Xiaoyong Wu

List of Publications by Year in descending order

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56	4,794	81889	149686
papers	citations	39 h-index	56 g-index

56	56	56	4038
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vacancyâ€Rich Monolayer BiO_{2â^’x} as a Highly Efficient UV, Visible, and Nearâ€Infrared Responsive Photocatalyst. Angewandte Chemie - International Edition, 2018, 57, 491-495.	13.8	365
2	0D/2D Z-Scheme Heterojunctions of Bismuth Tantalate Quantum Dots/Ultrathin g-C₃N₄ Nanosheets for Highly Efficient Visible Light Photocatalytic Degradation of Antibiotics. ACS Applied Materials & Interfaces, 2017, 9, 43704-43715.	8.0	313
3	A novel Î±-Fe2O3@g-C3N4 catalyst: Synthesis derived from Fe-based MOF and its superior photo-Fenton performance. Applied Surface Science, 2019, 469, 331-339.	6.1	268
4	Photocatalytic CO₂ Conversion of M_{0.33}WO₃ Directly from the Air with High Selectivity: Insight into Full Spectrum-Induced Reaction Mechanism. Journal of the American Chemical Society, 2019, 141, 5267-5274.	13.7	224
5	0D Bi nanodots/2D Bi3NbO7 nanosheets heterojunctions for efficient visible light photocatalytic degradation of antibiotics: Enhanced molecular oxygen activation and mechanism insight. Applied Catalysis B: Environmental, 2019, 240, 39-49.	20.2	218
6	Z-scheme g-C3N4@CsxWO3 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.	20.2	164
7	S-scheme Sb2WO6/g-C3N4 photocatalysts with enhanced visible-light-induced photocatalytic NO oxidation performance. Chinese Journal of Catalysis, 2021, 42, 69-77.	14.0	157
8	Fabrication of Z-scheme MoO3/Bi2O4 heterojunction photocatalyst with enhanced photocatalytic performance under visible light irradiation. Chinese Journal of Catalysis, 2020, 41, 161-169.	14.0	149
9	Efficient persulfate activation by hematite nanocrystals for degradation of organic pollutants under visible light irradiation: Facet-dependent catalytic performance and degradation mechanism. Applied Catalysis B: Environmental, 2021, 286, 119883.	20.2	146
10	Low boiling point solvent mediated strategy to synthesize functionalized monolayer carbon nitride for superior photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2020, 260, 118181.	20.2	142
11	Construction of 2D/2D Bi2Se3/g-C3N4 nanocomposite with High interfacial charge separation and photo-heat conversion efficiency for selective photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2020, 277, 119232.	20.2	140
12	Vacancy mediated Z-scheme charge transfer in a 2D/2D La₂Ti₂O₇/g-C₃N₄ nanojunction as a bifunctional photocatalyst for solar-to-energy conversion. Journal of Materials Chemistry A, 2020, 8, 13241-13247.	10.3	138
13	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.	12.7	135
14	Full spectrum light driven photocatalytic in-situ epitaxy of one-unit-cell Bi2O2CO3 layers on Bi2O4 nanocrystals for highly efficient photocatalysis and mechanism unveiling. Applied Catalysis B: Environmental, 2019, 243, 667-677.	20.2	114
15	A mechanistic study of amorphous CoSx cages as advanced oxidation catalysts for excellent peroxymonosulfate activation towards antibiotics degradation. Chemical Engineering Journal, 2020, 381, 122768.	12.7	113
16	One-Dimensional/Two-Dimensional Coreâ€“Shell-Structured Bi₂O₄/BiO_{2â€“x} 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.	8.0	111
17	Amorphous Bimetallic Cobalt Nickel Sulfide Cocatalysts for Significantly Boosting Photocatalytic Hydrogen Evolution Performance of Graphitic Carbon Nitride: Efficient Interfacial Charge Transfer. ACS Applied Materials & Interfaces, 2019, 11, 26898-26908.	8.0	110
18	Sb2WO6/BiOBr 2D nanocomposite S-scheme photocatalyst for NO removal. Journal of Materials Science and Technology, 2020, 56, 236-243.	10.7	106

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19	Series of MxWO3/ZnO (M = K, Rb, NH4) nanocomposites: Combination of energy saving and environmental decontamination functions. Applied Catalysis B: Environmental, 2017, 201, 128-136.	20.2	96
20	Magnetic yolk-shell structure of ZnFe2O4 nanoparticles for enhanced visible light photo-Fenton degradation towards antibiotics and mechanism study. Applied Surface Science, 2020, 513, 145820.	6.1	93
21	Ba₅Ta₄O₁₅ Nanosheet/AgVO₃ 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.	6.7	88
22	Enhanced degradation of tetracycline in water over Cu-doped hematite nanoplates by peroxymonosulfate activation under visible light irradiation. Journal of Hazardous Materials, 2021, 416, 125838.	12.4	86
23	Selective CO2 photoreduction to CH4 mediated by dimension-matched 2D/2D Bi3NbO7/g-C3N4 S-scheme heterojunction. Chinese Journal of Catalysis, 2022, 43, 246-254.	14.0	85
24	Highly Enhanced Full Solar Spectrumâ€Driven Photocatalytic CO₂ Reduction Performance in Cu_{2â€“x}S/gâ€C₃N₄ Composite: Efficient Charge Transfer and Mechanism Insight. Solar Rrl, 2021, 5, 2000326.	5.8	79
25	Fabrication of functionalized plasmonic Ag loaded Bi2O3/montmorillonite nanocomposites for efficient photocatalytic removal of antibiotics and organic dyes. Journal of Alloys and Compounds, 2020, 818, 152836.	5.5	73
26	Promoted charge separation from nickel intervening in [Bi2O2]2+ layers of Bi2O2S crystals for enhanced photocatalytic CO2 conversion. Applied Catalysis B: Environmental, 2021, 294, 120249.	20.2	69
27	Rich oxygen vacancies mediated bismuth oxysulfide crystals towards photocatalytic CO2-to-CH4 conversion. Science China Materials, 2021, 64, 2230-2241.	6.3	68
28	A Cs_xWO₃/ZnO nanocomposite as a smart coating for photocatalytic environmental cleanup and heat insulation. Nanoscale, 2015, 7, 17048-17054.	5.6	67
29	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.	6.1	62
30	Unlocking bimetallic active sites via a desalination strategy for photocatalytic reduction of atmospheric carbon dioxide. Nature Communications, 2022, 13, 2146.	12.8	60
31	Ultrasonic-assisted fabrication of a direct Z-scheme BiOI/Bi2O4 heterojunction with superior visible light-responsive photocatalytic performance. Journal of Alloys and Compounds, 2020, 821, 153417.	5.5	59
32	A sillenite-type Bi12MnO20 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.	20.2	58
33	Emerging Hexagonal Mo₂C Nanosheet with (002) Facet Exposure and Cu Incorporation for Peroxymonosulfate Activation Toward Antibiotic Degradation. ACS Applied Materials & Interfaces, 2021, 13, 14342-14354.	8.0	53
34	Selective Photocatalytic Oxidation of Low Concentration Methane over Graphitic Carbon Nitride-Decorated Tungsten Bronze Cesium. ACS Sustainable Chemistry and Engineering, 2019, 7, 4382-4389.	6.7	51
35	Boosting molecular oxygen activation of SrTiO₃by engineering exposed facets for highly efficient photocatalytic oxidation. Journal of Materials Chemistry A, 2017, 5, 23822-23830.	10.3	47
36	The enhanced photo-catalytic CO2 reduction performance of g-C3N4 with high selectivity by coupling CoNiSx. Materials Research Bulletin, 2021, 144, 111488.	5.2	47

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37	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.	8.0	42
38	Metal-free polymeric (SCN)n photocatalyst with adjustable bandgap for efficient organic pollutants degradation and Cr(VI) reduction under visible-light irradiation. Chemical Engineering Journal, 2020, 402, 126147.	12.7	42
39	Molecular-functionalized engineering of porous carbon nitride nanosheets for wide-spectrum responsive solar fuel generation. Journal of Colloid and Interface Science, 2022, 607, 1061-1070.	9.4	41
40	Tungsten bronze Cs0.33WO3 nanorods modified by molybdenum for improved photocatalytic CO2 reduction directly from air. Science China Materials, 2020, 63, 2206-2214.	6.3	32
41	The fabrication of two-dimensional g-C3N4/NaBiO3Â·2H2O heterojunction for improved photocatalytic CO2 reduction: DFT study and mechanism unveiling. Journal of Colloid and Interface Science, 2021, 604, 122-130.	9.4	30
42	A Stable Fe2O3/Expanded Perlite Composite Catalyst for Degradation of Rhodamine B in Heterogeneous Photo-Fenton System. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	28
43	Vis-NIR responsive Bi24O31Br10 and corresponding composite with up-conversion phosphor towards efficient photocatalytic oxidation. Applied Surface Science, 2019, 489, 210-219.	6.1	28
44	Reusing warm-paste waste as catalyst for peroxymonosulfate activation toward antibiotics degradation under high salinity condition: Performance and mechanism study. Chemical Engineering Journal, 2021, 426, 131295.	12.7	28
45	Ultrasound assisted synthesis of Bi2NbO5F/rectorite composite and its photocatalytic mechanism insights. Ultrasonics Sonochemistry, 2018, 48, 404-411.	8.2	24
46	Microporous core-shell Co11(HPO3)8(OH)6/Co11(PO3)8O6 nanowires for highly efficient electrocatalytic oxygen evolution reaction. Applied Catalysis B: Environmental, 2019, 259, 118091.	20.2	24
47	Insights into the degradation mechanisms and pathways of cephalexin during homogeneous and heterogeneous photo-Fenton processes. Chemosphere, 2021, 285, 131417.	8.2	22
48	Motivating visible light photocatalytic activity of ultrathin Bi₂O₂(OH)_xCl_{2â^'x} solid solution with exposed {001} facets by the co-effect of oxygen vacancy and OH replacement. Nanoscale, 2018, 10, 15294-15302.	5.6	21
49	CuO decorated natural rectorite as highly efficient catalyst for photoinduced peroxymonosulfate activation towards tetracycline degradation. Journal of Cleaner Production, 2021, 317, 128441.	9.3	20
50	A novel Fe-rectorite composite catalyst synergetic photoinduced peroxymonosulfate activation for efficient degradation of antibiotics. Chemosphere, 2022, 289, 133211.	8.2	15
51	Efficient simultaneous removal of tetracycline hydrochloride and Cr(VI) through photothermal-assisted photocatalytic-Fenton-like processes with CuOx/Î³-Al2O3. Journal of Colloid and Interface Science, 2022, 622, 526-538.	9.4	12
52	Self-assembled ultrathin closely bonded 2D/2D heterojunction for enhanced visible-light-induced photocatalytic oxidation and reaction mechanism insights. Journal of Colloid and Interface Science, 2022, 608, 2472-2481.	9.4	10
53	Potassium Tantalate K₆Ta_{10.8}O₃₀ with Tungsten Bronze Structure and Its Photocatalytic Property. Chinese Journal of Chemistry, 2017, 35, 189-195.	4.9	9
54	Construction of BiO2â^'x/Bi₂O2.75 heterojunction for highly efficient photocatalytic CO₂ reduction. Functional Materials Letters, 2021, 14, 2150010.	1.2	6

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55	Fabrication of Ag/carbon nitride photocatalysts and their enhanced photocatalytic performance for tetracycline degradation. Functional Materials Letters, 2020, 13, 2051033.	1.2	4
56	Synergistic effect of bimetal in three-dimensional hierarchical MnCo2O4 for high efficiency of photoinduced Fenton-like reaction. Surfaces and Interfaces, 2021, 27, 101482.	3.0	2