Chaozhong Guo

List of Publications by Year
in descending order

46 papers	1,844 citations	361296 20 h-index	265120 42 g-index
47 all docs	47 docs citations	47 times ranked	2735 citing authors

#	Article	IF	Citations
1	S, N co-doped carbon nanotubes coupled with CoFe nanoparticles as an efficient bifunctional ORR/OER electrocatalyst for rechargeable Zn-air batteries. Chemical Engineering Journal, 2022, 429, 132174.	6.6	60
2	Enhanced bifunctional catalytic performance of nitrogen-doped carbon composite to oxygen reduction and evolution reactions with the regulation of graphene for rechargeable Znâ€air batteries. Applied Surface Science, 2022, 575, 151730.	3.1	13
3	Positive regulation of active sites for oxygen evolution reactions by encapsulating NiFe₂O₄ nanoparticles in N-doped carbon nanotubes in situ to construct efficient bifunctional oxygen catalysts for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2022, 10, 5305-5316.	5.2	16
4	Double-Activator Modulation of Ultrahigh Surface Areas on Doped Carbon Catalysts Boosts the Primary Znâ€“Air Battery Performance. ACS Applied Energy Materials, 2022, 5, 1701-1709.	2.5	12
5	Highly accessible single Mn-N3 sites-enriched porous graphene structure via a confined thermal-erosion strategy for catalysis of oxygen reduction. Chemical Engineering Journal, 2022, 440, 135850.	6.6	28
6	Promoting oxygen reduction via crafting bridge-bonded oxygen ligands on a single-atom iron catalyst. Inorganic Chemistry Frontiers, 2022, 9, 3306-3318.	3.0	14
7	Accelerating the oxygen adsorption kinetics to regulate the oxygen reduction catalysis via Fe3C nanoparticles coupled with single Fe-N4 sites. Energy Storage Materials, 2022, 51, 149-158.	9.5	34
8	Biomass coffee grounds derived nitrogen-doped ultrafine carbon nanoparticles as an efficient electrocatalyst to oxygen reduction reaction. Journal of Alloys and Compounds, 2022, 920, 165895.	2.8	5
9	Two-step pyrolytic engineering to form porous nitrogen-rich carbons with a 3D network structure for Zn-air battery oxygen reduction electrocatalysis. International Journal of Hydrogen Energy, 2021, 46, 2117-2127.	3.8	11
10	Fe, N-doped graphene-wrapped carbon black nanoparticles as highly efficient catalyst towards oxygen reduction reaction. Applied Surface Science, 2021, 545, 148981.	3.1	16
11	Progress of carbon-based electrocatalysts for flexible zinc-air batteries in the past 5Âyears: recent strategies for design, synthesis and performance optimization. Nanoscale Research Letters, 2021, 16, 92.	3.1	21
12	Molecule-confined modification of graphitic C3N4 to design mesopore-dominated Fe-N-C hybrid electrocatalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2021, 46, 30355-30365.	3.8	14
13	Hierarchical cobalt-nitrogen-doped carbon composite as efficiently bifunctional oxygen electrocatalyst for rechargeable Zn-air batteries. Journal of Alloys and Compounds, 2021, 878, 160349.	2.8	15
14	Boosting oxygen reduction catalysis with tailorable active-N-dominated doped defective CNTs. Applied Surface Science, 2020, 499, 143844.	3.1	12
15	La-doped V2O5Â·nH2O@OAB and flexible Fe2O3@rGO as binder-free thin film electrodes for asymmetric supercapacitors. Chemical Engineering Journal, 2020, 389, 123534.	6.6	46
16	Constructing flexible and self-standing electrocatalyst for oxygen reduction reaction by in situ doping nitrogen atoms into carbon cloth. Applied Surface Science, 2020, 523, 146424.	3.1	7
17	Molten-salt/oxalate mediating Fe and N-doped mesoporous carbon sheet nanostructures towards highly efficient and durable oxygen reduction electrocatalysis. Microporous and Mesoporous Materials, 2020, 303, 110281.	2.2	16
18	Boosting the primary Znâ€“air battery oxygen reduction performance with mesopore-dominated semi-tubular doped-carbon nanostructures. Journal of Materials Chemistry A, 2020, 8, 9832-9842.	5.2	24

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19	Nanochannel-Controlled Synthesis of Ultrahigh Nitrogen-Doping Efficiency on Mesoporous Fe/N/C Catalysts for Oxygen Reduction Reaction. Nanoscale Research Letters, 2020, 15, 21.	3.1	9
20	High active-site availability on Feâ€“Nâ€“C oxygen reduction electrocatalysts derived from iron(II) complexes of phenanthroline with a K2C2O4 promoter. Journal of Alloys and Compounds, 2019, 809, 151822.	2.8	9
21	AÂHighly Nanoporous Nitrogen-Doped Carbon Microfiber Derived from Bioresource as a New Kind of ORR Electrocatalyst. Nanoscale Research Letters, 2019, 14, 22.	3.1	17
22	Graphdiyne-Based One-Step DNA Fluorescent Sensing Platform for the Detection of Mycobacterium tuberculosis and Its Drug-Resistant Genes. ACS Applied Materials & Interfaces, 2019, 11, 35622-35629.	4.0	38
23	Rational Construction of V₂O₅@rGO with Enhanced Pseudocapacitive Storage for Highâ€Performance Flexible Energy Storage Device. ChemElectroChem, 2019, 6, 5845-5855.	1.7	9
24	An Ultrasonication-Assisted Cobalt Hydroxide Composite with Enhanced Electrocatalytic Activity toward Oxygen Evolution Reaction. Materials, 2018, 11, 1912.	1.3	14
25	Boosting the oxygen reduction activity of a three-dimensional network Coâ€“Nâ€“C electrocatalyst via space-confined control of nitrogen-doping efficiency and the molecular-level coordination effect. Journal of Materials Chemistry A, 2018, 6, 13050-13061.	5.2	74
26	The Oxygen Reduction Electrocatalytic Activity of Cobalt and Nitrogen Co-doped Carbon Nanocatalyst Synthesized by a Flat Template. Nanoscale Research Letters, 2017, 12, 144.	3.1	30
27	Pyrolysis-induced synthesis of iron and nitrogen-containing carbon nanolayers modified graphdiyne nanostructure as a promising core-shell electrocatalyst for oxygen reduction reaction. Carbon, 2017, 119, 201-210.	5.4	99
28	Protein-enriched fish â€œbiowasteâ€•converted to three-dimensional porous carbon nano-network for advanced oxygen reduction electrocatalysis. Electrochimica Acta, 2017, 236, 228-238.	2.6	70
29	Building three-dimensional porous nano-network for the improvement of iron and nitrogen-doped carbon oxygen reductionÂelectrocatalyst. Carbon, 2017, 125, 640-648.	5.4	47
30	Heavily Graphitic-Nitrogen Self-doped High-porosity Carbon for the Electrocatalysis of Oxygen Reduction Reaction. Nanoscale Research Letters, 2017, 12, 595.	3.1	8
31	Surface Modification of Multi-Walled Carbon Nanotubes via Hemoglobin-Derived Iron and Nitrogen-Rich Carbon Nanolayers for the Electrocatalysis of Oxygen Reduction. Materials, 2017, 10, 564.	1.3	14
32	The Use of an Edible Mushroom-Derived Renewable Carbon Material as a Highly Stable Electrocatalyst towards Four-Electron Oxygen Reduction. Materials, 2016, 9, 1.	1.3	571
33	Coprinus comatus-derived nitrogen-containing biocarbon electrocatalyst with the addition of self-generating graphene-like support for superior oxygen reduction reaction. Science Bulletin, 2016, 61, 948-958.	4.3	25
34	Enhancement of photovoltaic performance by two-step dissolution processed photoactive blend in polymer solar cells. Science China Materials, 2016, 59, 842-850.	3.5	6
35	A graphene-based electrocatalyst co-doped with nitrogen and cobalt for oxygen reduction reaction. International Journal of Hydrogen Energy, 2016, 41, 20494-20501.	3.8	21
36	A Nanopore-Structured Nitrogen-Doped Biocarbon Electrocatalyst for Oxygen Reduction from Two-Step Carbonization of Lemna minor Biomass. Nanoscale Research Letters, 2016, 11, 268.	3.1	20

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37	Template-assisted conversion of aniline nanopolymers into non-precious metal FeN/C electrocatalysts for highly efficient oxygen reduction reaction. Journal of Alloys and Compounds, 2016, 686, 874-882.	2.8	29
38	Inexpensive Ipomoea aquatica Biomass-Modified Carbon Black as an Active Pt-Free Electrocatalyst for Oxygen Reduction Reaction in an Alkaline Medium. Materials, 2015, 8, 6658-6667.	1.3	9
39	The use of cheap polyaniline and melamine co-modified carbon nanotubes as active and stable catalysts for oxygen reduction reaction in alkaline medium. Electrochimica Acta, 2015, 160, 357-362.	2.6	25
40	Exploration of the catalytically active site structures of animal biomass-modified on cheap carbon nanospheres for oxygen reduction reaction with high activity, stability and methanol-tolerant performance in alkaline medium. Carbon, 2015, 85, 279-288.	5.4	91
41	High content of pyridinic- and pyrrolic-nitrogen-modified carbon nanotubes derived from blood biomass for the electrocatalysis of oxygen reduction reaction in alkaline medium. Electrochimica Acta, 2015, 168, 386-393.	2.6	50
42	Easy conversion of protein-rich enoki mushroom biomass to a nitrogen-doped carbon nanomaterial as a promising metal-free catalyst for oxygen reduction reaction. Nanoscale, 2015, 7, 15990-15998.	2.8	149
43	Research progress of voltage delay in magnesium battery. Science Bulletin, 2014, 59, 1936-1941.	1.7	10
44	Fe/N/C catalysts derived from blood protein and their electrocatalytic activity towards the oxygen reduction reaction in acidic solution. Chinese Science Bulletin, 2014, 59, 3424-3429.	0.4	7
45	The structural changes of blood pyropolymers and their beneficial electrocatalytic activity toward oxygen reduction. Science Bulletin, 2013, 58, 3698-3703.	1.7	8
46	Electrochemical behavior and analytical detection of insulin on pretreated nanocarbon black electrode surface. Analytical Methods, 2012, 4, 1377.	1.3	20