Chunxian Guo

List of Publications by Year
in descending order

60 papers	10,651 citations	136885 32 h-index	123376 61 g-index
61 all docs	61 docs citations	61 times ranked	13670 citing authors

#	Article	IF	Citations
1	Carbonâ€Based Dots Coâ€doped with Nitrogen and Sulfur for High Quantum Yield and Excitationâ€Independent Emission. Angewandte Chemie - International Edition, 2013, 52, 7800-7804.	7.2	1,872
2	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. Chemical Reviews, 2018, 118, 6337-6408.	23.0	1,552
3	Rational design of electrocatalysts and photo(electro)catalysts for nitrogen reduction to ammonia (NH₃) under ambient conditions. Energy and Environmental Science, 2018, 11, 45-56.	15.6	1,217
4	Surface and Interface Engineering of Noble-Metal-Free Electrocatalysts for Efficient Energy Conversion Processes. Accounts of Chemical Research, 2017, 50, 915-923.	7.6	824
5	One-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black. Journal of Materials Chemistry, 2012, 22, 8764.	6.7	546
6	Design Strategies toward Advanced MOFâ€Derived Electrocatalysts for Energyâ€Conversion Reactions. Advanced Energy Materials, 2017, 7, 1700518.	10.2	539
7	Charge-Redistribution-Enhanced Nanocrystalline Ru@IrOx Electrocatalysts for Oxygen Evolution in Acidic Media. CheM, 2019, 5, 445-459.	5.8	354
8	A 3D Hybrid of Chemically Coupled Nickel Sulfide and Hollow Carbon Spheres for High Performance Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2017, 27, 1702524.	7.8	340
9	Two-dimensional metalâ€“organic frameworks with high oxidation states for efficient electrocatalytic urea oxidation. Chemical Communications, 2017, 53, 10906-10909.	2.2	328
10	Engineering Highâ€Energy Interfacial Structures for Highâ€Performance Oxygenâ€Involving Electrocatalysis. Angewandte Chemie - International Edition, 2017, 56, 8539-8543.	7.2	314
11	Engineering pristine 2D metalâ€“organic framework nanosheets for electrocatalysis. Journal of Materials Chemistry A, 2020, 8, 8143-8170.	5.2	180
12	Spatially Separating Redox Centers on Zâ€Scheme ZnIn₂S₄/BiVO₄ Hierarchical Heterostructure for Highly Efficient Photocatalytic Hydrogen Evolution. Small, 2020, 16, e2002988.	5.2	177
13	NiO/Graphene Composite for Enhanced Charge Separation and Collection in p-Type Dye Sensitized Solar Cell. Journal of Physical Chemistry C, 2011, 115, 12209-12215.	1.5	160
14	Bi-functional ferroelectric BiFeO 3 passivated BiVO 4 photoanode for efficient and stable solar water oxidation. Nano Energy, 2017, 31, 28-36.	8.2	150
15	Intermediate Modulation on Noble Metal Hybridized to 2D Metal-Organic Framework for Accelerated Water Electrocatalysis. CheM, 2019, 5, 2429-2441.	5.8	150
16	Theoretical Insights into Superior Nitrate Reduction to Ammonia Performance of Copper Catalysts. ACS Catalysis, 2021, 11, 14417-14427.	5.5	150
17	Bimodal nanoporous Pd3Cu1 alloy with restrained hydrogen evolution for stable and high yield electrochemical nitrogen reduction. Nano Energy, 2019, 58, 834-841.	8.2	145
18	Direct electrochemistry of hemoglobin on carbonized titania nanotubes and its application in a sensitive reagentless hydrogen peroxide biosensor. Biosensors and Bioelectronics, 2008, 24, 819-824.	5.3	124

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19	Single-Atom Ruthenium Biomimetic Enzyme for Simultaneous Electrochemical Detection of Dopamine and Uric Acid. Analytical Chemistry, 2021, 93, 4916-4923.	3.2	119
20	Nanostructured 2D Materials: Prospective Catalysts for Electrochemical CO₂ Reduction. Small Methods, 2017, 1, 1600006.	4.6	112
21	Ambient-Stable Black Phosphorus-Based 2D/2D S-Scheme Heterojunction for Efficient Photocatalytic CO₂ Reduction to Syngas. ACS Applied Materials & Interfaces, 2021, 13, 20162-20173.	4.0	111
22	Strategies for designing more efficient electrocatalysts towards the urea oxidation reaction. Journal of Materials Chemistry A, 2022, 10, 3296-3313.	5.2	80
23	Single-Atom Cobalt-Based Electrochemical Biomimetic Uric Acid Sensor with Wide Linear Range and Ultralow Detection Limit. Nano-Micro Letters, 2021, 13, 7.	14.4	76
24	Metasequoiaâ€like Nanocrystal of Ironâ€Doped Copper for Efficient Electrocatalytic Nitrate Reduction into Ammonia in Neutral Media. ChemSusChem, 2021, 14, 1825-1829.	3.6	75
25	DNAâ€Templated Biomimetic Enzyme Sheets on Carbon Nanotubes to Sensitively In Situ Detect Superoxide Anions Released from Cells. Advanced Functional Materials, 2014, 24, 5897-5903.	7.8	59
26	Recent Advances of Twoâ€Dimensional (2â€‰D) MXenes and Phosphorene for Highâ€Performance Rechargeable Batteries. ChemSusChem, 2020, 13, 1047-1070.	3.6	59
27	Metal-free heterojunction of black phosphorus/oxygen-enriched porous g-C₃N₄ as an efficient photocatalyst for Fenton-like cascade water purification. Journal of Materials Chemistry A, 2020, 8, 19484-19492.	5.2	51
28	Reduction of Charge Recombination by an Amorphous Titanium Oxide Interlayer in Layered Graphene/Quantum Dots Photochemical Cells. ACS Applied Materials & Interfaces, 2011, 3, 1940-1945.	4.0	45
29	Effect of supporting matrixes on performance of copper catalysts in electrochemical nitrate reduction to ammonia. Journal of Power Sources, 2021, 511, 230463.	4.0	41
30	Functionalized MXenes for efficient electrocatalytic nitrate reduction to ammonia. Journal of Materials Chemistry A, 2022, 10, 8923-8931.	5.2	41
31	Screen-printed analytical strip constructed with bacteria-templated porous N-doped carbon nanorods/Au nanoparticles for sensitive electrochemical detection of dopamine molecules. Biosensors and Bioelectronics, 2021, 186, 113303.	5.3	34
32	Real-time photoelectrochemical quantification of hydrogen peroxide produced by living cells. Chemical Engineering Journal, 2021, 407, 127203.	6.6	32
33	Temperatureâ€Dependent CATâ€Like RGDâ€BPNS@SMFN Nanoplatform for PTTâ€PDT Selfâ€Synergetic Tumor Phototherapy. Advanced Healthcare Materials, 2022, 11, e2102298.	3.9	29
34	Ga doping to significantly improve the performance of all-electrochemically fabricated Cu2Oâ€“ZnO nanowire solar cells. Physical Chemistry Chemical Physics, 2013, 15, 15905.	1.3	28
35	Atomic matching catalysis to realize a highly selective and sensitive biomimetic uric acid sensor. Biosensors and Bioelectronics, 2019, 141, 111421.	5.3	28
36	Active sites-rich layered double hydroxide for nitrate-to-ammonia production with high selectivity and stability. Chemical Engineering Journal, 2022, 434, 134641.	6.6	26

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37	Nitrogen and sulfur Co-doped graphene inlaid with cobalt clusters for efficient oxygen reduction reaction. Materials Today Energy, 2018, 10, 184-190.	2.5	24
38	3D Pt/Graphene foam bioplatform for highly sensitive and selective in-situ adsorption and detection of superoxide anions released from living cells. Sensors and Actuators B: Chemical, 2019, 287, 209-217.	4.0	23
39	Highly stable branched cationic polymer-functionalized black phosphorus electrochemical sensor for fast and direct ultratrace detection of copper ion. Journal of Colloid and Interface Science, 2021, 603, 131-140.	5.0	23
40	Nitrogen doping to atomically match reaction sites in microbial fuel cells. Communications Chemistry, 2020, 3, .	2.0	19
41	Molecularly assembled graphdiyne with atomic sites for ultrafast and real-time detection of nitric oxide in cell assays. Biosensors and Bioelectronics, 2022, 195, 113630.	5.3	19
42	A coreâ€“shell copper oxides-cobalt oxides heterostructure nanowire arrays for nitrate reduction to ammonia with high yield rate. Green Energy and Environment, 2023, 8, 1619-1629.	4.7	18
43	Selective electroreduction of nitrate to ammonia with high Faradaic efficiency on nanocrystalline silver. Electrochemistry Communications, 2021, 131, 107121.	2.3	17
44	Oxidase Mimic Graphdiyne for Efficient Superoxide Generation in Wide pH Ranges. Advanced Functional Materials, 2022, 32, 2110192.	7.8	17
45	Construction of BiVO4/NiCo2O4 nanosheet Z-scheme heterojunction for highly boost solar water oxidation. Journal of Colloid and Interface Science, 2022, 613, 265-275.	5.0	17
46	Interface engineering cerium-doped copper nanocrystal for efficient electrochemical nitrate-to-ammonia production. Electrochimica Acta, 2022, 411, 140095.	2.6	15
47	Engineering transition metal-based nanomaterials for high-performance electrocatalysis. Materials Reports Energy, 2021, 1, 100006.	1.7	14
48	Interface functionalization with polymer self-assembly to boost photovoltage of Cu 2 O/ZnO nanowires solar cells. International Journal of Hydrogen Energy, 2014, 39, 16227-16233.	3.8	13
49	Sandwiching Phosphorene with Iron Porphyrin Monolayer for High Stability and Its Biomimetic Sensor to Sensitively Detect Living Cell Released NO. Advanced Science, 2022, 9, e2104066.	5.6	13
50	Surface-mediated iron on porous cobalt oxide with high energy state for efficient water oxidation electrocatalysis. Green Energy and Environment, 2022, 7, 662-671.	4.7	12
51	Electrospinning iron-doped carbon fiber to simultaneously boost both mediating and direct biocatalysis for high-performance microbial fuel cell. Journal of Power Sources, 2022, 530, 231277.	4.0	12
52	Three-dimensional cell-adhesive matrix of silk cocoon derived carbon fiber assembled with iron-porphyrin for monitoring cell released signal molecules. Sensors and Actuators B: Chemical, 2021, 334, 129594.	4.0	11
53	Oxygen plasma induced interfacial CoOx/Phthalocyanine Cobalt as bifunctional electrocatalyst towards oxygen-involving reactions. International Journal of Hydrogen Energy, 2022, 47, 9905-9914.	3.8	11
54	Observation of 4th-order water oxidation kinetics by time-resolved photovoltage spectroscopy. IScience, 2021, 24, 103500.	1.9	8

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55	Sensitive glucometer-based microfluidic immune-sensing platform via DNA signal amplification coupled with enzymatic reaction. Sensors and Actuators B: Chemical, 2021, 329, 129055.	4.0	7
56	Mn-Etched Zeolitic Imidazolate Framework-67 Nanostructures for Biomimetic Superoxide Anion Sensing. ACS Applied Nano Materials, 2022, 5, 6268-6276.	2.4	5
57	Vanadium pentoxide flat-nanofiber networked thin layer-structure to initiate intercalated polymerization for rapidly producing superior conductive hydrogel and its biomimetic hydrogen peroxide sensing application. Journal of Colloid and Interface Science, 2022, 615, 357-365.	5.0	4
58	Photoelectrochemical quantification of hydrogen peroxide with g-C3N4/BiFeO3. Sensors and Actuators Reports, 2022, 4, 100079.	2.3	4
59	Imidazole-induced manganese oxide nanocrystals on carbon nanofiber hybridized with gold nanoparticles as bifunctional biomimetic enzyme in live-cell assays. Journal of Colloid and Interface Science, 2022, 614, 288-297.	5.0	1
60	Nannochloropsis Oceanica derived nitrogen-rich macroporous carbon for bi-atomic matching-catalytic flexible dopamine sensor. Biosensors and Bioelectronics: X, 2022, , 100184.	0.9	1