

Xiaoyong Wu

List of Publications by Year in descending order

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56
papers

4,794
citations

93792

39
h-index

169272

56
g-index

56
all docs

56
docs citations

56
times ranked

4520
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular-functionalized engineering of porous carbon nitride nanosheets for wide-spectrum responsive solar fuel generation. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1061-1070.	5.0	41
2	Self-assembled ultrathin closely bonded 2D/2D heterojunction for enhanced visible-light-induced photocatalytic oxidation and reaction mechanism insights. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2472-2481.	5.0	10
3	A novel Fe-rectorite composite catalyst synergetic photoinduced peroxymonosulfate activation for efficient degradation of antibiotics. <i>Chemosphere</i> , 2022, 289, 133211.	4.2	15
4	Selective CO ₂ photoreduction to CH ₄ mediated by dimension-matched 2D/2D Bi ₃ NbO ₇ /g-C ₃ N ₄ S-scheme heterojunction. <i>Chinese Journal of Catalysis</i> , 2022, 43, 246-254.	6.9	85
5	Unlocking bimetallic active sites via a desalination strategy for photocatalytic reduction of atmospheric carbon dioxide. <i>Nature Communications</i> , 2022, 13, 2146.	5.8	60
6	Efficient simultaneous removal of tetracycline hydrochloride and Cr(VI) through photothermal-assisted photocatalytic-Fenton-like processes with CuOx/β-Al ₂ O ₃ . <i>Journal of Colloid and Interface Science</i> , 2022, 622, 526-538.	5.0	12
7	S-scheme Sb ₂ WO ₆ /g-C ₃ N ₄ photocatalysts with enhanced visible-light-induced photocatalytic NO oxidation performance. <i>Chinese Journal of Catalysis</i> , 2021, 42, 69-77.	6.9	157
8	Highly Enhanced Full Solar Spectrum-Driven Photocatalytic CO ₂ Reduction Performance in Cu ₂ S/g-C ₃ N ₄ Composite: Efficient Charge Transfer and Mechanism Insight. <i>Solar Rrl</i> , 2021, 5, 2000326.	3.1	79
9	Construction of BiO ₂ /Bi ₂ O _{2.75} heterojunction for highly efficient photocatalytic CO ₂ reduction. <i>Functional Materials Letters</i> , 2021, 14, 2150010.	0.7	6
10	Emerging Hexagonal Mo ₂ C Nanosheet with (002) Facet Exposure and Cu Incorporation for Peroxymonosulfate Activation Toward Antibiotic Degradation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14342-14354.	4.0	53
11	Rich oxygen vacancies mediated bismuth oxysulfide crystals towards photocatalytic CO ₂ -to-CH ₄ conversion. <i>Science China Materials</i> , 2021, 64, 2230-2241.	3.5	68
12	Efficient persulfate activation by hematite nanocrystals for degradation of organic pollutants under visible light irradiation: Facet-dependent catalytic performance and degradation mechanism. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119883.	10.8	146
13	Enhanced degradation of tetracycline in water over Cu-doped hematite nanoplates by peroxymonosulfate activation under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2021, 416, 125838.	6.5	86
14	Synergistic effect of bimetal in three-dimensional hierarchical MnCo ₂ O ₄ for high efficiency of photoinduced Fenton-like reaction. <i>Surfaces and Interfaces</i> , 2021, 27, 101482.	1.5	2
15	CuO decorated natural rectorite as highly efficient catalyst for photoinduced peroxymonosulfate activation towards tetracycline degradation. <i>Journal of Cleaner Production</i> , 2021, 317, 128441.	4.6	20
16	Promoted charge separation from nickel intervening in [Bi ₂ O ₂] ²⁺ layers of Bi ₂ O ₂ S crystals for enhanced photocatalytic CO ₂ conversion. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120249.	10.8	69
17	Reusing warm-paste waste as catalyst for peroxymonosulfate activation toward antibiotics degradation under high salinity condition: Performance and mechanism study. <i>Chemical Engineering Journal</i> , 2021, 426, 131295.	6.6	28
18	The fabrication of two-dimensional g-C ₃ N ₄ /NaBiO ₃ ·2H ₂ O heterojunction for improved photocatalytic CO ₂ reduction: DFT study and mechanism unveiling. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 122-130.	5.0	30

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19	The enhanced photo-catalytic CO ₂ reduction performance of g-C ₃ N ₄ with high selectivity by coupling CoNiSx. <i>Materials Research Bulletin</i> , 2021, 144, 111488.	2.7	47
20	Insights into the degradation mechanisms and pathways of cephalexin during homogeneous and heterogeneous photo-Fenton processes. <i>Chemosphere</i> , 2021, 285, 131417.	4.2	22
21	A mechanistic study of amorphous CoS _x cages as advanced oxidation catalysts for excellent peroxymonosulfate activation towards antibiotics degradation. <i>Chemical Engineering Journal</i> , 2020, 381, 122768.	6.6	113
22	Low boiling point solvent mediated strategy to synthesize functionalized monolayer carbon nitride for superior photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118181.	10.8	142
23	Fabrication of functionalized plasmonic Ag loaded Bi ₂ O ₃ /montmorillonite nanocomposites for efficient photocatalytic removal of antibiotics and organic dyes. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152836.	2.8	73
24	Fabrication of Z-scheme MoO ₃ /Bi ₂ O ₄ heterojunction photocatalyst with enhanced photocatalytic performance under visible light irradiation. <i>Chinese Journal of Catalysis</i> , 2020, 41, 161-169.	6.9	149
25	Ultrasonic-assisted fabrication of a direct Z-scheme BiOI/Bi ₂ O ₄ heterojunction with superior visible light-responsive photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153417.	2.8	59
26	Fabrication of Ag/carbon nitride photocatalysts and their enhanced photocatalytic performance for tetracycline degradation. <i>Functional Materials Letters</i> , 2020, 13, 2051033.	0.7	4
27	Construction of 2D/2D Bi ₂ Se ₃ /g-C ₃ N ₄ nanocomposite with High interfacial charge separation and photo-heat conversion efficiency for selective photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119232.	10.8	140
28	Vacancy mediated Z-scheme charge transfer in a 2D/2D La ₂ Ti ₂ O ₇ /g-C ₃ N ₄ nanojunction as a bifunctional photocatalyst for solar-to-energy conversion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13241-13247.	5.2	138
29	Metal-free polymeric (SCN) _n photocatalyst with adjustable bandgap for efficient organic pollutants degradation and Cr(VI) reduction under visible-light irradiation. <i>Chemical Engineering Journal</i> , 2020, 402, 126147.	6.6	42
30	Magnetic yolk-shell structure of ZnFe ₂ O ₄ nanoparticles for enhanced visible light photo-Fenton degradation towards antibiotics and mechanism study. <i>Applied Surface Science</i> , 2020, 513, 145820.	3.1	93
31	Tungsten bronze Cs _{0.33} WO ₃ nanorods modified by molybdenum for improved photocatalytic CO ₂ reduction directly from air. <i>Science China Materials</i> , 2020, 63, 2206-2214.	3.5	32
32	Sb ₂ WO ₆ /BiOBr 2D nanocomposite S-scheme photocatalyst for NO removal. <i>Journal of Materials Science and Technology</i> , 2020, 56, 236-243.	5.6	106
33	0D Bi nanodots/2D Bi ₃ NbO ₇ nanosheets heterojunctions for efficient visible light photocatalytic degradation of antibiotics: Enhanced molecular oxygen activation and mechanism insight. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 39-49.	10.8	218
34	Microporous core-shell Co ₁₁ (HPO ₃) ₈ (OH) ₆ /Co ₁₁ (PO ₃) ₈ O ₆ nanowires for highly efficient electrocatalytic oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118091.	10.8	24
35	Amorphous Bimetallic Cobalt Nickel Sulfide Cocatalysts for Significantly Boosting Photocatalytic Hydrogen Evolution Performance of Graphitic Carbon Nitride: Efficient Interfacial Charge Transfer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26898-26908.	4.0	110
36	Selective Photocatalytic Oxidation of Low Concentration Methane over Graphitic Carbon Nitride-Decorated Tungsten Bronze Cesium. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4382-4389.	3.2	51

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37	One-Dimensional/Two-Dimensional Core-Shell-Structured Bi ₂ O ₄ /BiO ₂ Heterojunction for Highly Efficient Broad Spectrum Light-Driven Photocatalysis: Faster Interfacial Charge Transfer and Enhanced Molecular Oxygen Activation Mechanism. ACS Applied Materials & Interfaces, 2019, 11, 7112-7122.	4.0	111
38	Vis-NIR responsive Bi ₂₄ O ₃₁ Br ₁₀ and corresponding composite with up-conversion phosphor towards efficient photocatalytic oxidation. Applied Surface Science, 2019, 489, 210-219.	3.1	28
39	Photocatalytic CO ₂ Conversion of M _{0.33} WO ₃ Directly from the Air with High Selectivity: Insight into Full Spectrum-Induced Reaction Mechanism. Journal of the American Chemical Society, 2019, 141, 5267-5274.	6.6	224
40	Full spectrum light driven photocatalytic in-situ epitaxy of one-unit-cell Bi ₂ O ₂ CO ₃ layers on Bi ₂ O ₄ nanocrystals for highly efficient photocatalysis and mechanism unveiling. Applied Catalysis B: Environmental, 2019, 243, 667-677.	10.8	114
41	A novel Fe ₂ O ₃ @g-C ₃ N ₄ catalyst: Synthesis derived from Fe-based MOF and its superior photo-Fenton performance. Applied Surface Science, 2019, 469, 331-339.	3.1	268
42	Ba ₅ Ta ₄ O ₁₅ Nanosheet/AgVO ₃ Nanoribbon Heterojunctions with Enhanced Photocatalytic Oxidation Performance: Hole Dominated Charge Transfer Path and Plasmonic Effect Insight. ACS Sustainable Chemistry and Engineering, 2018, 6, 6682-6692.	3.2	88
43	Z-scheme g-C ₃ N ₄ @CsxWO ₃ heterostructure as smart window coating for UV isolating, Vis penetrating, NIR shielding and full spectrum photocatalytic decomposing VOCs. Applied Catalysis B: Environmental, 2018, 229, 218-226.	10.8	164
44	Vacancy-Rich Monolayer BiO ₂ as a Highly Efficient UV, Visible, and Near-Infrared Responsive Photocatalyst. Angewandte Chemie - International Edition, 2018, 57, 491-495.	7.2	365
45	Graphene-Based Nanocomposites for Efficient Photocatalytic Hydrogen Evolution: Insight into the Interface toward Separation of Photogenerated Charges. ACS Applied Materials & Interfaces, 2018, 10, 43760-43767.	4.0	42
46	Motivating visible light photocatalytic activity of ultrathin Bi ₂ O ₂ (OH) _x Cl _{2-x} solid solution with exposed {001} facets by the co-effect of oxygen vacancy and OH replacement. Nanoscale, 2018, 10, 15294-15302.	2.8	21
47	Noble metal-free modified ultrathin carbon nitride with promoted molecular oxygen activation for photocatalytic formaldehyde oxidization and DFT study. Applied Surface Science, 2018, 458, 59-69.	3.1	62
48	Ultrasound assisted synthesis of Bi ₂ NbO ₅ F/rectorite composite and its photocatalytic mechanism insights. Ultrasonics Sonochemistry, 2018, 48, 404-411.	3.8	24
49	Potassium Tantalate K ₆ Ta _{10.8} O ₃₀ with Tungsten Bronze Structure and Its Photocatalytic Property. Chinese Journal of Chemistry, 2017, 35, 189-195.	2.6	9
50	Facile preparation of BiOX (X = Cl, Br, I) nanoparticles and up-conversion phosphors/BiOBr composites for efficient degradation of NO gas: Oxygen vacancy effect and near infrared light responsive mechanism. Chemical Engineering Journal, 2017, 325, 59-70.	6.6	135
51	A Stable Fe ₂ O ₃ /Expanded Perlite Composite Catalyst for Degradation of Rhodamine B in Heterogeneous Photo-Fenton System. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	28
52	0D/2D Z-Scheme Heterojunctions of Bismuth Tantalate Quantum Dots/Ultrathin g-C ₃ N ₄ Nanosheets for Highly Efficient Visible Light Photocatalytic Degradation of Antibiotics. ACS Applied Materials & Interfaces, 2017, 9, 43704-43715.	4.0	313
53	Boosting molecular oxygen activation of SrTiO ₃ by engineering exposed facets for highly efficient photocatalytic oxidation. Journal of Materials Chemistry A, 2017, 5, 23822-23830.	5.2	47
54	A sillenite-type Bi ₁₂ MnO ₂₀ photocatalyst: UV, visible and infrared lights responsive photocatalytic properties induced by the hybridization of Mn 3d and O 2p orbitals. Applied Catalysis B: Environmental, 2017, 219, 132-141.	10.8	58

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55	Series of MxWO ₃ /ZnO (M = K, Rb, NH ₄) nanocomposites: Combination of energy saving and environmental decontamination functions. Applied Catalysis B: Environmental, 2017, 201, 128-136.	10.8	96
56	A Cs _x WO ₃ /ZnO nanocomposite as a smart coating for photocatalytic environmental cleanup and heat insulation. Nanoscale, 2015, 7, 17048-17054.	2.8	67