Xiaoqing Qiu

List of Publications by Year in descending order

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95	9,934	57631	38300
papers	citations	44 h-index	95 g-index

97	97	97	12046
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Defect-rich and ultrathin N doped carbon nanosheets as advanced trifunctional metal-free electrocatalysts for the ORR, OER and HER. Energy and Environmental Science, 2019, 12, 322-333.	15.6	1,078
2	Iodine Modified Carbon Nitride Semiconductors as Visible Light Photocatalysts for Hydrogen Evolution. Advanced Materials, 2014, 26, 805-809.	11.1	1,033
3	Carbon Anode Materials for Advanced Sodiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1602898.	10.2	858
4	Product selectivity of photocatalytic CO2 reduction reactions. Materials Today, 2020, 32, 222-243.	8.3	719
5	Hybrid Cu_xO/TiO₂ Nanocomposites As Risk-Reduction Materials in Indoor Environments. ACS Nano, 2012, 6, 1609-1618.	7.3	387
6	Energy-Level Matching of Fe(III) Ions Grafted at Surface and Doped in Bulk for Efficient Visible-Light Photocatalysts. Journal of the American Chemical Society, 2013, 135, 10064-10072.	6.6	263
7	Cu(II) Oxide Amorphous Nanoclusters Grafted Ti³⁺ Self-Doped TiO₂: An Efficient Visible Light Photocatalyst. Chemistry of Materials, 2011, 23, 5282-5286.	3.2	262
8	Graphitic Carbon Nitride with Dopant Induced Charge Localization for Enhanced Photoreduction of CO₂ to CH₄. Advanced Science, 2019, 6, 1900796.	5.6	251
9	Dispersed Cu₂O Octahedrons on h-BN Nanosheets for p-Nitrophenol Reduction. ACS Applied Materials & Interfaces, 2014, 6, 14469-14476.	4.0	234
10	Origin of the Enhanced Photocatalytic Activities of Semiconductors: A Case Study of ZnO Doped with Mg²⁺. Journal of Physical Chemistry C, 2008, 112, 12242-12248.	1.5	229
11	Oxygen Vacancies Evoked Blue TiO₂(B) Nanobelts with Efficiency Enhancement in Sodium Storage Behaviors. Advanced Functional Materials, 2017, 27, 1700856.	7.8	212
12	Visible-Light-Driven Cu(II)â^'(Sr_{1â^'y}Na_y)(Ti_{1â^'x}Mo_x)O₃ Photocatalysts Based on Conduction Band Control and Surface Ion Modification. Journal of the American Chemical Society, 2010, 132, 15259-15267.	6.6	197
13	Insights into the photosensitivity activity of BiOCl under visible light irradiation. Applied Catalysis B: Environmental, 2014, 158-159, 182-189.	10.8	181
14	Layerâ€Tunable Phosphorene Modulated by the Cation Insertion Rate as a Sodiumâ€Storage Anode. Advanced Materials, 2017, 29, 1702372.	11.1	162
15	Hierarchical BiOCl microflowers with improved visible-light-driven photocatalytic activity by Fe(III) modification. Applied Catalysis B: Environmental, 2015, 174-175, 105-112.	10.8	155
16	Stable colloidal boron nitride nanosheet dispersion and its potential application in catalysis. Journal of Materials Chemistry A, 2013, 1, 12192.	5.2	151
17	Accelerating CO₂ Electroreduction to Multicarbon Products via Synergistic Electricâ€“Thermal Field on Copper Nanoneedles. Journal of the American Chemical Society, 2022, 144, 3039-3049.	6.6	147
18	Controllable Interlayer Spacing of Sulfurâ€Doped Graphitic Carbon Nanosheets for Fast Sodiumâ€Ion Batteries. Small, 2017, 13, 1700762.	5.2	144

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19	Visible-Light-Sensitive Photocatalysts: Nanocluster-Grafted Titanium Dioxide for Indoor Environmental Remediation. Journal of Physical Chemistry Letters, 2016, 7, 75-84.	2.1	138
20	ZnO Twin-Cones: Synthesis, Photoluminescence, and Catalytic Decomposition of Ammonium Perchlorate. Inorganic Chemistry, 2008, 47, 4146-4152.	1.9	131
21	Enhanced Photoactivity with Nanocluster-Grafted Titanium Dioxide Photocatalysts. ACS Nano, 2014, 8, 7229-7238.	7.3	120
22	Enhanced photocatalytic activity of Bi2O3 under visible light irradiation by Cu(II) clusters modification. Applied Catalysis B: Environmental, 2013, 142-143, 598-603.	10.8	118
23	Tuning Charge Distribution of FeN₄ via External N for Enhanced Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 6304-6315.	5.5	114
24	Quantum-Dot-Derived Catalysts for CO2 Reduction Reaction. Joule, 2019, 3, 1703-1718.	11.7	106
25	Doping effects of Co²⁺ions on ZnO nanorods and their photocatalytic properties. Nanotechnology, 2008, 19, 215703.	1.3	104
26	Atomically Dispersed sâ€Block Magnesium Sites for Electroreduction of CO₂ to CO. Angewandte Chemie - International Edition, 2021, 60, 25241-25245.	7.2	104
27	Transition Metal Selenides for Electrocatalytic Hydrogen Evolution Reaction. ChemElectroChem, 2020, 7, 31-54.	1.7	103
28	Composition Engineering Boosts Voltage Windows for Advanced Sodium-Ion Batteries. ACS Nano, 2019, 13, 10787-10797.	7.3	90
29	Plasmonic MoO3-x nanosheets with tunable oxygen vacancies as efficient visible light responsive photocatalyst. Applied Surface Science, 2019, 490, 395-402.	3.1	86
30	Ligand Engineering in Nickel Phthalocyanine to Boost the Electrocatalytic Reduction of CO₂. Advanced Functional Materials, 2022, 32, .	7.8	80
31	Co single-atoms on ultrathin N-doped porous carbon via a biomass complexation strategy for high performance metalâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 2131-2139.	5.2	68
32	Untying thioether bond structures enabled by â€œvoltage-scissorsâ€•for stable room temperature sodiumâ€“sulfur batteries. Nanoscale, 2019, 11, 5967-5973.	2.8	66
33	Surfactant-assisted controlled synthesis of a metal-organic framework on Fe2O3 nanorod for boosted photoelectrochemical water oxidation. Chemical Engineering Journal, 2020, 379, 122256.	6.6	64
34	Machine Learning in Screening High Performance Electrocatalysts for CO₂ Reduction. Small Methods, 2021, 5, e2100987.	4.6	60
35	Metallic MoO₂â€Modified Graphitic Carbon Nitride Boosting Photocatalytic CO₂Reduction via Schottky Junction. Solar Rrl, 2020, 4, 1900416.	3.1	59
36	Defect-Induced Ce-Doped Bi₂WO₆ for Efficient Electrocatalytic N₂ Reduction. ACS Applied Materials & Interfaces, 2021, 13, 19864-19872.	4.0	59

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37	Enhancement of photocatalytic activities in hierarchical BiOBr microï¬‚owers induced by oxygen vacancies. Catalysis Today, 2019, 335, 193-199.	2.2	58
38	Nature of the abnormal band gap narrowing in highly crystalline Zn1â^'xCoxO nanorods. Applied Physics Letters, 2006, 88, 114103.	1.5	56
39	Modulating Charge Transfer Efficiency of Hematite Photoanode with Hybrid Dualâ€Metalâ€“Organic Frameworks for Boosting Photoelectrochemical Water Oxidation. Advanced Science, 2020, 7, 2002563.	5.6	56
40	Antimony Anchored with Nitrogen-Doping Porous Carbon as a High-Performance Anode Material for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 26118-26125.	4.0	55
41	Cobalt Nanoparticles Encapsulated in Nitrogen-Doped Carbon Shells: Efficient and Stable Catalyst for Nitrobenzene Reduction. Industrial & Engineering Chemistry Research, 2020, 59, 4367-4376.	1.8	55
42	Cu(<scp>ii</scp>) nanocluster-grafted, Nb-doped TiO₂ as an efficient visible-light-sensitive photocatalyst based on energy-level matching between surface and bulk states. Journal of Materials Chemistry A, 2014, 2, 13571-13579.	5.2	49
43	Chemoselective hydrogenation of nitrobenzenes activated with tuned Au/h-BN. Journal of Catalysis, 2019, 370, 55-60.	3.1	48
44	Ultra-thin carbon nitride nanosheets for efficient photocatalytic hydrogen evolution. Chemical Engineering Journal, 2022, 442, 136115.	6.6	48
45	Boron nitride encapsulated copper nanoparticles: a facile one-step synthesis and their effect on thermal decomposition of ammonium perchlorate. Scientific Reports, 2015, 5, 16736.	1.6	46
46	Magnetically recyclable Ni@h-BN composites for efficient hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2017, 42, 16003-16011.	3.8	46
47	Plasma-treatment induced H2O dissociation for the enhancement of photocatalytic CO2 reduction to CH4 over graphitic carbon nitride. Applied Surface Science, 2020, 508, 145173.	3.1	44
48	Correlation between size-induced lattice variations and yellow emission shift in ZnO nanostructures. Applied Physics Letters, 2005, 87, 124101.	1.5	42
49	Graphitic Carbon Nitride for Photoelectrochemical Detection of Environmental Pollutants. ACS ES&T Engineering, 2022, 2, 140-157.	3.7	41
50	Hollow-sphere ZnSe wrapped around carbon particles as a cycle-stable and high-rate anode material for reversible Li-ion batteries. New Journal of Chemistry, 2017, 41, 6693-6699.	1.4	40
51	In Situ Formation of WO₃-Based Heterojunction Photoanodes with Abundant Oxygen Vacancies via a Novel Microbattery Method. ACS Applied Materials & Interfaces, 2019, 11, 15467-15477.	4.0	39
52	Stabilizing CuGaS₂ by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO₂ reduction under visible light. Nanoscale, 2020, 12, 8693-8700.	2.8	39
53	Visible light photocatalytic activity induced by Rh(III) modification on the surface of BiOCl. Applied Surface Science, 2016, 387, 45-50.	3.1	38
54	Solution evaporation processed high quality perovskite films. Science Bulletin, 2018, 63, 1591-1596.	4.3	34

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55	A highly efficient photoelectrochemical sensor for detection of chlorpyrifos based on 2D/2D Î²-Bi₂O₃/g-C₃N₄ heterojunctions. Environmental Science: Nano, 2021, 8, 773-783.	2.2	33
56	Surface hydroxyl groups functionalized graphite carbon nitride for high efficient removal of diquat dibromide from water. Journal of Colloid and Interface Science, 2021, 582, 70-80.	5.0	32
57	The release of hydrogen from ammonia borane over copper/hexagonal boron nitride composites. RSC Advances, 2016, 6, 106211-106217.	1.7	31
58	Reaction mechanism of visible-light responsive Cu(II)-grafted Mo-doped SrTiO3 photocatalyst studied by means of ESR spectroscopy and chemiluminescence photometry. Applied Catalysis B: Environmental, 2012, 111-112, 636-640.	10.8	30
59	One-step synthesis of magnetically recyclable Co@BN coreâ€“shell nanocatalysts for catalytic reduction of nitroarenes. RSC Advances, 2017, 7, 35451-35459.	1.7	29
60	Porous cubic bismuth oxide nanospheres: A facile synthesis and their conversion to bismuth during the reduction of nitrobenzenes. Chemical Engineering Science, 2015, 131, 155-161.	1.9	28
61	In situ synthesis of g-C3N4/TiO2 with {001} and {101} facets coexposed for water remediation. Applied Surface Science, 2019, 487, 322-334.	3.1	27
62	Copper Isolated Sites on N-Doped Carbon Nanoframes for Efficient Oxygen Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 14030-14038.	3.2	27
63	Nanorod-assembled NiCo₂O₄ hollow microspheres assisted by an ionic liquid as advanced electrode materials for supercapacitors. RSC Advances, 2017, 7, 11123-11128.	1.7	26
64	Recent advances in different-dimension electrocatalysts for carbon dioxide reduction. Journal of Colloid and Interface Science, 2019, 550, 17-47.	5.0	26
65	A regenerative photoelectrochemical sensor based on functional porous carbon nitride for Cu2+ detection. Microchemical Journal, 2020, 156, 104922.	2.3	26
66	Insights into the development of Cu-based photocathodes for carbon dioxide (CO₂) conversion. Green Chemistry, 2021, 23, 3207-3240.	4.6	26
67	A facile one-pot synthesis of Cuâ€“Cu₂O concave cube hybrid architectures. CrystEngComm, 2014, 16, 4967-4972.	1.3	25
68	Hydrogenation of nitroarenes into aromatic amines over Ag@BCN colloidal catalysts. Journal of Colloid and Interface Science, 2016, 477, 131-137.	5.0	25
69	High-rate sodium ion anodes assisted by N-doped carbon sheets. Sustainable Energy and Fuels, 2017, 1, 1130-1136.	2.5	23
70	Highly efficient and stable indium single-atom catalysts for electrocatalytic reduction of CO₂ to formate. Chemical Communications, 2022, 58, 3007-3010.	2.2	23
71	Mesoporous Iron Trifluoride Microspheres as Cathode Materials for Li-ion Batteries. Electrochimica Acta, 2015, 151, 355-362.	2.6	22
72	Enhanced stability and catalytic activity of bismuth nanoparticles by modified with porous silica. Journal of Physics and Chemistry of Solids, 2017, 110, 9-14.	1.9	22

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73	Atomically Dispersed sâ€Block Magnesium Sites for Electroreduction of CO₂ to CO. Angewandte Chemie, 2021, 133, 25445-25449.	1.6	22
74	Photoelectrochemical detection of breast cancer biomarker based on hexagonal carbon nitride tubes. Analytical and Bioanalytical Chemistry, 2019, 411, 6889-6897.	1.9	21
75	Efficient upcycling electroplating sludge and waste PET into Ni-MOF nanocrystals for the effective photoreduction of CO₂. Environmental Science: Nano, 2021, 8, 390-398.	2.2	19
76	Hydroxyl/amino and Fe(III) co-grafted graphite carbon nitride for photocatalytic removal of volatile organic compounds. Environmental Research, 2021, 197, 111044.	3.7	19
77	Nanoâ€confined Mo₂C Particles Embedded in a Porous Carbon Matrix: A Promising Anode for Ultraâ€stable Na Storage. ChemElectroChem, 2017, 4, 2669-2676.	1.7	17
78	Oneâ€Pot Synthesis of Novel B, N Coâ€“Doped Carbon Materials for Highâ€Performance Sodiumâ€Ion Batteries. ChemistrySelect, 2019, 4, 6445-6450.	0.7	17
79	Ag1.69Sb2.27O6.25 coupled carbon nitride photocatalyst with high redox potential for efficient multifunctional environmental applications. Applied Surface Science, 2019, 487, 82-90.	3.1	14
80	CoN4 active sites in locally distorted carbon structure for efficient oxygen reduction reaction via regulating coordination environment. Chemical Engineering Journal, 2022, 429, 132119.	6.6	14
81	Constructing hierarchical sulfur-doped nitrogenous carbon nanosheets for sodium-ion storage. Nanotechnology, 2017, 28, 445604.	1.3	13
82	An â€œon-off-super onâ€•photoelectrochemical sensor based on quenching by Cu-induced surface exciton trapping and signal amplification of copper sulfide/porous carbon nitride heterojunction. Chemosphere, 2021, 267, 129218.	4.2	13
83	Tuning Active Species in N-Doped Carbon with Fe/Fe₃C Nanoparticles for Efficient Oxygen Reduction Reaction. Inorganic Chemistry, 2022, 61, 3166-3175.	1.9	13
84	Inheriting morphology and photoluminescence properties of MgO nanoplates. Journal of Materials Research, 2007, 22, 908-912.	1.2	12
85	Bismuth vanadate single crystal particles modified with tungsten for efficient photoeletrochemical water oxidation. Catalysis Today, 2019, 335, 511-519.	2.2	12
86	Dual Inorganic Sacrificial Template Synthesis of Hierarchically Porous Carbon with Specific N Sites for Efficient Oxygen Reduction. ACS Applied Materials & Interfaces, 2021, 13, 28140-28149.	4.0	12
87	A porous carbon nitride modified with cobalt phosphide as an efficient visible-light harvesting nanocomposite for photoelectrochemical enzymatic sensing of glucose. Mikrochimica Acta, 2019, 186, 856.	2.5	10
88	Zâ€Scheme cathodic photoelectrochemical sensors for detection of hydrogen sulfide based on AgCl-Ag coupled with porous carbon nitride. Applied Surface Science, 2020, 532, 147424.	3.1	10
89	Efficient three-phase electrocatalytic CO₂ reduction to formate on superhydrophobic Biâ€“C interfaces. Chemical Communications, 2021, 57, 6011-6014.	2.2	10
90	Cu(II)-Grafted Carbon Nitride Quantum Dots with High Crystallinity for Photoelectrochemical Detection Application. Industrial & Engineering Chemistry Research, 2022, 61, 6301-6310.	1.8	10

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91	Electronic structure and photocatalytic activities of (Bi2â^'Y)Sn2O7 solid solution. Applied Surface Science, 2015, 357, 2364-2371.	3.1	9
92	Bismuth(III)-Doped NaYbF₄:Tm³⁺ Fluorides with Highly Efficient Upconversion Emission under Low Irradiance. Inorganic Chemistry, 2020, 59, 7752-7760.	1.9	8
93	Low-temperature route to prepare rare earth fluorides in a molten NH4NO3 system: a systematic study on the effects of NaF/Ln ratio and the reaction temperature and time. CrystEngComm, 2019, 21, 182-189.	1.3	5
94	An innovative inÂvitro assay to study the effects of aromatic pollutants on porphyrin systems. Environmental Pollution, 2020, 264, 114606.	3.7	3
95	Trash to treasure: Converting red mud into efficient catalysts for the hydrogenation of p-nitrobenzene compounds. Journal of Environmental Chemical Engineering, 2022, 10, 108161.	3.3	3