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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
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	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
20	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
21	Electrochemical behavior and analytical detection of insulin on pretreated nanocarbon black electrode surface. Analytical Methods, 2012, 4, 1377.	1.3	20
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	An Ultrasonication-Assisted Cobalt Hydroxide Composite with Enhanced Electrocatalytic Activity toward Oxygen Evolution Reaction. Materials, 2018, 11, 1912.	1.3	14
30	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
31	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
32	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
33	Boosting oxygen reduction catalysis with tailorable active-N-dominated doped defective CNTs. Applied Surface Science, 2020, 499, 143844.	3.1	12
34	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
35	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
36	Research progress of voltage delay in magnesium battery. Science Bulletin, 2014, 59, 1936-1941.	1.7	10

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37	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
38	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
39	Rational Construction of V₂O₅@rGO with Enhanced Pseudocapacitive Storage for Highâ€Performance Flexible Energy Storage Device. ChemElectroChem, 2019, 6, 5845-5855.	1.7	9
40	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
41	The structural changes of blood pyropolymers and their beneficial electrocatalytic activity toward oxygen reduction. Science Bulletin, 2013, 58, 3698-3703.	1.7	8
42	Heavily Graphitic-Nitrogen Self-doped High-porosity Carbon for the Electrocatalysis of Oxygen Reduction Reaction. Nanoscale Research Letters, 2017, 12, 595.	3.1	8
43	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
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	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
46	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