Xiaoqiang An

List of Publications by Year
in descending order

81 papers	6,160 citations	81900 39 h-index	69250 77 g-index
81 all docs	81 docs citations	81 times ranked	8682 citing authors

#	Article	IF	Citations
1	Exfoliation method matters: The microstructure-dependent photoactivity of g-C3N4 nanosheets for water purification. Journal of Hazardous Materials, 2022, 424, 127424.	12.4	32
2	Assembly-synthesis of puff pastry-like g-C3N4/CdS heterostructure as S-junctions for efficient photocatalytic water splitting. Chemical Engineering Journal, 2022, 431, 133348.	12.7	41
3	Defect modulation of MOF-derived ZnFe2O4/CNTs microcages for persulfate activation: Enhanced nonradical catalytic oxidation. Chemical Engineering Journal, 2022, 431, 133369.	12.7	27
4	Characterization on the formation mechanism of Fe0/Fe3C/C nanostructure and its effect on PMS activation performance towards BPA degradation. Chemical Engineering Journal, 2022, 435, 134709.	12.7	3
5	Largeâ€Area Printing of Ferroelectric Surface and Superâ€Domain for Solar Water Splitting. Advanced Functional Materials, 2022, 32, .	14.9	17
6	Mo,Fe-codoped metal phosphide nanosheets derived from Prussian blue analogues for efficient overall water splitting. Journal of Colloid and Interface Science, 2022, 615, 456-464.	9.4	15
7	Insight into the Key Role of Cr Intermediates in the Efficient and Simultaneous Degradation of Organic Contaminants and Cr(VI) Reduction via g-C₃N₄-Assisted Photocatalysis. Environmental Science & Technology, 2022, 56, 3552-3563.	10.0	48
8	Facet-dependent activity of TiO2/covalent organic framework S-scheme heterostructures for CO2 photoreduction. Chemical Engineering Journal, 2022, 442, 135279.	12.7	34
9	Water-plasma-activated g-C3N4 for enhanced photodegradation of bisphenol A synergized with persulfate oxidation. Applied Surface Science, 2022, 592, 153163.	6.1	9
10	g-C3N4 nanofibers network reinforced polyamide nanofiltration membrane for fast desalination. Separation and Purification Technology, 2022, 293, 121125.	7.9	18
11	Synergy of cyano groups and cobalt single atoms in graphitic carbon nitride for enhanced bio-denitrification. Water Research, 2022, 218, 118465.	11.3	19
12	Interface-modulated nanojunction and microfluidic platform for photoelectrocatalytic chemicals upgrading. Applied Catalysis B: Environmental, 2021, 282, 119541.	20.2	29
13	Synergistic effect of dual sites on bimetal-organic frameworks for highly efficient peroxide activation. Journal of Hazardous Materials, 2021, 406, 124692.	12.4	52
14	Defect-enhanced activation of carbon nitride/horseradish peroxidase nanohybrids for visible-light-driven photobiocatalytic water purification. Chemical Engineering Journal, 2021, 408, 127231.	12.7	25
15	Revealing Surface Charge Population on Flake-Like BiVO₄ Photocatalysts by Single Particle Imaging Spectroscopies. ACS Applied Energy Materials, 2021, 4, 2543-2551.	5.1	16
16	A critical review of g-C3N4-based photocatalytic membrane for water purification. Chemical Engineering Journal, 2021, 412, 128663.	12.7	144
17	Emerging graphitic carbon nitride-based membranes for water purification. Water Research, 2021, 200, 117207.	11.3	53
18	A dual-biomimetic photocatalytic fuel cell for efficient electricity generation from degradation of refractory organic pollutants. Applied Catalysis B: Environmental, 2021, 298, 120501.	20.2	26

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19	Facet-Regulating Local Coordination of Dual-Atom Cocatalyzed TiO₂ for Photocatalytic Water Splitting. ACS Catalysis, 2021, 11, 14669-14676.	11.2	42
20	3-D hierarchical Ag/ZnO@CF for synergistically removing phenol and Cr(VI): Heterogeneous vs. homogeneous photocatalysis. Journal of Colloid and Interface Science, 2020, 558, 85-94.	9.4	55
21	Polyoxometalates/TiO2 photocatalysts with engineered facets for enhanced degradation of bisphenol A through persulfate activation. Applied Catalysis B: Environmental, 2020, 268, 118394.	20.2	88
22	A strategy of enhancing photoactivity of TiO2 via facet-dependent pyrolysis of dicyandiamide. Applied Catalysis B: Environmental, 2020, 264, 118527.	20.2	10
23	New insights into the surface-dependent activity of graphitic felts for the electro-generation of H2O2. Applied Surface Science, 2020, 509, 144875.	6.1	25
24	Visualizing the Interfacial Charge Transfer between Photoactive Microcystis aeruginosa and Hydrogenated TiO₂. Environmental Science & Technology, 2020, 54, 10323-10332.	10.0	21
25	One-step exfoliation of polymeric C3N4 by atmospheric oxygen doping for photocatalytic persulfate activation. Journal of Colloid and Interface Science, 2020, 579, 455-462.	9.4	28
26	Dual channel construction of WO3 photocatalysts by solution plasma for the persulfate-enhanced photodegradation of bisphenol A. Applied Catalysis B: Environmental, 2020, 277, 119221.	20.2	56
27	Defect-enhanced photocatalytic removal of dimethylarsinic acid over mixed-phase mesoporous TiO2. Journal of Environmental Sciences, 2020, 91, 35-42.	6.1	15
28	Bifunctional Photoelectrode Driven by Charged Domain Walls in Ferroelectric Bi₂WO₆. ACS Applied Energy Materials, 2020, 3, 4149-4154.	5.1	19
29	A promising treatment method for Cr(VI) detoxification and recovery by coupling Fe0/Fe3C/C fine powders and circulating fluidized bed. Chemical Engineering Journal, 2020, 398, 125565.	12.7	8
30	Defect Modulation of Z-Scheme TiO₂/Cu₂O Photocatalysts for Durable Water Splitting. ACS Catalysis, 2019, 9, 8346-8354.	11.2	146
31	Synergetic Photocatalytic Pure Water Splitting and Self-Supplied Oxygen Activation by 2-D WO₃/TiO₂ Heterostructures. ACS Sustainable Chemistry and Engineering, 2019, 7, 19902-19909.	6.7	18
32	Controllable Ferroelastic Switching in Epitaxial Self-Assembled Aurivillius Nanobricks. ACS Applied Materials & Interfaces, 2019, 11, 7296-7302.	8.0	9
33	Faceted TiO2 photocatalytic degradation of anthraquinone in aquatic solution under solar irradiation. Science of the Total Environment, 2019, 688, 592-599.	8.0	29
34	Hydrogen-Bond-Mediated Self-Assembly of Carbon-Nitride-Based Photo-Fenton-like Membranes for Wastewater Treatment. Environmental Science & Technology, 2019, 53, 6981-6988.	10.0	79
35	Interfacial Charge Transfer in MoS2/TiO2 Heterostructured Photocatalysts: The Impact of Crystal Facets and Defects. Molecules, 2019, 24, 1769.	3.8	18
36	Recent advances on photocatalytic fuel cell for environmental applicationsâ€"The marriage of photocatalysis and fuel cells. Science of the Total Environment, 2019, 668, 966-978.	8.0	144

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37	Intercalation of Nanosized Fe₃C in Iron/Carbon To Construct Multifunctional Interface with Reduction, Catalysis, Corrosion Resistance, and Immobilization Capabilities. ACS Applied Materials & Interfaces, 2019, 11, 15709-15717.	8.0	50
38	Colloidal synthesis of SnS nanocrystals with dimension-dependent photoelectrochemical properties. New Journal of Chemistry, 2019, 43, 7457-7462.	2.8	15
39	New insights into interfacial photocharge transfer in TiO₂/C₃N₄ heterostructures: effects of facets and defects. New Journal of Chemistry, 2019, 43, 4511-4517.	2.8	27
40	Effect of Single-Atom Cocatalysts on the Activity of Faceted TiO₂ Photocatalysts. Langmuir, 2019, 35, 391-397.	3.5	54
41	Microfluidic-enhanced 3-D photoanodes with free interfacial energy barrier for photoelectrochemical applications. Applied Catalysis B: Environmental, 2019, 244, 740-747.	20.2	29
42	Polyoxometalates/TiO2 Fenton-like photocatalysts with rearranged oxygen vacancies for enhanced synergetic degradation. Applied Catalysis B: Environmental, 2019, 244, 407-413.	20.2	92
43	Electroactive Modified Carbon Nanotube Filter for Simultaneous Detoxification and Sequestration of Sb(III). Environmental Science & Technology, 2019, 53, 1527-1535.	10.0	111
44	Oxygen vacancy modulation of {010}-dominated TiO2 for enhanced photodegradation of Sulfamethoxazole. Catalysis Communications, 2019, 118, 35-38.	3.3	13
45	Strongly Coupled Metal Oxide/Reassembled Carbon Nitride/Coâ€"Pi Heterostructures for Efficient Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 6424-6432.	8.0	50
46	Hierarchical Nanotubular Anatase/Rutile/TiO₂(B) Heterophase Junction with Oxygen Vacancies for Enhanced Photocatalytic H₂ Production. Langmuir, 2018, 34, 1883-1889.	3.5	85
47	The synergetic effects of Ti₃C₂ MXene and Pt as co-catalysts for highly efficient photocatalytic hydrogen evolution over g-C₃N₄. Physical Chemistry Chemical Physics, 2018, 20, 11405-11411.	2.8	189
48	Decomplexation of Cu(II)-EDTA over oxygen-doped g-C3N4: An available resource towards environmental sustainability. Chemical Engineering Journal, 2018, 345, 138-146.	12.7	35
49	Strongly coupled polyoxometalates/oxygen doped g-C3N4 nanocomposites as Fenton-like catalysts for efficient photodegradation of sulfosalicylic acid. Catalysis Communications, 2018, 112, 63-67.	3.3	34
50	Efficient design principle for interfacial charge separation in hydrogen-intercalated nonstoichiometric oxides. Nano Energy, 2018, 53, 887-897.	16.0	27
51	Multi-electric field modulation for photocatalytic oxygen evolution: Enhanced charge separation by coupling oxygen vacancies with faceted heterostructures. Nano Energy, 2018, 51, 764-773.	16.0	88
52	Facet-dependent intermediate formation and reaction mechanism of photocatalytic removing hydrophobic anthracene under simulated solar irradiation. Applied Catalysis B: Environmental, 2017, 206, 194-202.	20.2	19
53	Boosting photoelectrochemical activities of heterostructured photoanodes through interfacial modulation of oxygen vacancies. Nano Energy, 2017, 35, 290-298.	16.0	59
54	Oxygen vacancy mediated construction of anatase/brookite heterophase junctions for high-efficiency photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 24989-24994.	10.3	81

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55	Light absorption modulation of novel Fe₂TiO₅ inverse opals for photoelectrochemical water splitting. New Journal of Chemistry, 2017, 41, 7966-7971.	2.8	18
56	Microstructure of carbon nitride affecting synergetic photocatalytic activity: Hydrogen bonds vs. structural defects. Applied Catalysis B: Environmental, 2017, 204, 49-57.	20.2	143
57	New Insights into Defectâ€Mediated Heterostructures for Photoelectrochemical Water Splitting. Advanced Energy Materials, 2016, 6, 1502268.	19.5	95
58	Efficient conversion of dimethylarsinate into arsenic and its simultaneous adsorption removal over FeCx/N-doped carbon fiber composite in an electro-Fenton process. Water Research, 2016, 100, 57-64.	11.3	71
59	Enhanced Electroreductive Removal of Bromate by a Supported Pdâ€"In Bimetallic Catalyst: Kinetics and Mechanism Investigation. Environmental Science & Technology, 2016, 50, 11872-11878.	10.0	39
60	Biomolecule-assisted self-assembly of CdS/MoS 2 /graphene hollow spheres as high-efficiency photocatalysts for hydrogen evolution without noble metals. Applied Catalysis B: Environmental, 2016, 182, 504-512.	20.2	175
61	A critical review of CO2 photoconversion: Catalysts and reactors. Catalysis Today, 2014, 224, 3-12.	4.4	581
62	Cu₂O/Reduced Graphene Oxide Composites for the Photocatalytic Conversion of CO₂. ChemSusChem, 2014, 7, 1086-1093.	6.8	387
63	Biomolecule-assisted fabrication of copper doped SnS₂nanosheetâ€"reduced graphene oxide junctions with enhanced visible-light photocatalytic activity. Journal of Materials Chemistry A, 2014, 2, 1000-1005.	10.3	144
64	Interfacial charge separation in Cu₂O/RuO_x as a visible light driven CO₂ reduction catalyst. Physical Chemistry Chemical Physics, 2014, 16, 5922-5926.	2.8	55
65	The effect of the Ga content on the photocatalytic hydrogen evolution of Culn_{1â^'x}Ga_xS₂nanocrystals. Journal of Materials Chemistry A, 2014, 2, 12317.	10.3	76
66	Cu₂ZnSnS₄-Pt and Cu₂ZnSnS₄-Au Heterostructured Nanoparticles for Photocatalytic Water Splitting and Pollutant Degradation. Journal of the American Chemical Society, 2014, 136, 9236-9239.	13.7	374
67	CdS nanorods/reduced graphene oxide nanocomposites for photocatalysis and electrochemical sensing. Journal of Materials Chemistry A, 2013, 1, 5158.	10.3	101
68	One-pot synthesis of In2S3 nanosheets/graphene composites with enhanced visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2013, 129, 80-88.	20.2	145
69	ZnO@ZnS hollow dumbbellsâ€"graphene composites as high-performance photocatalysts and alcohol sensors. New Journal of Chemistry, 2012, 36, 2593.	2.8	67
70	WO3 nanorods/graphene nanocomposites for high-efficiency visible-light-driven photocatalysis and NO2 gas sensing. Journal of Materials Chemistry, 2012, 22, 8525.	6.7	484
71	Graphene-based photocatalytic composites. RSC Advances, 2011, 1, 1426.	3.6	499
72	Fabrication of Biocompatible Znâ€"Cysteine Nanowires and Their Application in Selective Fluorescence Detection of Cu²⁺. Journal of Nanoscience and Nanotechnology, 2010, 10, 8356-8361.	0.9	4

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73	Controllable hydrothermal synthesis of Cu2S nanowires on the copper substrate. Materials Letters, 2010, 64, 252-254.	2.6	34
74	Enhanced magnetic and optical properties of pure and (Mn, Sr) doped BiFeO3 nanocrystals. Solid State Communications, 2009, 149, 711-714.	1.9	77
75	Optical and photocatalytic properties of sulfide semiconductor quantum dots (QDs) synthesized by silk fibroin template. Materials Letters, 2008, 62, 2754-2757.	2.6	6
76	Biomineralization of CaCO₃ through the Cooperative Interactions between Multiple Additives and Self-Assembled Monolayers. Journal of Physical Chemistry C, 2008, 112, 6526-6530.	3.1	20
77	Growth and Field Emission Properties of Cactus-like Gallium Oxide Nanostructures. Journal of Physical Chemistry C, 2008, 112, 95-98.	3.1	41
78	Coeffect of Silk Fibroin and Self-Assembly Monolayers on the Biomineralization of Calcium Carbonate. Journal of Physical Chemistry C, 2008, 112, 15844-15849.	3.1	23
79	Synthesis of aligned ripple-like and helical structure silica fibres. Journal of Non-Crystalline Solids, 2007, 353, 1041-1045.	3.1	2
80	Bio-inspired fabrication of ZnO nanorod arrays and their optical and photoresponse properties. Journal of Crystal Growth, 2007, 308, 340-347.	1.5	16
81	Silvered TiO2 for Facet-Dependent Photocatalytic Denitrification. ACS Applied Nano Materials, 0, , .	5.0	7