

Qiang Hao

List of Publications by Year in descending order

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Version: 2024-02-01

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	A high-performance Bi ₂ O ₃ /Bi ₂ SiO ₅ p-n heterojunction photocatalyst induced by phase transition of Bi ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2018, 237, 59-67.	20.2	252
2	Graphitic carbon nitride with different dimensionalities for energy and environmental applications. <i>Nano Research</i> , 2020, 13, 18-37.	10.4	214
3	Insights into the surface-defect dependence of molecular oxygen activation over birnessite-type MnO ₂ . <i>Applied Catalysis B: Environmental</i> , 2018, 233, 184-193.	20.2	194
4	Construction of urchin-like ZnIn ₂ S ₄ -Au-TiO ₂ heterostructure with enhanced activity for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 260-267.	20.2	177
5	One-pot synthesis of C/Bi/Bi ₂ O ₃ composite with enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 63-72.	20.2	150
6	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
7	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
8	A highly efficient g-C ₃ N ₄ /SiO ₂ heterojunction: the role of SiO ₂ in the enhancement of visible light photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31410-31418.	2.8	109
9	Enhanced photochemical oxidation ability of carbon nitride by π-π stacking interactions with graphene. <i>Chinese Journal of Catalysis</i> , 2017, 38, 278-286.	14.0	109
10	Emerging artificial nitrogen cycle processes through novel electrochemical and photochemical synthesis. <i>Materials Today</i> , 2021, 46, 212-233.	14.2	104
11	Accelerated separation of photogenerated charge carriers and enhanced photocatalytic performance of g-C ₃ N ₄ by Bi ₂ S ₃ nanoparticles. <i>Chinese Journal of Catalysis</i> , 2020, 41, 249-258.	14.0	91
12	A honeycomb multilevel structure Bi ₂ O ₃ 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
13	Polystyrene nanoplastics reshape the anaerobic granular sludge for recovering methane from wastewater. <i>Water Research</i> , 2020, 182, 116041.	11.3	83
14	Influence of phase structure and morphology on the photocatalytic activity of bismuth molybdates. <i>CrystEngComm</i> , 2016, 18, 1976-1986.	2.6	75
15	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
16	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
17	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
18	Fabrication of CN ₇₅ /NH ₂ -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

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19	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
20	Surface defective g-C ₃ N ₄ @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
21	Recent advances in photocatalytic nitrogen fixation and beyond. <i>Nanoscale</i> , 2022, 14, 2990-2997.	5.6	55
22	Bi ₂ O ₃ @Carbon Nanocomposites for Solar-Driven Photocatalytic Degradation of Chlorophenols. <i>ACS Applied Nano Materials</i> , 2019, 2, 2308-2316.	5.0	54
23	Enhanced separation of photogenerated charge carriers and catalytic properties of ZnO-MnO ₂ composites by microwave and photothermal effect. <i>Journal of Alloys and Compounds</i> , 2019, 786, 418-427.	5.5	45
24	High-performance photocatalytic decomposition of PFOA by BiOX/TiO ₂ heterojunctions: Self-induced inner electric fields and band alignment. <i>Journal of Hazardous Materials</i> , 2022, 430, 128195.	12.4	43
25	A reusable, separation-free and biodegradable calcium alginate/g-C ₃ N ₄ microsphere for sustainable photocatalytic wastewater treatment. <i>Journal of Cleaner Production</i> , 2021, 314, 128033.	9.3	41
26	Ultralight biodegradable 3D-g-C ₃ N ₄ 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
27	Construction of SiO ₂ -TiO ₂ /g-C ₃ N ₄ composite photocatalyst for hydrogen production and pollutant degradation: Insight into the effect of SiO ₂ . <i>Chinese Chemical Letters</i> , 2020, 31, 2287-2294.	9.0	37
28	A Green Synthesis of Ru Modified g-C ₃ N ₄ Nanosheets for Enhanced Photocatalytic Ammonia Synthesis. <i>Energy Material Advances</i> , 2021, 2021, .	11.0	36
29	Nanospace Engineering of Metal-Organic Frameworks for Heterogeneous Catalysis. <i>ChemNanoMat</i> , 2022, 8, .	2.8	27
30	Efficient degradation of PPCPs by Mo _{1-x} S _{2-y} with S vacancy at phase-junction: Promoted by innergenerate-H ₂ O ₂ . <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121302.	20.2	27
31	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
32	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
33	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
34	Phosphorus removal performance of microbial-enhanced constructed wetlands that treat saline wastewater. <i>Journal of Cleaner Production</i> , 2021, 288, 125119.	9.3	25
35	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
36	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

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37	Highly Performance Core-Shell TiO ₂ (B)/anatase Homojunction Nanobelts with Active Cobalt phosphide Cocatalyst for Hydrogen Production. <i>Scientific Reports</i> , 2017, 7, 14594.	3.3	23
38	Facile preparation of hydrophilic In ₂ 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
39	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
40	High carrier separation efficiency for a defective g-C ₃ N ₄ with polarization effect and defect engineering: mechanism, properties and prospects. <i>Catalysis Science and Technology</i> , 2021, 11, 5432-5447.	4.1	19
41	Small molecule π -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
42	Optimizing the Carbon Dioxide Reduction Pathway through Surface Modification by Halogenation. <i>ChemSusChem</i> , 2020, 13, 5638-5646.	6.8	17
43	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
44	Preparation of BiPO ₄ /graphene photoelectrode and its photoelectrocatalytic performance. <i>Chinese Journal of Catalysis</i> , 2020, 41, 302-311.	14.0	16
45	Defective crystal plane-oriented induced lattice polarization for the photocatalytic enhancement of ZnO. <i>CrystEngComm</i> , 2020, 22, 2709-2717.	2.6	16
46	Fertiliser recovery from source-separated urine via membrane bioreactor and heat localized solar evaporation. <i>Water Research</i> , 2021, 207, 117810.	11.3	16
47	Preparation of a microsphere SiO ₂ /TiO ₂ composite pigment: The mechanism of improving pigment properties by SiO ₂ . <i>Ceramics International</i> , 2020, 46, 22944-22953.	4.8	14
48	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
49	Fe ³⁺ Promoted the Photocatalytic Defluorination of Perfluorooctanoic Acid (PFOA) over In ₂ O ₃ . <i>ACS ES&T Water</i> , 2021, 1, 2431-2439.	4.6	11
50	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
51	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
52	Dominant Polar Surfaces of Colloidal α -Wurtzite Semiconductor Nanocrystals Enabled by Cation Exchange. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4990-4997.	4.6	8
53	A facile oxygen vacancy and bandgap control of Bi(OH)SO ₄ ·H ₂ O for achieving enhanced photocatalytic remediation. <i>Journal of Environmental Management</i> , 2021, 294, 113046.	7.8	7
54	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

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55	Natural diatomite mediated continuous anaerobic sludge digestion: Performance, modelling and mechanisms. <i>Journal of Cleaner Production</i> , 2021, 329, 129750.	9.3	6
56	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
57	Photocatalyst Bi(OH)SO ₄ · H ₂ O with High Photocatalytic Performance. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 2075-2080.	0.6	3
58	Tremendous boost in the photocatalytic properties of g-C ₃ N ₄ : regulation from polymerization kinetics to crystal structure engineering. <i>CrystEngComm</i> , 2022, 24, 2023-2035.	2.6	3
59	A readily synthesized bismuth oxyiodide/attapulgitite for the photodegradation of tetracycline under visible light irradiation. <i>CrystEngComm</i> , 0, , .	2.6	1
60	Inner cover 2 - Derek Hao et al.. <i>Materials Today</i> , 2021, 46, iii.	14.2	0
61	Perylene Diimide Growth on Both Sides of Carbon Nanotubes for Remarkably Boosted Photocatalytic Degradation of Diclofenac. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0