

Shuyan Gao

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139
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8,141
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52
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147
ext. papers

10,640
ext. citations

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L-index

#	Paper	IF	Citations
139	One-Pot Synthesis of Ag/ZnO Self-Assembled 3D Hollow Microspheres with Enhanced Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16792-16800	3.8	306
138	A versatile biomass derived carbon material for oxygen reduction reaction, supercapacitors and oil/water separation. <i>Nano Energy</i> , 2017 , 33, 334-342	17.1	288
137	Transforming organic-rich amaranthus waste into nitrogen-doped carbon with superior performance of the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2015 , 8, 221-229	35.4	266
136	Ambient N ₂ fixation to NH ₃ at ambient conditions: Using Nb ₂ O ₅ nanofiber as a high-performance electrocatalyst. <i>Nano Energy</i> , 2018 , 52, 264-270	17.1	256
135	Interfacing Manganese Oxide and Cobalt in Porous Graphitic Carbon Polyhedrons Boosts Oxygen Electrocatalysis for Zn-Air Batteries. <i>Advanced Materials</i> , 2019 , 31, e1902339	24	219
134	A general dual-templating approach to biomass-derived hierarchically porous heteroatom-doped carbon materials for enhanced electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2019 , 12, 648-655	35.4	212
133	Nickel-Iron Layered Double Hydroxide Hollow Polyhedrons as a Superior Sulfur Host for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10944-10948	16.4	205
132	Functional Groups and Pore Size Distribution Do Matter to Hierarchically Porous Carbons as High-Rate-Performance Supercapacitors. <i>Chemistry of Materials</i> , 2016 , 28, 445-458	9.6	189
131	Large scale production of biomass-derived N-doped porous carbon spheres for oxygen reduction and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3317	13	179
130	Green Fabrication of Hierarchical CuO Hollow Micro/Nanostructures and Enhanced Performance as Electrode Materials for Lithium-ion Batteries. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19324-19328	3.8	173
129	Identifying the Origin of Ti Activity toward Enhanced Electrocatalytic N Reduction over TiO Nanoparticles Modulated by Mixed-Valent Copper. <i>Advanced Materials</i> , 2020 , 32, e2000299	24	171
128	Designed Formation of Double-Shelled Ni-Fe Layered-Double-Hydroxide Nanocages for Efficient Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e1906432	24	167
127	Iron-based phosphides as electrocatalysts for the hydrogen evolution reaction: recent advances and future prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19729-19745	13	166
126	N-doped-carbon-coated Fe ₃ O ₄ from metal-organic framework as efficient electrocatalyst for ORR. <i>Nano Energy</i> , 2017 , 40, 462-470	17.1	158
125	Aqueous electrocatalytic N ₂ reduction for ambient NH ₃ synthesis: recent advances in catalyst development and performance improvement. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1545-1556	13	158
124	Tyrosine-assisted preparation of Ag/ZnO nanocomposites with enhanced photocatalytic performance and synergistic antibacterial activities. <i>Nanotechnology</i> , 2008 , 19, 445711	3.4	157
123	Honeysuckles-derived porous nitrogen, sulfur, dual-doped carbon as high-performance metal-free oxygen electroreduction catalyst. <i>Nano Energy</i> , 2015 , 12, 785-793	17.1	144

122	Self-assembly-template engineering nitrogen-doped carbon aerogels for high-rate supercapacitors. <i>Nano Energy</i> , 2016 , 28, 206-215	17.1	136
121	ZnO-based hollow microspheres: biopolymer-assisted assemblies from ZnO nanorods. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15847-52	3.4	134
120	Rationally Designed Three-Layered Cu S@Carbon@MoS Hierarchical Nanoboxes for Efficient Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7178-7183	16.4	127
119	Nitrogen-doped carbon shell structure derived from natural leaves as a potential catalyst for oxygen reduction reaction. <i>Nano Energy</i> , 2015 , 13, 518-526	17.1	118
118	A green one-arrow-two-hawks strategy for nitrogen-doped carbon dots as fluorescent ink and oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6320	13	118
117	Synthesis of Cobalt Sulfide Multi-shelled Nanoboxes with Precisely Controlled Two to Five Shells for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2675-2679	16.4	117
116	Ordered Co ₃ O ₄ hierarchical nanorod arrays: tunable superhydrophilicity without UV irradiation and transition to superhydrophobicity. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8366		116
115	Recycling the biowaste to produce nitrogen and sulfur self-doped porous carbon as an efficient catalyst for oxygen reduction reaction. <i>Nano Energy</i> , 2015 , 16, 408-418	17.1	105
114	Biomass-derived interconnected carbon nanoring electrochemical capacitors with high performance in both strongly acidic and alkaline electrolytes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 181-188	13	105
113	Engineering white light-emitting Eu-doped ZnO urchins by biopolymer-assisted hydrothermal method. <i>Applied Physics Letters</i> , 2006 , 89, 123125	3.4	105
112	Nitrogen-Doped Cobalt Pyrite Yolk-Shell Hollow Spheres for Long-Life Rechargeable Zn-Air Batteries. <i>Advanced Science</i> , 2020 , 7, 2001178	13.6	103
111	Synthesis of Copper-Substituted CoS @Cu S Double-Shelled Nanoboxes by Sequential Ion Exchange for Efficient Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2644-2648	16.4	96
110	A cobalt phosphorus nanoparticle decorated N-doped carbon nanosheet array for efficient and durable hydrogen evolution at alkaline pH. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3884-3887	5.8	94
109	Self-power electroreduction of N ₂ into NH ₃ by 3D printed triboelectric nanogenerators. <i>Materials Today</i> , 2019 , 28, 17-24	21.8	91
108	Hierarchically porous carbon materials with controllable proportion of micropore area by dual-activator synthesis for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15340-15347	13	87
107	Hierarchical Ag/ZnO micro/nanostructure: Green synthesis and enhanced photocatalytic performance. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 764-769	3.3	87
106	An ultrasmall Ru ₂ P nanoparticles-reduced graphene oxide hybrid: an efficient electrocatalyst for NH ₃ synthesis under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 77-81	13	87
105	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. <i>Small Structures</i> , 2021 , 2, 2000048	8.7	86

104	Ambient electrohydrogenation of N ₂ for NH ₃ synthesis on non-metal boron phosphide nanoparticles: the critical role of P in boosting the catalytic activity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16117-16121	13	84
103	Recent advances in electrospun nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16747-16789	13	79
102	Why and how to tailor the vertical coordinate of pore size distribution to construct ORR-active carbon materials?. <i>Nano Energy</i> , 2019 , 58, 384-391	17.1	69
101	Recent advances in electrospun one-dimensional carbon nanofiber structures/heterostructures as anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11493-11510	13	69
100	Triboelectric Nanogenerator Powered Electrochemical Degradation of Organic Pollutant Using Pt-Free Carbon Materials. <i>ACS Nano</i> , 2017 , 11, 3965-3972	16.7	67
99	PdP ₂ nanoparticles/reduced graphene oxide for electrocatalytic N ₂ conversion to NH ₃ under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24760-24764	13	67
98	CoS ₂ /graphene composite as efficient catalytic counter electrode for dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2013 , 114, 173-179	6.7	65
97	High-performance non-enzymatic glucose detection: using a conductive Ni-MOF as an electrocatalyst. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 5411-5415	7.3	63
96	An advanced electro-Fenton degradation system with triboelectric nanogenerator as electric supply and biomass-derived carbon materials as cathode catalyst. <i>Nano Energy</i> , 2018 , 45, 21-27	17.1	63
95	Nitrogen-enriched carbon from bamboo fungus with superior oxygen reduction reaction activity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18263-18270	13	63
94	Highly Stable Au Nanoparticles with Tunable Spacing and Their Potential Application in Surface Plasmon Resonance Biosensors. <i>Advanced Functional Materials</i> , 2010 , 20, 78-86	15.6	63
93	A universal strategy for carbon-based ORR-active electrocatalyst: One porogen, two pore-forming mechanisms, three pore types. <i>Nano Energy</i> , 2019 , 62, 628-637	17.1	62
92	Greatly Enhanced Electrocatalytic N ₂ Reduction over V ₂ O ₃ /C by P Doping. <i>ChemNanoMat</i> , 2020 , 6, 1315-1319	13.1	62
91	Rational design of carbon materials as anodes for potassium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 34, 483-507	19.4	59
90	Nitrogen-Doped Porous Carbon Derived from Malachium Aquaticum Biomass as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2016 , 220, 427-435	6.7	57
89	Metal-based electrocatalytic conversion of CO ₂ to formic acid/formate. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21947-21960	13	54
88	An innovative electro-fenton degradation system self-powered by triboelectric nanogenerator using biomass-derived carbon materials as cathode catalyst. <i>Nano Energy</i> , 2017 , 42, 314-321	17.1	53
87	Peanut-Shell-like Porous Carbon from Nitrogen-Containing Poly-N-phenylethanolamine for High-Performance Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22238-45	9.5	52

86	Application of hierarchical TiO ₂ spheres as scattering layer for enhanced photovoltaic performance in dye sensitized solar cell. <i>CrystEngComm</i> , 2013 , 15, 3351	3.3	52
85	Hierarchically micro/nanostructured porous metallic copper: Convenient growth and superhydrophilic and catalytic performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21733		48
84	A-site perovskite oxides: an emerging functional material for electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6650-6670	13	48
83	One stone, two birds: Gastrodia elata-derived heteroatom-doped carbon materials for efficient oxygen reduction electrocatalyst and as fluorescent decorative materials. <i>Nano Energy</i> , 2013 , 2, 1261-1270 ^{17.1}		47
82	Phosphorized CoNi S Yolk-Shell Spheres for Highly Efficient Hydrogen Production via Water and Urea Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22885-22891	16.4	47
81	Marriage of an Ether-Based Electrolyte with Hard Carbon Anodes Creates Superior Sodium-Ion Batteries with High Mass Loading. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41380-41388	9.5	44
80	Sn dendrites for electrocatalytic N ₂ reduction to NH ₃ under ambient conditions. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4469-4472	5.8	43
79	High-Performance Electrochemical NO Reduction into NH by MoS Nanosheet. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25263-25268	16.4	42
78	Self-Powered Electrochemical Oxidation of 4-Aminoazobenzene Driven by a Triboelectric Nanogenerator. <i>ACS Nano</i> , 2017 , 11, 770-778	16.7	40
77	Recent Progress in Electrocatalytic Methanation of CO ₂ at Ambient Conditions. <i>Advanced Functional Materials</i> , 2021 , 31, 2009449	15.6	40
76	Rational Design and Engineering of One-Dimensional Hollow Nanostructures for Efficient Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20102-20118	16.4	38
75	Chemical crosslinking engineered nitrogen-doped carbon aerogels from polyaniline-boric acid-polyvinyl alcohol gels for high-performance electrochemical capacitors. <i>Carbon</i> , 2017 , 123, 471-480 ^{10.4}		37
74	Biomolecule-assisted in situ route toward 3D superhydrophilic Ag/CuO micro/nanostructures with excellent artificial sunlight self-cleaning performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7281		36
73	Enabling electrochemical conversion of N ₂ to NH ₃ under ambient conditions by a CoP ₃ nanoneedle array. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17956-17959	13	35
72	Sustainable self-powered electro-Fenton degradation of organic pollutants in wastewater using carbon catalyst with controllable pore activated by EDTA-2Na. <i>Nano Energy</i> , 2019 , 59, 346-353	17.1	34
71	Anatase TiO ₂ nanocrystals enclosed by well-defined crystal facets and their application in dye-sensitized solar cell. <i>CrystEngComm</i> , 2013 , 15, 516-523	3.3	34
70	Electrocatalytic N ₂ reduction to NH ₃ with high Faradaic efficiency enabled by vanadium phosphide nanoparticle on V foil. <i>Nano Research</i> , 2020 , 13, 2967-2972	10	32
69	TiO Nanoparticles with Ti Sites toward Efficient NH ₃ Electrosynthesis under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41715-41722	9.5	32

68	Pyrrolic-nitrogen-rich biomass-derived catalyst for sustainable degradation of organic pollutant via a self-powered electro-Fenton process. <i>Nano Energy</i> , 2019 , 64, 103940	17.1	31
67	FeOOH quantum dots decorated graphene sheet: An efficient electrocatalyst for ambient N ₂ reduction. <i>Nano Research</i> , 2020 , 13, 209-214	10	31
66	Oxidation of diclofenac by potassium ferrate (VI): reaction kinetics and toxicity evaluation. <i>Science of the Total Environment</i> , 2015 , 506-507, 252-8	10.2	29
65	Engineering flexible 3D printed triboelectric nanogenerator to self-power electro-Fenton degradation of pollutants. <i>Nano Energy</i> , 2020 , 74, 104908	17.1	29
64	Self-assembly of cuprous oxide nanoparticles supported on reduced graphene oxide and their enhanced performance for catalytic reduction of nitrophenols. <i>RSC Advances</i> , 2015 , 5, 71259-71267	3.7	28
63	Hierarchical plasmonic-metal/semiconductor micro/nanostructures: green synthesis and application in catalytic reduction of p-nitrophenol. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	28
62	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo O Nanowire Array.. <i>Small</i> , 2022 , e2106961	11	27
61	Synthesis of Cobalt Sulfide Multi-shelled Nanoboxes with Precisely Controlled Two to Five Shells for Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 2701-2705	3.6	27
60	Old tree with new shoots: silver nanoparticles for label-free and colorimetric mercury ions detection. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	26
59	Electrochemical oxidation degradation of azobenzene dye self-powered by multilayer-linkage triboelectric nanogenerator. <i>Nano Energy</i> , 2016 , 30, 52-58	17.1	25
58	Unique gold sponges: biopolymer-assisted hydrothermal synthesis and potential application as surface-enhanced Raman scattering substrates. <i>Nanotechnology</i> , 2005 , 16, 2530-2535	3.4	25
57	Platelet-like CuS impregnated with twin crystal structures for high performance sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8049-8057	13	24
56	Nitrogen-Doped Carbon with Mesopore Confinement Efficiently Enhances the Tolerance, Sensitivity, and Stability of a Pt Catalyst for the Oxygen Reduction Reaction. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 864-872	3.1	24
55	Cauliflower-like CuI nanostructures: Green synthesis and applications as catalyst and adsorbent. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1021-1027 ^{3,1}		24
54	CoFe-LDH nanowire arrays on graphite felt: A high-performance oxygen evolution electrocatalyst in alkaline media. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	24
53	Synthesis of Copper-Substituted CoS ₂ @Cu _x S Double-Shelled Nanoboxes by Sequential Ion Exchange for Efficient Sodium Storage. <i>Angewandte Chemie</i> , 2020 , 132, 2666-2670	3.6	24
52	Self-Powered Electrochemistry for the Oxidation of Organic Molecules by a Cross-Linked Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2016 , 28, 5188-94	24	24
51	Nickel/Iron Layered Double Hydroxide Hollow Polyhedrons as a Superior Sulfur Host for Lithium/Sulfur Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 11110-11114	3.6	23

50	Bioinspired synthesis of well faceted CuI nanostructures and evaluation of their catalytic performance for coupling reactions. <i>Green Chemistry</i> , 2010 , 12, 1442	10	22
49	Preparation of porous carbon electrodes from semen cassiae for high-performance electric double-layer capacitors. <i>New Journal of Chemistry</i> , 2018 , 42, 6763-6769	3.6	21
48	Rationally Designed Three-Layered Cu ₂ S@Carbon@MoS ₂ Hierarchical Nanoboxes for Efficient Sodium Storage. <i>Angewandte Chemie</i> , 2020 , 132, 7245-7250	3.6	20
47	Innovative platform for transmission localized surface plasmon transducers and its application in detecting heavy metal Pd(II). <i>Analytical Chemistry</i> , 2009 , 81, 7703-12	7.8	20
46	Surface chemistry of gold nanoparticles determines interactions with bovine serum albumin. <i>Materials Science and Engineering C</i> , 2019 , 103, 109856	8.3	19
45	High-efficiency electrohydrogenation of nitric oxide to ammonia on a Ni ₂ P nanoarray under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 24268-24275	13	19
44	Effects of precursor treatment on the structure and electrochemical properties of spinel LiMn ₂ O ₄ cathode. <i>Journal of Alloys and Compounds</i> , 2013 , 566, 16-21	5.7	18
43	MnO ₂ nanoarray with oxygen vacancies: An efficient catalyst for NO electroreduction to NH ₃ at ambient conditions. <i>Materials Today Physics</i> , 2021 , 22, 100586	8	18
42	Sustainable self-powered electro-Fenton degradation using N, S co-doped porous carbon catalyst fabricated with adsorption-pyrolysis-doping strategy. <i>Nano Energy</i> , 2021 , 81, 105623	17.1	18
41	In situ grown Fe ₃ O ₄ particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. <i>Nano Research</i> , 1	10	17
40	NiP nanosheet array for high-efficiency electrohydrogenation of nitrite to ammonia at ambient conditions. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1055-1063	9.3	17
39	Transferrable superhydrophobic surface constructed by a hexagonal CuI powder without modification by low-free-energy materials. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2080-5	9.5	16
38	Effects of gold nanoparticle morphologies on interactions with proteins. <i>Materials Science and Engineering C</i> , 2020 , 111, 110830	8.3	14
37	Greatly Facilitated Two-Electron Electroreduction of Oxygen into Hydrogen Peroxide over TiO by Mn Doping. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46659-46664	9.5	14
36	Bioinspired synthesis of hierarchically micro/nano-structured CuI tetrahedron and its potential application as adsorbent for Cd(II) with high removal capacity. <i>Journal of Hazardous Materials</i> , 2012 , 211-212, 55-61	12.8	13
35	Recent developments and applications of hybrid surface plasmon resonance interfaces in optical sensing. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 91-101	4.4	12
34	A MnS/FeS ₂ heterostructure with a high degree of lattice matching anchored into carbon skeleton for ultra-stable sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 24024-24035	13	12
33	Loading Single-Ni Atoms on Assembled Hollow N-Rich Carbon Plates for Efficient CO Electroreduction. <i>Advanced Materials</i> , 2021 , e2105204	24	12

32	Room-temperature strategy for networked nonspherical gold nanostructures from Au(III)[G-2]CO ₂ H dendrimer complex. <i>Journal of Colloid and Interface Science</i> , 2006 , 293, 409-13	9.3	10
31	Bioinspired Green Synthesis of Nanomaterials and their Applications. <i>Current Nanoscience</i> , 2010 , 6, 452-468		9
30	Functional integration of hierarchical core-shell architectures via vertically arrayed ultrathin CuSe nanosheets decorated on hollow CuS microcages targeting highly effective sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27615-27628	13	9
29	Self-powered electro-Fenton degradation system using oxygen-containing functional groups-rich biomass-derived carbon catalyst driven by 3D printed flexible triboelectric nanogenerator. <i>Nano Energy</i> , 2021 , 83, 105720	17.1	9
28	CoTe nanoparticle-embedded N-doped hollow carbon polyhedron: an efficient catalyst for H ₂ O ₂ electrosynthesis in acidic media. <i>Journal of Materials Chemistry A</i> ,	13	9
27	Pore-structure regulation of biomass-derived carbon materials for an enhanced supercapacitor performance. <i>Nanoscale</i> , 2021 , 13, 10051-10060	7.7	8
26	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie</i> ,	3.6	8
25	Oxidation-etching induced morphology regulation of Cu catalysts for high-performance electrochemical N ₂ reduction. <i>EcoMat</i> , 2020 , 2, e12026	9.4	7
24	Biopolymer-Assisted Synthesis of Single Crystalline Gold Disks by a Hydrothermal Route. <i>Current Nanoscience</i> , 2008 , 4, 145-150	1.4	7
23	Electrochemical two-electron O ₂ reduction reaction toward H ₂ O ₂ production: using cobalt porphyrin decorated carbon nanotubes as a nano hybrid catalyst. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26019-26027	13	7
22	Biomass Juncus derived carbon decorated with cobalt nanoparticles enables high-efficiency ammonia electrosynthesis by nitrite reduction. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2842-2848	13	6
21	Template-assisted self-activation of mesoporous carbon with active nitrogen/oxygen configurations for sustainable triboelectric nanogenerator powered electro-Fenton degradation. <i>Nano Energy</i> , 2021 , 83, 105825	17.1	6
20	Rational Design and Engineering of One-Dimensional Hollow Nanostructures for Efficient Electrochemical Energy Storage. <i>Angewandte Chemie</i> , 2021 , 133, 20262-20278	3.6	6
19	3D printed triboelectric nanogenerator self-powered electro-Fenton degradation of orange IV and crystal violet system using N-doped biomass carbon catalyst with tunable catalytic activity. <i>Nano Energy</i> , 2021 , 83, 105824	17.1	6
18	Flower-like open-structured polycrystalline copper with synergistic multi-crystal plane for efficient electrocatalytic reduction of nitrate to ammonia. <i>Nano Energy</i> , 2022 , 97, 107124	17.1	6
17	Hierarchical porous biomass-derived carbon framework with ultrahigh surface area for outstanding capacitance supercapacitor. <i>Renewable Energy</i> , 2021 , 179, 1826-1835	8.1	5
16	Carboxyl-cored dendrimer and toluene-assisted fabrication of uniform platinum nanodendrites at a water/oil interface and their potential application as a catalyst. <i>Nanotechnology</i> , 2006 , 17, 1599-606	3.4	4
15	Nitrogen, phosphorus, sulfur tri-doped porous carbon derived from covalent polymer with versatile performances in supercapacitor, oxygen reduction reaction and electro-fenton degradation. <i>Microporous and Mesoporous Materials</i> , 2021 , 325, 111335	5.3	4

14	Antibiotic-inspired zinc oxide with morphology-dependent photocatalytic activity. <i>Canadian Journal of Chemistry</i> , 2011 , 89, 590-597	0.9	3
13	Highly efficient two-electron electroreduction of oxygen into hydrogen peroxide over Cu-doped TiO ₂ . <i>Nano Research</i> , 1	10	3
12	Three-Dimensional SnS ₂ Nanoarrays with Enhanced Lithium-Ion Storage Properties. <i>ChemElectroChem</i> , 2020 , 7, 4484-4491	4.3	3
11	Preparation and characterization of PS/pAPBA core-shell microspheres. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2009 , 4, 168-172		2
10	Studies on the second virial coefficient of sodium alginate solution. <i>Polymers for Advanced Technologies</i> , 1997 , 8, 722-726	3.2	2
9	A treasure map for nonmetallic catalysts: optimal nitrogen and fluorine distribution of biomass-derived carbon materials for high-performance oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18251-18259	13	2
8	Fe ₃ S ₄ @reduced graphene oxide composites as novel anode materials for high performance alkaline secondary batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 895, 162593	5.7	1
7	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. <i>Materials Advances</i> ,	3.3	1
6	Electrocatalytic H ₂ O ₂ production via two-electron O ₂ reduction by Mo-doped TiO ₂ nanocrystallines. <i>Catalysis Science and Technology</i> , 2021 , 11, 6970-6974	5.5	1
5	Self-catalyzed growth of Zn/Co-N-C carbon nanotubes derived from metal-organic frameworks as efficient oxygen reduction catalysts for Zn-air battery. <i>Science China Materials</i> , 1	7.1	1
4	Template-assisted polymerization-pyrolysis derived mesoporous carbon anchored with Fe/Fe ₃ C and Fe _N X species as efficient oxygen reduction catalysts for Zn-air battery. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 37895-37895	6.7	1
3	N, P-dual doped carbonaceous catalysts derived from bifunctional-salt activation for effective electro-Fenton degradation on waterborne organic pollutions. <i>Electrochimica Acta</i> , 2021 , 389, 138732	6.7	1
2	Favorable pore size distribution of biomass-derived N, S dual-doped carbon materials for advanced oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 12964-12974	6.7	1
1	Phosphorized CoNi ₂ S ₄ Yolk-Shell Spheres for Highly Efficient Hydrogen Production via Water and Urea Electrolysis. <i>Angewandte Chemie</i> , 2021 , 133, 23067	3.6	0