spheres Assembled from Graphene-Encapsulated Nickel Nanoparticles for Efficient Photocatalytic CO <sub>2</sub> Reduction. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7670-7678	6.1	44
44	All-solid-state direct Z-scheme NiTiO <sub>3</sub> /Cd <sub>0.5</sub> Zn <sub>0.5</sub> S heterostructures for photocatalytic hydrogen evolution with visible light. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10270-10276	13	43
43	Photocatalytic methane decomposition over vertically aligned transparent TiO <sub>2</sub> nanotube arrays. <i>Chemical Communications</i> , <b>2011</b> , 47, 2613-5	5.8	37

42	Direct Z-scheme ZnIn <sub>2</sub> S <sub>4</sub> /LaNiO <sub>3</sub> nano hybrid with enhanced photocatalytic performance for H <sub>2</sub> evolution. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 4113-4121	6.7	37
41	Assembly of protonated mesoporous carbon nitrides with co-catalytic [MoS] clusters for photocatalytic hydrogen production. <i>Chemical Communications</i> , <b>2017</b> , 53, 13221-13224	5.8	33
40	A comparative study of two techniques for determining photocatalytic activity of nitrogen doped TiO <sub>2</sub> nanotubes under visible light irradiation: Photocatalytic reduction of dye and photocatalytic oxidation of organic molecules. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 222, 258-262	4.7	32
39	Integration of [(Co(bpy))] <sup>3+</sup> electron mediator with heterogeneous photocatalysts for CO <sub>2</sub> conversion. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 2468-74	4.5	30
38	Synthesis of functionalized mesoporous TiO <sub>2</sub> molecular sieves and their application in photocatalysis. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 110, 543-552	5.3	29
37	Microwave-assisted fabrication of porous hematite photoanodes for efficient solar water splitting. <i>Chemical Communications</i> , <b>2016</b> , 52, 6888-91	5.8	29
36	3D arrays of molybdenum sulphide nanosheets on Mo meshes: Efficient electrocatalysts for hydrogen evolution reaction. <i>Electrochimica Acta</i> , <b>2015</b> , 174, 653-659	6.7	28
35	Semiconducting Polymers for Oxygen Evolution Reaction under Light Illumination.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	27
34	Photocatalytic activation of peroxydisulfate by carbon quantum dots functionalized carbon nitride for efficient degradation of bisphenol A under visible-light irradiation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130296	14.7	26
33	NaF-assisted hydrothermal synthesis of Ti-doped hematite nanocubes with enhanced photoelectrochemical activity for water splitting. <i>Applied Surface Science</i> , <b>2015</b> , 359, 805-811	6.7	25
32	On-Surface Polymerization of In-Plane Highly Ordered Carbon Nitride Nanosheets toward Photocatalytic Mineralization of Mercaptan Gas. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101466	24	25
31	Enhanced visible light photocatalysis of TiO <sub>2</sub> by Co-modification with Eu and Au nanoparticles. <i>Solid State Sciences</i> , <b>2018</b> , 83, 181-187	3.4	23
30	Quantitative Measurements of Photocatalytic CO-Oxidation as a Function of Light Intensity and Wavelength over TiO <sub>2</sub> Nanotube Thin Films in Reactors. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11162-11168	3.8	22
29	Study of relationship between surface transient photoconductivity and liquid-phase photocatalytic activity of titanium dioxide. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 102, 53-59	4.4	20
28	Efficient degradation of tetracycline hydrochloride by photocatalytic ozonation over BiWO <sub>4</sub> . <i>Chemosphere</i> , <b>2021</b> , 283, 131256	8.4	18
27	Photoelectrocatalysis and electrocatalysis on silicon electrodes decorated with cubane-like clusters. <i>Journal of Photonics for Energy</i> , <b>2012</b> , 2, 026001	1.2	16
26	Photodeposited CoO as highly active phases to boost water oxidation on BiVO <sub>4</sub> /WO <sub>3</sub> photoanode. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 25652-25661	6.7	14
25	Nanoconfined Growth of Carbon-Encapsulated Cobalts as Cocatalysts for Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14023-14030	8.3	14

24	Controlled Directional Growth of TiO <sub>2</sub> Nanotubes. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, E69	3.9	14
23	Selective Hydroxylation of Benzene to Phenol over Fe Nanoparticles Encapsulated within N-Doped Carbon Shells. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 9192-9199	5.6	14
22	LiCl as Phase-Transfer Catalysts to Synthesize Thin Co P Nanosheets for Oxygen Evolution Reaction. <i>ChemSusChem</i> , <b>2019</b> , 12, 1911-1915	8.3	13
21	Spinel-Type Mixed Metal Sulfide NiCo <sub>2</sub> S <sub>4</sub> for Efficient Photocatalytic Reduction of CO <sub>2</sub> with Visible Light. <i>ChemCatChem</i> , <b>2019</b> , 11, 5513-5518	5.2	13
20	Efficient photoelectrochemical hydrogen production over p-Si nanowire arrays coupled with molybdenum-sulfur clusters. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 2832-2838	6.7	13
19	Effects of sintering temperature on physicochemical properties and photocatalytic activity of titanate nanotubes modified with sulfuric acid. <i>Powder Technology</i> , <b>2011</b> , 214, 451-457	5.2	13
18	Well-defined CoS cages enable the separation of photoexcited charges to promote visible-light CO reduction. <i>Nanoscale</i> , <b>2021</b> , 13, 18070-18076	7.7	13
17	Photocatalytic H <sub>2</sub> evolution integrated with selective amines oxidation promoted by NiS <sub>2</sub> decorated CdS nanosheets. <i>Journal of Catalysis</i> , <b>2021</b> , 400, 347-354	7.3	13
16	Enhanced Photocatalytic Ozonation of Phenol by Ag/ZnO Nanocomposites. <i>Catalysts</i> , <b>2019</b> , 9, 1006	4	11
15	The Hole-Tunneling Heterojunction of Hematite-Based Photoanodes Accelerates Photosynthetic Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 16009-16018	16.4	8
14	Unveiling the charge transfer dynamics steered by built-in electric fields in BiOBr photocatalysts.. <i>Nature Communications</i> , <b>2022</b> , 13, 2230	17.4	8
13	N-Rich Carbon Catalysts with Economic Feasibility for the Selective Oxidation of Hydrogen Sulfide to Sulfur. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12621-12630	10.3	7
12	Tailored poly-heptazine units in carbon nitride for activating peroxymonosulfate to degrade organic contaminants with visible light. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 311, 121341	21.8	6
11	Unique functionalities of carbon shells coating on ZnFe <sub>2</sub> O <sub>4</sub> for enhanced photocatalytic hydroxylation of benzene to phenol. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 304, 120999	21.8	5
10	Photocatalytic hydroxylation of benzene to phenol over organosilane-functionalized FeVO <sub>4</sub> nanorods. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 5931-5937	5.5	4
9	One-Pot Synthesis of CoS <sub>2</sub> Merged in Polymeric Carbon Nitride Films for Photoelectrochemical Water Splitting.. <i>ChemSusChem</i> , <b>2022</b> ,	8.3	4
8	An ultrathin TiO <sub>2</sub> interfacial layer enhancing the performance of an FeVO <sub>4</sub> photoanode for water splitting. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 261-266	5.8	3
7	Bio-inspired co-catalysts bonded to a silicon photocathode for solar hydrogen evolution <b>2011</b> ,		1

6	Carbon encapsulated bimetallic FeCo nanoalloys for one-step hydroxylation of benzene to phenol. <i>Applied Catalysis A: General</i> , <b>2022</b> , 633, 118499	5.1	1
5	Bioinspired cobalt cubanes with tunable redox potentials for photocatalytic water oxidation and CO reduction. <i>Beilstein Journal of Organic Chemistry</i> , <b>2018</b> , 14, 2331-2339	2.5	1
4	Carbon-coated ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles as an efficient, robust and recyclable catalyst for photocatalytic ozonation of organic pollutants. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107419	6.8	1
3	The Hole-Tunneling Heterojunction of Hematite-Based Photoanodes Accelerates Photosynthetic Reaction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16145-16154	3.6	0
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	