

Shuyan Gao

List of Publications by Year in descending order

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145
papers

12,959
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15495

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147
docs citations

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times ranked

12236
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacing Manganese Oxide and Cobalt in Porous Graphitic Carbon Polyhedrons Boosts Oxygen Electrocatalysis for Zn–Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1902339.	11.1	363
2	A versatile biomass derived carbon material for oxygen reduction reaction, supercapacitors and oil/water separation. <i>Nano Energy</i> , 2017, 33, 334-342.	8.2	352
3	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.	1.5	331
4	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.	8.2	331
5	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.	15.6	318
6	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.	15.6	307
7	Designed Formation of Double-Shelled Ni–Fe Layered-Hydroxide Nanocages for Efficient Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e1906432.	11.1	305
8	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.	5.2	295
9	Identifying the Origin of Ti ³⁺ Activity toward Enhanced Electrocatalytic N ₂ Reduction over TiO ₂ Nanoparticles Modulated by Mixed-Valent Copper. <i>Advanced Materials</i> , 2020, 32, e2000299.	11.1	278
10	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.	7.2	269
11	Rationally Designed Three-Layered Cu ₂ S@Carbon@MoS ₂ Hierarchical Nanoboxes for Efficient Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7178-7183.	7.2	232
12	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.	5.2	226
13	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.	3.2	221
14	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.	5.2	208
15	Nitrogen-Doped Cobalt Pyrite Yolk–Shell Hollow Spheres for Long-Life Rechargeable Zn–Air Batteries. <i>Advanced Science</i> , 2020, 7, 2001178.	5.6	206
16	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.	8.2	198
17	Phosphorized CoNi ₂ S ₄ Yolk–Shell Spheres for Highly Efficient Hydrogen Production via Water and Urea Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22885-22891.	7.2	191
18	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.	7.2	182

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19	Synthesis of Copper-Substituted CoS ₂ @Cu _x S Double-Shelled Nanoboxes by Sequential Ion Exchange for Efficient Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2644-2648.	7.2	182
20	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.	1.5	181
21	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25263-25268.	7.2	180
22	Self-assembly-template engineering nitrogen-doped carbon aerogels for high-rate supercapacitors. <i>Nano Energy</i> , 2016, 28, 206-215.	8.2	174
23	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo ₂ O ₄ Nanowire Array. <i>Small</i> , 2022, 18, e2106961.	5.2	171
24	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.	2.9	170
25	Tyrosine-assisted preparation of Ag/ZnO nanocomposites with enhanced photocatalytic performance and synergistic antibacterial activities. <i>Nanotechnology</i> , 2008, 19, 445711.	1.3	168
26	Honeysuckles-derived porous nitrogen, sulfur, dual-doped carbon as high-performance metal-free oxygen electroreduction catalyst. <i>Nano Energy</i> , 2015, 12, 785-793.	8.2	167
27	Recent advances in electrospun nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16747-16789.	5.2	166
28	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. <i>Small Structures</i> , 2021, 2, 2000048.	6.9	157
29	A-site perovskite oxides: an emerging functional material for electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6650-6670.	5.2	146
30	ZnO-Based Hollow Microspheres: Biopolymer-Assisted Assemblies from ZnO Nanorods. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15847-15852.	1.2	137
31	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.	5.2	136
32	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.	8.2	132
33	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.	5.2	130
34	Rational design of carbon materials as anodes for potassium-ion batteries. <i>Energy Storage Materials</i> , 2021, 34, 483-507.	9.5	130
35	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.	6.7	129
36	Self-power electroreduction of N ₂ into NH ₃ by 3D printed triboelectric nanogenerators. <i>Materials Today</i> , 2019, 28, 17-24.	8.3	127

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37	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.	2.5	127
38	Metal-based electrocatalytic conversion of CO ₂ to formic acid/formate. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21947-21960.	5.2	125
39	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.	8.2	125
40	Rational Design and Engineering of One-Dimensional Hollow Nanostructures for Efficient Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20102-20118.	7.2	123
41	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.	8.2	119
42	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.	5.2	116
43	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.	5.2	115
44	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.	5.2	113
45	CoFe-LDH nanowire arrays on graphite felt: A high-performance oxygen evolution electrocatalyst in alkaline media. <i>Chinese Chemical Letters</i> , 2022, 33, 890-892.	4.8	110
46	Engineering white light-emitting Eu-doped ZnO urchins by biopolymer-assisted hydrothermal method. <i>Applied Physics Letters</i> , 2006, 89, 123125.	1.5	108
47	In situ grown Fe ₃ O ₄ particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. <i>Nano Research</i> , 2022, 15, 3050-3055.	5.8	108
48	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.	5.2	105
49	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie</i> , 2021, 133, 25467-25472.	1.6	102
50	Loading Single Ni Atoms on Assembled Hollow N-Rich Carbon Plates for Efficient CO ₂ Electroreduction. <i>Advanced Materials</i> , 2022, 34, e2105204.	11.1	100
51	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.	8.2	97
52	Hierarchical Ag/ZnO micro/nanostructure: Green synthesis and enhanced photocatalytic performance. <i>Journal of Solid State Chemistry</i> , 2011, 184, 764-769.	1.4	94
53	Recent Progress in Electrocatalytic Methanation of CO ₂ at Ambient Conditions. <i>Advanced Functional Materials</i> , 2021, 31, 2009449.	7.8	92
54	Triboelectric Nanogenerator Powered Electrochemical Degradation of Organic Pollutant Using Pt-Free Carbon Materials. <i>ACS Nano</i> , 2017, 11, 3965-3972.	7.3	91

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55	A universal strategy for carbon-based ORR active electrocatalyst: One porogen, two pore creating mechanisms, three pore types. <i>Nano Energy</i> , 2019, 62, 628-637.	8.2	91
56	Ti ₂ O ₃ Nanoparticles with Ti ³⁺ Sites toward Efficient NH ₃ Electrosynthesis under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41715-41722.	4.0	89
57	Pd 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.	5.2	81
58	Nitrogen-enriched carbon from bamboo fungus with superior oxygen reduction reaction activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18263-18270.	5.2	78
59	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.	8.2	77
60	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.	4.0	76
61	Nitrogen-Doped Porous Carbon Derived from <i>Malachium Aquaticum</i> Biomass as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2016, 220, 427-435.	2.6	73
62	CoS ₂ graphene composite as efficient catalytic counter electrode for dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2013, 114, 173-179.	2.6	71
63	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.	8.2	71
64	Greatly Enhanced Electrocatalytic N ₂ Reduction over V ₂ O ₃ /C by P Doping. <i>ChemNanoMat</i> , 2020, 6, 1315-1319.	1.5	71
65	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.	5.2	68
66	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.	7.8	67
67	Hierarchically micro/nanostructured porous metallic copper: Convenient growth and superhydrophilic and catalytic performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 21733.	6.7	64
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.	8.2	62
69	Ni ₂ P 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.	5.0	62
70	Peanut-Shell-like Porous Carbon from Nitrogen-Containing Poly- <i>N</i> -phenylethanolamine for High-Performance Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22238-22245.	4.0	61
71	High-Performance Electrochemical Nitrate Reduction to Ammonia under Ambient Conditions Using a FeOOH Nanorod Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17312-17318.	4.0	58
72	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.	5.2	56

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73	Electrochemical two-electron O_2 reduction reaction toward H_2O_2 production: using cobalt porphyrin decorated carbon nanotubes as a nanohybrid catalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26019-26027.	5.2	55
74	One stone, two birds: <i>Gastrodia elata</i> -derived heteroatom-doped carbon materials for efficient oxygen reduction electrocatalyst and as fluorescent decorative materials. <i>Nano Energy</i> , 2013, 2, 1261-1270.	8.2	54
75	Engineering flexible 3D printed triboelectric nanogenerator to self-power electro-Fenton degradation of pollutants. <i>Nano Energy</i> , 2020, 74, 104908.	8.2	54
76	Sn dendrites for electrocatalytic N_2 reduction to NH_3 under ambient conditions. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4469-4472.	2.5	54
77	MnO_2 nanoarray with oxygen vacancies: An efficient catalyst for NO electroreduction to NH_3 at ambient conditions. <i>Materials Today Physics</i> , 2022, 22, 100586.	2.9	54
78	Self-Powered Electrochemical Oxidation of 4-Aminoazobenzene Driven by a Triboelectric Nanogenerator. <i>ACS Nano</i> , 2017, 11, 770-778.	7.3	53
79	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.	5.2	53
80	Application of hierarchical TiO_2 spheres as scattering layer for enhanced photovoltaic performance in dye sensitized solar cell. <i>CrystEngComm</i> , 2013, 15, 3351.	1.3	52
81	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.	8.2	51
82	$FeOOH$ quantum dots decorated graphene sheet: An efficient electrocatalyst for ambient N_2 reduction. <i>Nano Research</i> , 2020, 13, 209-214.	5.8	48
83	Hierarchical porous biomass-derived carbon framework with ultrahigh surface area for outstanding capacitance supercapacitor. <i>Renewable Energy</i> , 2021, 179, 1826-1835.	4.3	48
84	Pore-structure regulation of biomass-derived carbon materials for an enhanced supercapacitor performance. <i>Nanoscale</i> , 2021, 13, 10051-10060.	2.8	47
85	Biomass <i>Juncus</i> 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.	5.2	47
86	Greatly Facilitated Two-Electron Electroreduction of Oxygen into Hydrogen Peroxide over TiO_2 by Mn Doping. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46659-46664.	4.0	46
87	A gradient hexagonal-prism $Fe_3Se_4@SiO_2@C$ configuration as a highly reversible sodium conversion anode. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4087-4099.	5.2	46
88	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.	5.8	45
89	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.	5.4	43
90	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.	8.2	43

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91	Rationally Designed Three-Layered Cu ₂ S@Carbon@MoS ₂ Hierarchical Nanoboxes for Efficient Sodium Storage. <i>Angewandte Chemie</i> , 2020, 132, 7245-7250.	1.6	42
92	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> , 2022, 65, 653-662.	3.5	42
93	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.	6.7	39
94	Surface chemistry of gold nanoparticles determines interactions with bovine serum albumin. <i>Materials Science and Engineering C</i> , 2019, 103, 109856.	3.8	39
95	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.	5.2	38
96	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.	5.2	38
97	Highly efficient two-electron electroreduction of oxygen into hydrogen peroxide over Cu-doped TiO ₂ . <i>Nano Research</i> , 2022, 15, 3880-3885.	5.8	38
98	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.	1.7	36
99	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.	1.3	35
100	Oxidation of diclofenac by potassium ferrate (VI): Reaction kinetics and toxicity evaluation. <i>Science of the Total Environment</i> , 2015, 506-507, 252-258.	3.9	35
101	Nickel-Iron Layered Double Hydroxide Hollow Polyhedrons as a Superior Sulfur Host for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2018, 130, 11110-11114.	1.6	35
102	Effects of gold nanoparticle morphologies on interactions with proteins. <i>Materials Science and Engineering C</i> , 2020, 111, 110830.	3.8	35
103	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.	0.8	31
104	Self-Powered Electrochemistry for the Oxidation of Organic Molecules by a Cross-Linked Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2016, 28, 5188-5194.	11.1	31
105	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.	5.2	31
106	Unique gold sponges: biopolymer-assisted hydrothermal synthesis and potential application as surface-enhanced Raman scattering substrates. <i>Nanotechnology</i> , 2005, 16, 2530-2535.	1.3	29
107	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.	1.4	29
108	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.	1.6	29

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109	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.	1.6	29
110	CoTe nanoparticle-embedded N-doped hollow carbon polyhedron: an efficient catalyst for H ₂ O ₂ electro-synthesis in acidic media. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21703-21707.	5.2	29
111	Old tree with new shoots: silver nanoparticles for label-free and colorimetric mercury ions detection. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	28
112	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.	1.2	27
113	Electrochemical oxidation degradation of azobenzene dye self-powered by multilayer-linkage triboelectric nanogenerator. <i>Nano Energy</i> , 2016, 30, 52-58.	8.2	27
114	Self-sacrificial template synthesis of Fe, N co-doped porous carbon as efficient oxygen reduction electrocatalysts towards Zn-air battery application. <i>Chinese Chemical Letters</i> , 2022, 33, 2171-2177.	4.8	26
115	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.	8.2	25
116	Bioinspired synthesis of well faceted CuI nanostructures and evaluation of their catalytic performance for coupling reactions. <i>Green Chemistry</i> , 2010, 12, 1442.	4.6	24
117	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.	1.7	24
118	Innovative Platform for Transmission Localized Surface Plasmon Transducers and Its Application in Detecting Heavy Metal Pd(II). <i>Analytical Chemistry</i> , 2009, 81, 7703-7712.	3.2	23
119	Template-assisted polymerization-pyrolysis derived mesoporous carbon anchored with Fe/Fe ₃ C and Fe ^{NX} species as efficient oxygen reduction catalysts for Zn-air battery. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 37895-37906.	3.8	23
120	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.	2.8	20
121	Transferrable Superhydrophobic Surface Constructed by a Hexagonal CuI Powder without Modification by Low-Free-Energy Materials. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2080-2085.	4.0	19
122	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.	8.2	19
123	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.	2.2	18
124	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.	3.8	18
125	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. <i>Materials Advances</i> , 2022, 3, 1359-1400.	2.6	17
126	Cotton-assisted dual rotor-stator triboelectric nanogenerator for real-time monitoring of crop growth environment. <i>Nano Energy</i> , 2022, 101, 107578.	8.2	17

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127	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. Nano Energy, 2021, 83, 105824.	8.2	15
128	Bioinspired synthesis of hierarchically micro/nano-structured CuI tetrahedron and its potential application as adsorbent for Cd(II) with high removal capacity. Journal of Hazardous Materials, 2012, 211-212, 55-61.	6.5	14
129	Phosphorized CoNi ₂ S ₄ Yolk-Shell Spheres for Highly Efficient Hydrogen Production via Water and Urea Electrolysis. Angewandte Chemie, 2021, 133, 23067-23073.	1.6	14
130	Oxidation-etching induced morphology regulation of Cu catalysts for high-performance electrochemical N ₂ reduction. EcoMat, 2020, 2, e12026.	6.8	13
131	Rational Design and Engineering of One-Dimensional Hollow Nanostructures for Efficient Electrochemical Energy Storage. Angewandte Chemie, 2021, 133, 20262-20278.	1.6	13
132	Novel 3D Printed Vortex-like Flexible Roller-Compacted Triboelectric Nanogenerator for Self-Powered Electrochemical Degradation of Organic Contaminants. ACS Applied Materials & Interfaces, 2022, 14, 17426-17433.	4.0	13
133	Bioinspired Green Synthesis of Nanomaterials and their Applications. Current Nanoscience, 2010, 6, 452-468.	0.7	12
134	Recent developments and applications of hybrid surface plasmon resonance interfaces in optical sensing. Analytical and Bioanalytical Chemistry, 2011, 399, 91-101.	1.9	12
135	Room-temperature strategy for networked nonspherical gold nanostructures from Au(III)[G-2]CO ₂ H dendrimer complex. Journal of Colloid and Interface Science, 2006, 293, 409-413.	5.0	11
136	Three-Dimensional SnS ₂ Nanoarrays with Enhanced Lithium-Ion Storage Properties. ChemElectroChem, 2020, 7, 4484-4491.	1.7	8
137	N, P-dual doped carbonaceous catalysts derived from bifunctional-salt activation for effective electro-Fenton degradation on waterborne organic pollutions. Electrochimica Acta, 2021, 389, 138732.	2.6	8
138	Fabricating N, S Co-Doped Hierarchical Macro-Meso-Micro Carbon Materials as pH-Universal ORR Electrocatalysts**. ChemistrySelect, 2022, 7, .	0.7	8
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