

Xiaoqiang An

List of Publications by Year in descending order

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81
papers

6,160
citations

87723

38
h-index

69108

77
g-index

81
all docs

81
docs citations

81
times ranked

8682
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of CO ₂ photoconversion: Catalysts and reactors. <i>Catalysis Today</i> , 2014, 224, 3-12.	2.2	581
2	Graphene-based photocatalytic composites. <i>RSC Advances</i> , 2011, 1, 1426.	1.7	499
3	WO ₃ nanorods/graphene nanocomposites for high-efficiency visible-light-driven photocatalysis and NO ₂ gas sensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 8525.	6.7	484
4	Cu ₂ O/Reduced Graphene Oxide Composites for the Photocatalytic Conversion of CO ₂ . <i>ChemSusChem</i> , 2014, 7, 1086-1093.	3.6	387
5	Cu ₂ ZnSnS ₄ -Pt and Cu ₂ ZnSnS ₄ -Au Heterostructured Nanoparticles for Photocatalytic Water Splitting and Pollutant Degradation. <i>Journal of the American Chemical Society</i> , 2014, 136, 9236-9239.	6.6	374
6	The synergetic effects of Ti ₃ C ₂ MXene and Pt as co-catalysts for highly efficient photocatalytic hydrogen evolution over g-C ₃ N ₄ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11405-11411.	1.3	189
7	Biomolecule-assisted self-assembly of CdS/MoS ₂ /graphene hollow spheres as high-efficiency photocatalysts for hydrogen evolution without noble metals. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 504-512.	10.8	175
8	Defect Modulation of Z-Scheme TiO ₂ /Cu ₂ O Photocatalysts for Durable Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 8346-8354.	5.5	146
9	One-pot synthesis of In ₂ S ₃ nanosheets/graphene composites with enhanced visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013, 129, 80-88.	10.8	145
10	Biomolecule-assisted fabrication of copper doped SnS ₂ nanosheet/reduced graphene oxide junctions with enhanced visible-light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1000-1005.	5.2	144
11	Recent advances on photocatalytic fuel cell for environmental applicationsâ€”The marriage of photocatalysis and fuel cells. <i>Science of the Total Environment</i> , 2019, 668, 966-978.	3.9	144
12	A critical review of g-C ₃ N ₄ -based photocatalytic membrane for water purification. <i>Chemical Engineering Journal</i> , 2021, 412, 128663.	6.6	144
13	Microstructure of carbon nitride affecting synergetic photocatalytic activity: Hydrogen bonds vs. structural defects. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 49-57.	10.8	143
14	Electroactive Modified Carbon Nanotube Filter for Simultaneous Detoxification and Sequestration of Sb(III). <i>Environmental Science & Technology</i> , 2019, 53, 1527-1535.	4.6	111
15	CdS nanorods/reduced graphene oxide nanocomposites for photocatalysis and electrochemical sensing. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5158.	5.2	101
16	New Insights into Defect-Mediated Heterostructures for Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2016, 6, 1502268.	10.2	95
17	Polyoxometalates/TiO ₂ Fenton-like photocatalysts with rearranged oxygen vacancies for enhanced synergetic degradation. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 407-413.	10.8	92
18	Multi-electric field modulation for photocatalytic oxygen evolution: Enhanced charge separation by coupling oxygen vacancies with faceted heterostructures. <i>Nano Energy</i> , 2018, 51, 764-773.	8.2	88

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19	Polyoxometalates/TiO ₂ photocatalysts with engineered facets for enhanced degradation of bisphenol A through persulfate activation. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118394.	10.8	88
20	Hierarchical Nanotubular Anatase/Rutile/TiO ₂ (B) Heterophase Junction with Oxygen Vacancies for Enhanced Photocatalytic H ₂ Production. <i>Langmuir</i> , 2018, 34, 1883-1889.	1.6	85
21	Oxygen vacancy mediated construction of anatase/brookite heterophase junctions for high-efficiency photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24989-24994.	5.2	81
22	Hydrogen-Bond-Mediated Self-Assembly of Carbon-Nitride-Based Photo-Fenton-like Membranes for Wastewater Treatment. <i>Environmental Science & Technology</i> , 2019, 53, 6981-6988.	4.6	79
23	Enhanced magnetic and optical properties of pure and (Mn, Sr) doped BiFeO ₃ nanocrystals. <i>Solid State Communications</i> , 2009, 149, 711-714.	0.9	77
24	The effect of the Ga content on the photocatalytic hydrogen evolution of CuIn _{1-x} Ga _x S ₂ nanocrystals. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12317.	5.2	76
25	Efficient conversion of dimethylarsinate into arsenic and its simultaneous adsorption removal over FeC _x /N-doped carbon fiber composite in an electro-Fenton process. <i>Water Research</i> , 2016, 100, 57-64.	5.3	71
26	ZnO@ZnS hollow dumbbells-graphene composites as high-performance photocatalysts and alcohol sensors. <i>New Journal of Chemistry</i> , 2012, 36, 2593.	1.4	67
27	Boosting photoelectrochemical activities of heterostructured photoanodes through interfacial modulation of oxygen vacancies. <i>Nano Energy</i> , 2017, 35, 290-298.	8.2	59
28	Dual channel construction of WO ₃ photocatalysts by solution plasma for the persulfate-enhanced photodegradation of bisphenol A. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119221.	10.8	56
29	Interfacial charge separation in Cu ₂ O/RuO _x as a visible light driven CO ₂ reduction catalyst. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5922-5926.	1.3	55
30	3-D hierarchical Ag/ZnO@CF for synergistically removing phenol and Cr(VI): Heterogeneous vs. homogeneous photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 85-94.	5.0	55
31	Effect of Single-Atom Cocatalysts on the Activity of Faceted TiO ₂ Photocatalysts. <i>Langmuir</i> , 2019, 35, 391-397.	1.6	54
32	Emerging graphitic carbon nitride-based membranes for water purification. <i>Water Research</i> , 2021, 200, 117207.	5.3	53
33	Synergistic effect of dual sites on bimetal-organic frameworks for highly efficient peroxide activation. <i>Journal of Hazardous Materials</i> , 2021, 406, 124692.	6.5	52
34	Strongly Coupled Metal Oxide/Reassembled Carbon Nitride/Co-Pi Heterostructures for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6424-6432.	4.0	50
35	Intercalation of Nanosized Fe ₃ C in Iron/Carbon To Construct Multifunctional Interface with Reduction, Catalysis, Corrosion Resistance, and Immobilization Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15709-15717.	4.0	50
36	Insight into the Key Role of Cr Intermediates in the Efficient and Simultaneous Degradation of Organic Contaminants and Cr(VI) Reduction via g-C ₃ N ₄ -Assisted Photocatalysis. <i>Environmental Science & Technology</i> , 2022, 56, 3552-3563.	4.6	48

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37	Facet-Regulating Local Coordination of Dual-Atom Cocatalyzed TiO ₂ for Photocatalytic Water Splitting. ACS Catalysis, 2021, 11, 14669-14676.	5.5	42
38	Growth and Field Emission Properties of Cactus-like Gallium Oxide Nanostructures. Journal of Physical Chemistry C, 2008, 112, 95-98.	1.5	41
39	Assembly-synthesis of puff pastry-like g-C ₃ N ₄ /CdS heterostructure as S-junctions for efficient photocatalytic water splitting. Chemical Engineering Journal, 2022, 431, 133348.	6.6	41
40	Enhanced Electroreductive Removal of Bromate by a Supported Pd-In Bimetallic Catalyst: Kinetics and Mechanism Investigation. Environmental Science & Technology, 2016, 50, 11872-11878.	4.6	39
41	Decomplexation of Cu(II)-EDTA over oxygen-doped g-C ₃ N ₄ : An available resource towards environmental sustainability. Chemical Engineering Journal, 2018, 345, 138-146.	6.6	35
42	Controllable hydrothermal synthesis of Cu ₂ S nanowires on the copper substrate. Materials Letters, 2010, 64, 252-254.	1.3	34
43	Strongly coupled polyoxometalates/oxygen doped g-C ₃ N ₄ nanocomposites as Fenton-like catalysts for efficient photodegradation of sulfosalicylic acid. Catalysis Communications, 2018, 112, 63-67.	1.6	34
44	Facet-dependent activity of TiO ₂ /covalent organic framework S-scheme heterostructures for CO ₂ photoreduction. Chemical Engineering Journal, 2022, 442, 135279.	6.6	34
45	Exfoliation method matters: The microstructure-dependent photoactivity of g-C ₃ N ₄ nanosheets for water purification. Journal of Hazardous Materials, 2022, 424, 127424.	6.5	32
46	Faceted TiO ₂ photocatalytic degradation of anthraquinone in aquatic solution under solar irradiation. Science of the Total Environment, 2019, 688, 592-599.	3.9	29
47	Microfluidic-enhanced 3-D photoanodes with free interfacial energy barrier for photoelectrochemical applications. Applied Catalysis B: Environmental, 2019, 244, 740-747.	10.8	29
48	Interface-modulated nanojunction and microfluidic platform for photoelectrocatalytic chemicals upgrading. Applied Catalysis B: Environmental, 2021, 282, 119541.	10.8	29
49	One-step exfoliation of polymeric C ₃ N ₄ by atmospheric oxygen doping for photocatalytic persulfate activation. Journal of Colloid and Interface Science, 2020, 579, 455-462.	5.0	28
50	Efficient design principle for interfacial charge separation in hydrogen-intercalated nonstoichiometric oxides. Nano Energy, 2018, 53, 887-897.	8.2	27
51	New insights into interfacial photocharge transfer in TiO ₂ /C ₃ N ₄ heterostructures: effects of facets and defects. New Journal of Chemistry, 2019, 43, 4511-4517.	1.4	27
52	Defect modulation of MOF-derived ZnFe ₂ O ₄ /CNTs microcages for persulfate activation: Enhanced nonradical catalytic oxidation. Chemical Engineering Journal, 2022, 431, 133369.	6.6	27
53	A dual-biomimetic photocatalytic fuel cell for efficient electricity generation from degradation of refractory organic pollutants. Applied Catalysis B: Environmental, 2021, 298, 120501.	10.8	26
54	New insights into the surface-dependent activity of graphitic felts for the electro-generation of H ₂ O ₂ . Applied Surface Science, 2020, 509, 144875.	3.1	25

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55	Defect-enhanced activation of carbon nitride/horseradish peroxidase nanohybrids for visible-light-driven photobiocatalytic water purification. <i>Chemical Engineering Journal</i> , 2021, 408, 127231.	6.6	25
56	Coeffect of Silk Fibroin and Self-Assembly Monolayers on the Biomineralization of Calcium Carbonate. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15844-15849.	1.5	23
57	Visualizing the Interfacial Charge Transfer between Photoactive <i>Microcystis aeruginosa</i> and Hydrogenated TiO ₂ . <i>Environmental Science & Technology</i> , 2020, 54, 10323-10332.	4.6	21
58	Biomineralization of CaCO ₃ through the Cooperative Interactions between Multiple Additives and Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6526-6530.	1.5	20
59	Facet-dependent intermediate formation and reaction mechanism of photocatalytic removing hydrophobic anthracene under simulated solar irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 194-202.	10.8	19
60	Bifunctional Photoelectrode Driven by Charged Domain Walls in Ferroelectric Bi ₂ WO ₆ . <i>ACS Applied Energy Materials</i> , 2020, 3, 4149-4154.	2.5	19
61	Synergy of cyano groups and cobalt single atoms in graphitic carbon nitride for enhanced bio-denitrification. <i>Water Research</i> , 2022, 218, 118465.	5.3	19
62	Light absorption modulation of novel Fe ₂ TiO ₅ inverse opals for photoelectrochemical water splitting. <i>New Journal of Chemistry</i> , 2017, 41, 7966-7971.	1.4	18
63	Synergetic Photocatalytic Pure Water Splitting and Self-Supplied Oxygen Activation by 2-D WO ₃ /TiO ₂ Heterostructures. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19902-19909.	3.2	18
64	Interfacial Charge Transfer in MoS ₂ /TiO ₂ Heterostructured Photocatalysts: The Impact of Crystal Facets and Defects. <i>Molecules</i> , 2019, 24, 1769.	1.7	18
65	g-C ₃ N ₄ nanofibers network reinforced polyamide nanofiltration membrane for fast desalination. <i>Separation and Purification Technology</i> , 2022, 293, 121125.	3.9	18
66	Large-Area Printing of Ferroelectric Surface and Superlattice Domain for Solar Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
67	Bio-inspired fabrication of ZnO nanorod arrays and their optical and photoresponse properties. <i>Journal of Crystal Growth</i> , 2007, 308, 340-347.	0.7	16
68	Revealing Surface Charge Population on Flake-Like BiVO ₄ Photocatalysts by Single Particle Imaging Spectroscopies. <i>ACS Applied Energy Materials</i> , 2021, 4, 2543-2551.	2.5	16
69	Colloidal synthesis of SnS nanocrystals with dimension-dependent photoelectrochemical properties. <i>New Journal of Chemistry</i> , 2019, 43, 7457-7462.	1.4	15
70	Defect-enhanced photocatalytic removal of dimethylarsinic acid over mixed-phase mesoporous TiO ₂ . <i>Journal of Environmental Sciences</i> , 2020, 91, 35-42.	3.2	15
71	Mo,Fe-codoped metal phosphide nanosheets derived from Prussian blue analogues for efficient overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 456-464.	5.0	15
72	Oxygen vacancy modulation of {010}-dominated TiO ₂ for enhanced photodegradation of Sulfamethoxazole. <i>Catalysis Communications</i> , 2019, 118, 35-38.	1.6	13

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73	A strategy of enhancing photoactivity of TiO ₂ via facet-dependent pyrolysis of dicyandiamide. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118527.	10.8	10
74	Controllable Ferroelastic Switching in Epitaxial Self-Assembled Aurivillius Nanobricks. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7296-7302.	4.0	9
75	Water-plasma-activated g-C ₃ N ₄ for enhanced photodegradation of bisphenol A synergized with persulfate oxidation. <i>Applied Surface Science</i> , 2022, 592, 153163.	3.1	9
76	A promising treatment method for Cr(VI) detoxification and recovery by coupling FeO/Fe ₃ C/C fine powders and circulating fluidized bed. <i>Chemical Engineering Journal</i> , 2020, 398, 125565.	6.6	8
77	Silvered TiO ₂ for Facet-Dependent Photocatalytic Denitrification. <i>ACS Applied Nano Materials</i> , 0, , .	2.4	7
78	Optical and photocatalytic properties of sulfide semiconductor quantum dots (QDs) synthesized by silk fibroin template. <i>Materials Letters</i> , 2008, 62, 2754-2757.	1.3	6
79	Fabrication of Biocompatible Zn ²⁺ /Cysteine Nanowires and Their Application in Selective Fluorescence Detection of Cu ²⁺ . <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 8356-8361.	0.9	4
80	Characterization on the formation mechanism of FeO/Fe ₃ C/C nanostructure and its effect on PMS activation performance towards BPA degradation. <i>Chemical Engineering Journal</i> , 2022, 435, 134709.	6.6	3
81	Synthesis of aligned ripple-like and helical structure silica fibres. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1041-1045.	1.5	2