

# Qiang Hao

## List of Publications by Year in descending order

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61  
papers

3,130  
citations

186265

28  
h-index

161849

54  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of CN75/NH <sub>2</sub> -MIL-53(Fe) p-n heterojunction with wide spectral response for efficiently photocatalytic Cr(VI) reduction. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161994.	5.5	63
2	Small molecule $\pi$ -conjugated electron acceptor for highly enhanced photocatalytic nitrogen reduction of BiOBr. <i>Journal of Materials Science and Technology</i> , 2022, 109, 276-281.	10.7	18
3	Boosted selective catalytic nitrate reduction to ammonia on carbon/bismuth/bismuth oxide photocatalysts. <i>Journal of Cleaner Production</i> , 2022, 331, 129975.	9.3	21
4	Catalytic reduction of carbon dioxide over two-dimensional boron monolayer. <i>Journal of Materials Science and Technology</i> , 2022, 110, 96-102.	10.7	11
5	Nanospace Engineering of Metal-Organic Frameworks for Heterogeneous Catalysis. <i>ChemNanoMat</i> , 2022, 8, .	2.8	27
6	Recent advances in photocatalytic nitrogen fixation and beyond. <i>Nanoscale</i> , 2022, 14, 2990-2997.	5.6	55
7	Enriched surface oxygen vacancies of BiOCl boosting efficient charge separation, whole visible-light absorption, and photo to thermal conversion. <i>Applied Surface Science</i> , 2022, 585, 152656.	6.1	26
8	Tremendous boost in the photocatalytic properties of g-C <sub>3</sub> N <sub>4</sub> : regulation from polymerization kinetics to crystal structure engineering. <i>CrystEngComm</i> , 2022, 24, 2023-2035.	2.6	3
9	High-performance photocatalytic decomposition of PFOA by BiOX/TiO <sub>2</sub> heterojunctions: Self-induced inner electric fields and band alignment. <i>Journal of Hazardous Materials</i> , 2022, 430, 128195.	12.4	43
10	Highly Sensitive, Fast Response and Selective Glucose Detection Based on CuO/Nitrogen-doped Carbon Non-enzymatic Sensor. <i>Electroanalysis</i> , 2022, 34, 1725-1734.	2.9	5
11	Efficient degradation of PPCPs by Mo <sub>1-x</sub> S <sub>2-y</sub> with S vacancy at phase-junction: Promoted by innergenerate-H <sub>2</sub> O <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121302.	20.2	27
12	Perylene diimide growth on both sides of carbon nanotubes for remarkably boosted photocatalytic degradation of diclofenac. <i>Journal of Hazardous Materials</i> , 2022, 435, 128992.	12.4	17
13	Emerging alternative for artificial ammonia synthesis through catalytic nitrate reduction. <i>Journal of Materials Science and Technology</i> , 2021, 77, 163-168.	10.7	66
14	Ultralight biodegradable 3D-g-C <sub>3</sub> N <sub>4</sub> aerogel for advanced oxidation water treatment driven by oxygen delivery channels and triphase interfaces. <i>Journal of Cleaner Production</i> , 2021, 288, 125091.	9.3	40
15	Phosphorus removal performance of microbial-enhanced constructed wetlands that treat saline wastewater. <i>Journal of Cleaner Production</i> , 2021, 288, 125119.	9.3	25
16	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. <i>Chemical Society Reviews</i> , 2021, 50, 10116-10211.	38.1	140
17	High carrier separation efficiency for a defective g-C <sub>3</sub> N <sub>4</sub> with polarization effect and defect engineering: mechanism, properties and prospects. <i>Catalysis Science and Technology</i> , 2021, 11, 5432-5447.	4.1	19
18	Mechanism of surface and interface engineering under diverse dimensional combinations: the construction of efficient nanostructured MXene-based photocatalysts. <i>Catalysis Science and Technology</i> , 2021, 11, 5028-5049.	4.1	11

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19	Microwave-initiated recombination of hydrogen bonds of a perylene diimide supramolecule for PPCP photodegradation. <i>Catalysis Science and Technology</i> , 2021, 11, 3787-3798.	4.1	6
20	Facile preparation of hydrophilic $\text{In}_2\text{O}_3$ nanospheres and rods with improved performances for photocatalytic degradation of PFOA. <i>Environmental Science: Nano</i> , 2021, 8, 1010-1018.	4.3	22
21	Inner cover 2 - Derek Hao et al.. <i>Materials Today</i> , 2021, 46, iii.	14.2	0
22	Emerging artificial nitrogen cycle processes through novel electrochemical and photochemical synthesis. <i>Materials Today</i> , 2021, 46, 212-233.	14.2	104
23	A facile oxygen vacancy and bandgap control of $\text{Bi}(\text{OH})\text{SO}_4 \cdot \text{H}_2\text{O}$ for achieving enhanced photocatalytic remediation. <i>Journal of Environmental Management</i> , 2021, 294, 113046.	7.8	7
24	A reusable, separation-free and biodegradable calcium alginate/g-C <sub>3</sub> N <sub>4</sub> microsphere for sustainable photocatalytic wastewater treatment. <i>Journal of Cleaner Production</i> , 2021, 314, 128033.	9.3	41
25	A Green Synthesis of Ru Modified g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Enhanced Photocatalytic Ammonia Synthesis. <i>Energy Material Advances</i> , 2021, 2021, .	11.0	36
26	$\text{Fe}^{3+}$ Promoted the Photocatalytic Defluorination of Perfluorooctanoic Acid (PFOA) over $\text{In}_2\text{O}_3$ . <i>ACS ES&amp;T Water</i> , 2021, 1, 2431-2439.	4.6	11
27	Fertiliser recovery from source-separated urine via membrane bioreactor and heat localized solar evaporation. <i>Water Research</i> , 2021, 207, 117810.	11.3	16
28	Natural diatomite mediated continuous anaerobic sludge digestion: Performance, modelling and mechanisms. <i>Journal of Cleaner Production</i> , 2021, 329, 129750.	9.3	6
29	How does synthetic musks affect methane production from the anaerobic digestion of waste activated sludge?. <i>Science of the Total Environment</i> , 2020, 713, 136594.	8.0	8
30	Catalytic reduction of nitrogen to produce ammonia by bismuth-based catalysts: state of the art and future prospects. <i>Materials Horizons</i> , 2020, 7, 1014-1029.	12.2	134
31	Accelerated separation of photogenerated charge carriers and enhanced photocatalytic performance of g-C <sub>3</sub> N <sub>4</sub> by Bi <sub>2</sub> S <sub>3</sub> nanoparticles. <i>Chinese Journal of Catalysis</i> , 2020, 41, 249-258.	14.0	91
32	Preparation of BiPO <sub>4</sub> /graphene photoelectrode and its photoelectrocatalytic performance. <i>Chinese Journal of Catalysis</i> , 2020, 41, 302-311.	14.0	16
33	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. <i>Nano Research</i> , 2020, 13, 18-37.	10.4	214
34	Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. <i>New Journal of Chemistry</i> , 2020, 44, 20651-20658.	2.8	55
35	Coupling iron pretreatment with a constructed wetland-microbial fuel cell to improve wastewater purification and bioelectricity generation. <i>Journal of Cleaner Production</i> , 2020, 276, 123301.	9.3	25
36	Optimizing the Carbon Dioxide Reduction Pathway through Surface Modification by Halogenation. <i>ChemSusChem</i> , 2020, 13, 5638-5646.	6.8	17

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37	Preparation of a microsphere SiO <sub>2</sub> /TiO <sub>2</sub> composite pigment: The mechanism of improving pigment properties by SiO <sub>2</sub> . <i>Ceramics International</i> , 2020, 46, 22944-22953.	4.8	14
38	Dominant Polar Surfaces of Colloidal Wurtzite Semiconductor Nanocrystals Enabled by Cation Exchange. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4990-4997.	4.6	8
39	Construction of SiO <sub>2</sub> -TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composite photocatalyst for hydrogen production and pollutant degradation: Insight into the effect of SiO <sub>2</sub> . <i>Chinese Chemical Letters</i> , 2020, 31, 2287-2294.	9.0	37
40	Defective crystal plane-oriented induced lattice polarization for the photocatalytic enhancement of ZnO. <i>CrystEngComm</i> , 2020, 22, 2709-2717.	2.6	16
41	Polystyrene nanoplastics reshape the anaerobic granular sludge for recovering methane from wastewater. <i>Water Research</i> , 2020, 182, 116041.	11.3	83
42	In-plane polarization induced by the hydrogen bonding and π-π stacking of functionalized PDI supramolecules for the efficient photocatalytic degradation of organic pollutants. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2673-2687.	5.9	24
43	Characterization of microbial community and resistance gene (CzcA) shifts in up-flow constructed wetlands-microbial fuel cell treating Zn (II) contaminated wastewater. <i>Bioresource Technology</i> , 2020, 302, 122867.	9.6	73
44	Surface defective g-C <sub>3</sub> N <sub>4</sub> /Cl with unique spongy structure by polarization effect for enhanced photocatalytic removal of organic pollutants. <i>Journal of Hazardous Materials</i> , 2020, 398, 122897.	12.4	55
45	Controllable design of nanoworm-like nickel sulfides for efficient electrochemical water splitting in alkaline media. <i>Materials Today Energy</i> , 2020, 18, 100573.	4.7	25
46	Bi <sub>2</sub> O <sub>3</sub> @Carbon Nanocomposites for Solar-Driven Photocatalytic Degradation of Chlorophenols. <i>ACS Applied Nano Materials</i> , 2019, 2, 2308-2316.	5.0	54
47	Enhanced separation of photogenerated charge carriers and catalytic properties of ZnO-MnO <sub>2</sub> composites by microwave and photothermal effect. <i>Journal of Alloys and Compounds</i> , 2019, 786, 418-427.	5.5	45
48	Construction of urchin-like ZnIn <sub>2</sub> S <sub>4</sub> -Au-TiO <sub>2</sub> heterostructure with enhanced activity for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 260-267.	20.2	177
49	Insights into the surface-defect dependence of molecular oxygen activation over birnessite-type MnO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2018, 233, 184-193.	20.2	194
50	Photocatalyst Bi(OH)SO <sub>4</sub> · H <sub>2</sub> O with High Photocatalytic Performance. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 2075-2080.	0.6	3
51	A honeycomb multilevel structure Bi <sub>2</sub> O <sub>3</sub> with highly efficient catalytic activity driven by bias voltage and oxygen defect. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 442-448.	20.2	84
52	A high-performance Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> SiO <sub>5</sub> p-n heterojunction photocatalyst induced by phase transition of Bi <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , 2018, 237, 59-67.	20.2	252
53	A separation-free polyacrylamide/bentonite/graphitic carbon nitride hydrogel with excellent performance in water treatment. <i>Journal of Cleaner Production</i> , 2018, 197, 1222-1230.	9.3	68
54	Facile fabrication of heterostructured bismuth titanate nanocomposites: The effects of composition and band gap structure on the photocatalytic activity performance. <i>Catalysis Today</i> , 2017, 297, 255-263.	4.4	25

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55	Enhanced photochemical oxidation ability of carbon nitride by $\pi$ - $\pi$ stacking interactions with graphene. Chinese Journal of Catalysis, 2017, 38, 278-286.	14.0	109
56	Highly Performance Core-Shell TiO <sub>2</sub> (B)/anatase Homojunction Nanobelts with Active Cobalt phosphide Cocatalyst for Hydrogen Production. Scientific Reports, 2017, 7, 14594.	3.3	23
57	One-pot synthesis of C/Bi/Bi <sub>2</sub> O <sub>3</sub> composite with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2017, 219, 63-72.	20.2	150
58	A highly efficient g-C <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> heterojunction: the role of SiO <sub>2</sub> in the enhancement of visible light photocatalytic activity. Physical Chemistry Chemical Physics, 2016, 18, 31410-31418.	2.8	109
59	Influence of phase structure and morphology on the photocatalytic activity of bismuth molybdates. CrystEngComm, 2016, 18, 1976-1986.	2.6	75
60	Perylene Diimide Growth on Both Sides of Carbon Nanotubes for Remarkably Boosted Photocatalytic Degradation of Diclofenac. SSRN Electronic Journal, 0, , .	0.4	0
61	A readily synthesized bismuth oxyiodide/attapulgate for the photodegradation of tetracycline under visible light irradiation. CrystEngComm, 0, , .	2.6	1