

Chun Xian Guo

List of Publications by Citations

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153
papers

13,810
citations

55
h-index

117
g-index

160
ext. papers

15,902
ext. citations

10.7
avg, IF

7.04
L-index

#	Paper	IF	Citations
153	Carbon-based dots co-doped with nitrogen and sulfur for high quantum yield and excitation-independent emission. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7800-4	16.4	1562
152	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. <i>Chemical Reviews</i> , 2018 , 118, 6337-6408	68.1	1057
151	Rational design of electrocatalysts and photo(electro)catalysts for nitrogen reduction to ammonia (NH ₃) under ambient conditions. <i>Energy and Environmental Science</i> , 2018 , 11, 45-56	35.4	887
150	Surface and Interface Engineering of Noble-Metal-Free Electrocatalysts for Efficient Energy Conversion Processes. <i>Accounts of Chemical Research</i> , 2017 , 50, 915-923	24.3	672
149	Layered graphene/quantum dots for photovoltaic devices. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3014-7	16.4	571
148	One-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8764		466
147	Design Strategies toward Advanced MOF-Derived Electrocatalysts for Energy-Conversion Reactions. <i>Advanced Energy Materials</i> , 2017 , 7, 1700518	21.8	406
146	A self-assembled hierarchical nanostructure comprising carbon spheres and graphene nanosheets for enhanced supercapacitor performance. <i>Energy and Environmental Science</i> , 2011 , 4, 4504	35.4	326
145	Biomolecule-assisted synthesis of cobalt sulfide nanowires for application in supercapacitors. <i>Journal of Power Sources</i> , 2008 , 180, 676-681	8.9	278
144	A 3D Hybrid of Chemically Coupled Nickel Sulfide and Hollow Carbon Spheres for High Performance Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1702524	15.6	265
143	Graphene/carbon cloth anode for high-performance mediatorless microbial fuel cells. <i>Bioresource Technology</i> , 2012 , 114, 275-80	11	258
142	A Hierarchically Nanostructured Composite of MnO ₂ /Conjugated Polymer/Graphene for High-Performance Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2011 , 1, 736-741	21.8	255
141	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8539-8543	16.4	254
140	Two-dimensional metal-organic frameworks with high oxidation states for efficient electrocatalytic urea oxidation. <i>Chemical Communications</i> , 2017 , 53, 10906-10909	5.8	218
139	Charge-Redistribution-Enhanced Nanocrystalline Ru@IrO _x Electrocatalysts for Oxygen Evolution in Acidic Media. <i>Chem</i> , 2019 , 5, 445-459	16.2	205
138	CeO ₂ nanoparticles/graphene nanocomposite-based high performance supercapacitor. <i>Dalton Transactions</i> , 2011 , 40, 6388-91	4.3	204
137	DNA-Functionalized Graphene to Guide Growth of Highly Active Pd Nanocrystals as Efficient Electrocatalyst for Direct Formic Acid Fuel Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 167-171	21.8	185

136	Graphene Quantum Dots as a Green Sensitizer to Functionalize ZnO Nanowire Arrays on F-Doped SnO ₂ Glass for Enhanced Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2013 , 3, 997-1003	21.8	174
135	Carbon-decorated ZnO nanowire array: A novel platform for direct electrochemistry of enzymes and biosensing applications. <i>Electrochemistry Communications</i> , 2009 , 11, 202-205	5.1	170
134	Biointerface by cell growth on layered graphene-artificial peroxidase-protein nanostructure for in situ quantitative molecular detection. <i>Advanced Materials</i> , 2010 , 22, 5164-7	24	167
133	Construction of one-dimensional nanostructures on graphene for efficient energy conversion and storage. <i>Energy and Environmental Science</i> , 2014 , 7, 2559	35.4	155
132	Graphene quantum-dot-doped polypyrrole counter electrode for high-performance dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2047-52	9.5	149
131	RGD-peptide functionalized graphene biomimetic live-cell sensor for real-time detection of nitric oxide molecules. <i>ACS Nano</i> , 2012 , 6, 6944-51	16.7	149
130	NiO/Graphene Composite for Enhanced Charge Separation and Collection in p-Type Dye Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12209-12215	3.8	149
129	Carbon-Based Dots Co-doped with Nitrogen and Sulfur for High Quantum Yield and Excitation-Independent Emission. <i>Angewandte Chemie</i> , 2013 , 125, 7954-7958	3.6	145
128	Na ⁺ -functionalized carbon quantum dots: a new draw solute in forward osmosis for seawater desalination. <i>Chemical Communications</i> , 2014 , 50, 7318-21	5.8	137
127	Porphyrin Functionalized Graphene for Sensitive Electrochemical Detection of Ultratrace Explosives. <i>Electroanalysis</i> , 2011 , 23, 885-893	3	130
126	Ionic liquid-graphene composite for ultratrace explosive trinitrotoluene detection. <i>Electrochemistry Communications</i> , 2010 , 12, 1237-1240	5.1	124
125	Lychee-like FeS ₂ @FeSe ₂ core-shell microspheres anode in sodium ion batteries for large capacity and ultralong cycle life. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19195-19202	13	120
124	Direct electron transfer of glucose oxidase and biosensing of glucose on hollow sphere-nanostructured conducting polymer/metal oxide composite. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12153-9	3.6	116
123	Bi-functional ferroelectric BiFeO ₃ passivated BiVO ₄ photoanode for efficient and stable solar water oxidation. <i>Nano Energy</i> , 2017 , 31, 28-36	17.1	113
122	Direct electrochemistry of hemoglobin on carbonized titania nanotubes and its application in a sensitive reagentless hydrogen peroxide biosensor. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 825-30	11.8	113
121	Bimodal nanoporous Pd ₃ Cu ₁ alloy with restrained hydrogen evolution for stable and high yield electrochemical nitrogen reduction. <i>Nano Energy</i> , 2019 , 58, 834-841	17.1	111
120	Intermediate Modulation on Noble Metal Hybridized to 2D Metal-Organic Framework for Accelerated Water Electrocatalysis. <i>CheM</i> , 2019 , 5, 2429-2441	16.2	95
119	Direct growth of flower-like manganese oxide on reduced graphene oxide towards efficient oxygen reduction reaction. <i>Chemical Communications</i> , 2013 , 49, 6334-6	5.8	95

118	Nanostructure control of graphene-composited TiO ₂ by a one-step solvothermal approach for high performance dye-sensitized solar cells. <i>Nanoscale</i> , 2011 , 3, 4613-6	7.7	94
117	Nanostructured 2D Materials: Prospective Catalysts for Electrochemical CO ₂ Reduction. <i>Small Methods</i> , 2017 , 1, 1600006	12.8	92
116	Hydrogen storage in a NiB nanoalloy-doped three-dimensional graphene material. <i>Energy and Environmental Science</i> , 2011 , 4, 195-200	35.4	90
115	Engineering pristine 2D metal-organic framework nanosheets for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8143-8170	13	89
114	Nitrogen doped carbon nanoparticles enhanced extracellular electron transfer for high-performance microbial fuel cells anode. <i>Chemosphere</i> , 2015 , 140, 26-33	8.4	81
113	Electrochemical detection of ultratrace nitroaromatic explosives using ordered mesoporous carbon. <i>Analytica Chimica Acta</i> , 2011 , 683, 187-91	6.6	81
112	Spatially Separating Redox Centers on Z-Scheme ZnIn ₂ S ₄ /BiVO ₄ Hierarchical Heterostructure for Highly Efficient Photocatalytic Hydrogen Evolution. <i>Small</i> , 2020 , 16, e2002988	11	76
111	Hierarchical nanocomposite composed of layered V ₂ O ₅ /PEDOT/MnO ₂ nanosheets for high-performance asymmetric supercapacitors. <i>Nano Energy</i> , 2015 , 12, 76-87	17.1	74
110	Highly Sensitive Nitric Oxide Sensing Using Three-Dimensional Graphene/Ionic Liquid Nanocomposite. <i>Electroanalysis</i> , 2011 , 23, 442-448	3	72
109	Au@CdS Core-Shell Nanoparticles-Modified ZnO Nanowires Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2015 , 2, 1500135	13.6	67
108	Highly sensitive and selective method to detect dopamine in the presence of ascorbic acid by a new polymeric composite film. <i>Analytical Biochemistry</i> , 2007 , 371, 229-37	3.1	67
107	High-performance biofuel cell made with hydrophilic ordered mesoporous carbon as electrode material. <i>Journal of Power Sources</i> , 2010 , 195, 4090-4097	8.9	66
106	DNA-directed growth of FePO ₄ nanostructures on carbon nanotubes to achieve nearly 100% theoretical capacity for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 6919	35.4	65
105	In situ synthesized heteropoly acid/polyaniline/graphene nanocomposites to simultaneously boost both double layer- and pseudo-capacitance for supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12823-8	3.6	64
104	Nanoparticle self-assembled hollow TiO ₂ spheres with well matching visible light scattering for high performance dye-sensitized solar cells. <i>Chemical Communications</i> , 2012 , 48, 8832-4	5.8	64
103	One-step aqueous synthesis of graphene-CdTe quantum dot-composed nanosheet and its enhanced photoresponses. <i>Journal of Colloid and Interface Science</i> , 2011 , 353, 588-92	9.3	64
102	Gold nanoparticles decorated reduced graphene oxide for detecting the presence and cellular release of nitric oxide. <i>Electrochimica Acta</i> , 2013 , 111, 441-446	6.7	58
101	Layered V ₂ O ₅ /PEDOT Nanowires and Ultrathin Nanobelts Fabricated with a Silk Reelinglike Process. <i>Chemistry of Materials</i> , 2015 , 27, 5813-5819	9.6	57

100	Thin-walled graphitic nanocages as a unique platform for amperometric glucose biosensor. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2481-4	9.5	57
99	Template-free bottom-up synthesis of yolk-shell vanadium oxide as high performance cathode for lithium ion batteries. <i>Chemical Communications</i> , 2013 , 49, 1536-8	5.8	55
98	Nanochain-structured mesoporous tungsten carbide and its superior electrocatalysis. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6149		55
97	Hierarchical Graphene-Based Material for Over 4.0 Wt % Physisorption Hydrogen Storage Capacity. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 14-18	8.3	54
96	Graphene-. <i>Solar Energy</i> , 2012 , 86, 2041-2048	6.8	53
95	A new class of fluorescent-dots: long luminescent lifetime bio-dots self-assembled from DNA at low temperatures. <i>Scientific Reports</i> , 2013 , 3, 2957	4.9	52
94	DNA-assisted assembly of carbon nanotubes and MnO ₂ nanospheres as electrodes for high-performance asymmetric supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4672-8	3.6	51
93	DNA-directed growth of Pd nanocrystals on carbon nanotubes towards efficient oxygen reduction reactions. <i>Chemistry - A European Journal</i> , 2012 , 18, 15693-8	4.8	49
92	Ionic liquid/mesoporous carbon/protein composite microelectrode and its biosensing application. <i>Electrochemistry Communications</i> , 2009 , 11, 2105-2108	5.1	49
91	High-Performance Solid-State Supercapacitors Based on V ₂ O ₅ /Carbon Nanotube Composites. <i>ChemElectroChem</i> , 2016 , 3, 158-164	4.3	49
90	DNA-Templated Biomimetic Enzyme Sheets on Carbon Nanotubes to Sensitive In Situ Detect Superoxide Anions Released from Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 5897-5903	15.6	48
89	Reduction of charge recombination by an amorphous titanium oxide interlayer in layered graphene/quantum dots photochemical cells. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1940-5	9.5	44
88	In situ molecular detection of ischemic cells by enhanced protein direct electron transfer on a unique horseradish peroxidase-Au nanoparticles-polyaniline nanowires biofilm. <i>Chemical Communications</i> , 2011 , 47, 2652-4	5.8	43
87	Graphene oxide-enabled tandem signal amplification for sensitive SPRi immunoassay in serum. <i>Chemical Communications</i> , 2014 , 50, 2133-5	5.8	41
86	Mo ₂ C/CNTs supported Pd nanoparticles for highly efficient catalyst towards formic acid electrooxidation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1179-1184	13	39
85	Room temperature-formed iron-doped nickel hydroxide on nickel foam as a 3D electrode for low polarized and high-current-density oxygen evolution. <i>Chemical Communications</i> , 2018 , 54, 3262-3265	5.8	37
84	Self-assembled phosphomolybdic acid/polyaniline/graphene composite-supported efficient catalyst towards methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6687	13	37
83	All-printed carbon nanotube finFETs on plastic substrates for high-performance flexible electronics. <i>Advanced Materials</i> , 2012 , 24, 358-61	24	35

82	Molecule-confined FeOx nanocrystals mounted on carbon as stable anode material for high energy density nickel-iron batteries. <i>Nano Energy</i> , 2017 , 42, 166-172	17.1	35
81	Multi-functional forward osmosis draw solutes for seawater desalination. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 23-30	3.2	34
80	Functionalization of SnO ₂ photoanode through Mg-doping and TiO ₂ coating to synergistically boost dye-sensitized solar cell performance. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6261-5	9.5	34
79	Single-Atom Ruthenium Biomimetic Enzyme for Simultaneous Electrochemical Detection of Dopamine and Uric Acid. <i>Analytical Chemistry</i> , 2021 , 93, 4916-4923	7.8	34
78	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. <i>Angewandte Chemie</i> , 2017 , 129, 8659-8663	3.6	32
77	Nitrogen, Hydrogen, Carbon Dioxide, and Water Vapor Sorption Properties of Three-Dimensional Graphene. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 642-645	2.8	32
76	Ambient-Stable Black Phosphorus-Based 2D/2D S-Scheme Heterojunction for Efficient Photocatalytic CO Reduction to Syngas. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20162-20173	9.5	32
75	Recent Advances of Two-Dimensional (2 D) MXenes and Phosphorene for High-Performance Rechargeable Batteries. <i>ChemSusChem</i> , 2020 , 13, 1047-1070	8.3	31
74	Layered and Heterostructured Pd/PdWCr Sheet-Assembled Nanoflowers as Highly Active and Stable Electrocatalysts for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2020 , 30, 2003933	15.6	30
73	Ethylenediamine-mediated synthesis of MnO ₂ nano-octahedrons and their performance as electrocatalysts for the oxygen evolution reaction. <i>Nanoscale</i> , 2014 , 6, 10896-901	7.7	29
72	A solventless thermolysis route to large-scale production of ultra-small hydrophilic and biocompatible magnetic ferrite nanocrystals and their application for efficient protein enrichment. <i>Green Chemistry</i> , 2014 , 16, 2571	10	27
71	Metal-free heterojunction of black phosphorus/oxygen-enriched porous g-C ₃ N ₄ as an efficient photocatalyst for Fenton-like cascade water purification. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19484-19492	13.7	27
70	Single-Atom Cobalt-Based Electrochemical Biomimetic Uric Acid Sensor with Wide Linear Range and Ultralow Detection Limit. <i>Nano-Micro Letters</i> , 2020 , 13, 7	19.5	26
69	Modification of a thin layer of Fe ₂ O ₃ onto a largely voided TiO ₂ nanorod array as a photoanode to significantly improve the photoelectrochemical performance toward water oxidation. <i>RSC Advances</i> , 2015 , 5, 62611-62618	3.7	24
68	Sensitive protein microarray synergistically amplified by polymer brush-enhanced immobilizations of both probe and reporter. <i>Journal of Colloid and Interface Science</i> , 2011 , 360, 593-9	9.3	24
67	Compact microelectrode array system: tool for in situ monitoring of drug effects on neurotransmitter release from neural cells. <i>Analytical Chemistry</i> , 2008 , 80, 1133-40	7.8	24
66	Core-shell nanoporous AuCu ₃ @Au monolithic electrode for efficient electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3344-3350	13	24
65	Ga doping to significantly improve the performance of all-electrochemically fabricated Cu ₂ O-ZnO nanowire solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15905-11	3.6	23

64	Moderate cooling coprecipitation for extremely small iron oxide as a pH dependent T-MRI contrast agent. <i>Nanoscale</i> , 2020 , 12, 5521-5532	7.7	22
63	Theoretical Insights into Superior Nitrate Reduction to Ammonia Performance of Copper Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 14417-14427	13.1	22
62	Pyro-synthesis of a nanostructured NaTi ₂ (PO ₄) ₃ /C with a novel lower voltage plateau for rechargeable sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2016 , 474, 88-92	9.3	19
61	Nitrogen-doping templated nanoporous graphitic nanocage and its supported catalyst towards efficient methanol oxidation. <i>Electrochemistry Communications</i> , 2012 , 19, 77-80	5.1	19
60	3D Pt/Graphene foam bioplatfrom for highly sensitive and selective in-situ adsorption and detection of superoxide anions released from living cells. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 209-217	8.5	19
59	Investigation of electron transfer from isolated spinach thylakoids to indium tin oxide. <i>RSC Advances</i> , 2014 , 4, 48815-48820	3.7	18
58	TiO ₂ nanowire FET device: encapsulation of biomolecules by electro polymerized pyrrole propylic acid. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2334-40	11.8	18
57	Microelectrodes with gold nanoparticles and self-assembled monolayers for in vivo recording of striatal dopamine. <i>Analyst, The</i> , 2012 , 137, 2813-20	5	17
56	Metasequoia-like Nanocrystal of Iron-Doped Copper for Efficient Electrocatalytic Nitrate Reduction into Ammonia in Neutral Media. <i>ChemSusChem</i> , 2021 , 14, 1825-1829	8.3	17
55	One-pot synthesis of CO ₂ -responsive magnetic nanoparticles with switchable hydrophilicity. <i>Chemistry - A European Journal</i> , 2014 , 20, 14057-62	4.8	16
54	DNA-Promoted Ultrasmall Palladium Nanocrystals on Carbon Nanotubes: Towards Efficient Formic Acid Oxidation. <i>ChemElectroChem</i> , 2014 , 1, 72-75	4.3	16
53	Protein-Directed In Situ Synthesis of Gold Nanoparticles on Reduced Graphene Oxide Modified Electrode for Nonenzymatic Glucose Sensing. <i>Electroanalysis</i> , 2012 , 24, 2348-2353	3	16
52	Real-time photoelectrochemical quantification of hydrogen peroxide produced by living cells. <i>Chemical Engineering Journal</i> , 2021 , 407, 127203	14.7	16
51	Nitrogen and sulfur Co-doped graphene inlaid with cobalt clusters for efficient oxygen reduction reaction. <i>Materials Today Energy</i> , 2018 , 10, 184-190	7	15
50	Atomic matching catalysis to realize a highly selective and sensitive biomimetic uric acid sensor. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111421	11.8	14
49	Strategies for designing more efficient electrocatalysts towards the urea oxidation reaction. <i>Journal of Materials Chemistry A</i> ,	13	13
48	2-D/2-D heterostructured biomimetic enzyme by interfacial assembling Mn ₃ (PO ₄) ₂ and MXene as a flexible platform for realtime sensitive sensing cell superoxide. <i>Nano Research</i> , 2021 , 14, 879-886	10	13
47	Soft- to network hard-material for constructing both ion- and electron-conductive hierarchical porous structure to significantly boost energy density of a supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2017 , 485, 137-143	9.3	12

46	Hydrophilic porous carbon with tailored nanostructure and its sensitive hydrogen peroxide biosensor. <i>RSC Advances</i> , 2012 , 2, 1014-1020	3.7	12
45	Interface functionalization with polymer self-assembly to boost photovoltage of Cu ₂ O/ZnO nanowires solar cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 16227-16233	6.7	11
44	Conductive nonconjugated radical polymer as high capacity organic cathode material for high-energy Li/Na ion batteries. <i>Journal of Power Sources</i> , 2020 , 479, 228796	8.9	11
43	Effect of supporting matrixes on performance of copper catalysts in electrochemical nitrate reduction to ammonia. <i>Journal of Power Sources</i> , 2021 , 511, 230463	8.9	11
42	Recent Advances in Soft Materials to Build and Functionalize Hard Structures for Electrochemical Energy Storage and In situ Electrochemical Molecular Biosensing. <i>Advanced Functional Materials</i> , 2016 , 26, 8824-8853	15.6	10
41	Thermoresponsive magnetic ionic liquids: synthesis and temperature switchable magnetic separation. <i>RSC Advances</i> , 2016 , 6, 15731-15734	3.7	10
40	Screen-printed analytical strip constructed with bacteria-templated porous N-doped carbon nanorods/Au nanoparticles for sensitive electrochemical detection of dopamine molecules. <i>Biosensors and Bioelectronics</i> , 2021 , 186, 113303	11.8	10
39	Discrimination of dopamine by an electrode modified with negatively charged manganese dioxide nanoparticles decorated on a poly(3,4 ethylenedioxythiophene)/reduced graphene oxide composite. <i>Journal of Colloid and Interface Science</i> , 2021 , 597, 314-324	9.3	10
38	Construction of a stable lithium sulfide membrane to greatly confine polysulfides for high performance lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8655-8661	13	8
37	Reply to comment on One-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21777		7
36	Highly stable branched cationic polymer-functionalized black phosphorus electrochemical sensor for fast and direct ultratrace detection of copper ion. <i>Journal of Colloid and Interface Science</i> , 2021 , 603, 131-140	9.3	7
35	Temperature-Dependent CAT-Like RGD-BPNS@SMFN Nanoplatfom for PTT-PDT Self-Synergetic Tumor Phototherapy.. <i>Advanced Healthcare Materials</i> , 2021 , e2102298	10.1	7
34	A high-energy-state biomimetic enzyme of oxygen-deficient MnTiO nanodiscs for sensitive electrochemical sensing of the superoxide anion. <i>Chemical Communications</i> , 2019 , 55, 7836-7839	5.8	6
33	Nitrogen doping to atomically match reaction sites in microbial fuel cells. <i>Communications Chemistry</i> , 2020 , 3,	6.3	6
32	One-Step Fabrication of Unique Mesoporous NiO Hollow Sphere Film on FTO for High-Performance P-Type Dye-Sensitized Solar Cells. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300110	4.6	6
31	Three-dimensional cell-adhesive matrix of silk cocoon derived carbon fiber assembled with iron-porphyrin for monitoring cell released signal molecules. <i>Sensors and Actuators B: Chemical</i> , 2021 , 334, 129594	8.5	6
30	Surface-mediated iron on porous cobalt oxide with high energy state for efficient water oxidation electrocatalysis. <i>Green Energy and Environment</i> , 2020 ,	5.7	5
29	Electrochemically tuning Li _{1+x} FePO ₄ for high oxidation state of rich Li ⁺ toward highly sensitive detection of nitric oxide. <i>Electrochimica Acta</i> , 2021 , 365, 137347	6.7	5

28	Molecularly assembled graphdiyne with atomic sites for ultrafast and real-time detection of nitric oxide in cell assays. <i>Biosensors and Bioelectronics</i> , 2022 , 195, 113630	11.8	5
27	Portable Flow Injection Amperometric Sensor Consisting of Pd Nanochains, Graphene Nanoflakes, and WS ₂ Nanosheets for Formaldehyde Detection. <i>ACS Applied Nano Materials</i> , 2021 , 4, 12429-12441	5.6	4
26	Sandwiching Phosphorene with Iron Porphyrin Monolayer for High Stability and Its Biomimetic Sensor to Sensitively Detect Living Cell Released NO ₂ . <i>Advanced Science</i> , 2022 , e2104066	13.6	4
25	Highly wrinkled palladium nanosheets as advanced electrocatalysts for the oxygen reduction reaction in acidic medium. <i>Chemical Engineering Journal</i> , 2021 , 431, 133237	14.7	4
24	Tungsten-induced synthesis of defective palladium-copper-tungsten trimetallic nanochains to highly enhance activity for formic acid electrooxidation. <i>Materials Today Energy</i> , 2020 , 18, 100558	7	4
23	Oxidase Mimic Graphdiyne for Efficient Superoxide Generation in Wide pH Ranges. <i>Advanced Functional Materials</i> , 2021 , 31, 2110192	15.6	3
22	Sensitive glucometer-based microfluidic immune-sensing platform via DNA signal amplification coupled with enzymatic reaction. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129055	8.5	3
21	Selective electroreduction of nitrate to ammonia with high Faradaic efficiency on nanocrystalline silver. <i>Electrochemistry Communications</i> , 2021 , 131, 107121	5.1	3
20	Fast-response Electrochemical Detection of Trinitrotoluene at Sub-ppb Levels on Nitrogenized Porous Carbon Spheres. <i>Electroanalysis</i> , 2019 , 31, 1291-1295	3	2
19	Hydrothermally Treating High-Ti Cinder for a Near Full-Sunlight-Driven Photocatalyst toward Highly Efficient H ₂ Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5076-5084	8.3	2
18	Photoelectrochemical quantification of hydrogen peroxide with g-C ₃ N ₄ /BiFeO ₃ . <i>Sensors and Actuators Reports</i> , 2022 , 4, 100079	4.7	2
17	Active sites-rich layered double hydroxide for nitrate-to-ammonia production with high selectivity and stability. <i>Chemical Engineering Journal</i> , 2022 , 434, 134641	14.7	2
16	Tuning electrospinning hierarchically porous nanowires anode for enhanced bioelectrocatalysis in microbial fuel cells. <i>Nano Research</i> , 2021 , 14, 100079	10	2
15	Black Phosphorus Quantum Dot-Engineered Tin Oxide Electron Transport Layer for Highly Stable Perovskite Solar Cells with Negligible Hysteresis.. <i>ACS Applied Materials & Interfaces</i> , 2022 , 14, 100079	9.5	2
14	Construction of BiVO ₄ /NiCoO nanosheet Z-scheme heterojunction for highly boost solar water oxidation.. <i>Journal of Colloid and Interface Science</i> , 2022 , 613, 265-275	9.3	1
13	Observation of 4-order water oxidation kinetics by time-resolved photovoltage spectroscopy.. <i>Science</i> , 2021 , 24, 103500	6.1	1
12	Surface and interface engineering of hollow carbon sphere-based electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 25706-25730	13	1
11	Engineering transition metal-based nanomaterials for high-performance electrocatalysis. <i>Materials Reports Energy</i> , 2021 , 1, 100006		1

10	Interface engineering cerium-doped copper nanocrystal for efficient electrochemical nitrate-to-ammonia production. <i>Electrochimica Acta</i> , 2022 , 411, 140095	6.7	1
9	Directionally In Situ Self-Assembled, High-Density, Macropore-Oriented, CoP-Impregnated, 3D Hierarchical Porous Carbon Sheet Nanostructure for Superior Electrocatalysis in the Hydrogen Evolution Reaction. <i>Small</i> , 2021 , e2103866	11	1
8	Living cell-based ultrahigh-supercapacitive behaviours. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1241-1247	12.47	0
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