Guoxin Zhang

List of Publications by Year
in descending order

89 papers	6,350 citations	159585 30 h-index	64796 79 g-index
90 all docs	90 docs citations	90 times ranked	10582 citing authors

#	Article	IF	Citations
1	Single-atom Zn for boosting supercapacitor performance. Nano Research, 2022, 15, 1715-1724.	10.4	26
2	An integrated strategy based on Schiff base reactions to construct unique two-dimensional nanostructures for intrinsic pseudocapacitive sodium/lithium storage. Chemical Engineering Journal, 2022, 429, 132339.	12.7	12
3	Strongly coupled Fe-doped NiS₂/MoS₂ composite for high-efficiency water splitting. Chemical Communications, 2022, 58, 557-560.	4.1	10
4	Confined synthesis of MoS2 with rich co-doped edges for enhanced hydrogen evolution performance. Journal of Energy Chemistry, 2022, 70, 18-26.	12.9	29
5	Oxygenated boron-doped carbon via polymer dehalogenation as an electrocatalyst for high-efficiency O2 reduction to H2O2. Science China Materials, 2022, 65, 1276-1284.	6.3	21
6	Research Progresses and Challenges of Flexible Zinc Battery. Frontiers in Chemistry, 2022, 10, 827563.	3.6	10
7	Tetrafunctional template-assisted strategy to preciously construct co-doped Sb@C nanofiber with longitudinal tunnels for ultralong-life and high-rate sodium storage. Energy Storage Materials, 2022, 48, 90-100.	18.0	27
8	A catalyst-free preparation of conjugated poly iron-phthalocyanine and its superior oxygen reduction reaction activity. Chemical Engineering Journal, 2022, 445, 136784.	12.7	33
9	Oxygenated P/N co-doped carbon for efficient 2e^{â”}oxygen reduction to H₂O₂. Journal of Materials Chemistry A, 2022, 10, 14355-14363.	10.3	22
10	Hierarchical porous N,Sâ€codoped carbon material derived from halogenated polymer for battery applications. Nano Select, 2021, 2, 581-590.	3.7	1
11	Formamide-derived â€œglueâ€•for the hundred-gram scale synthesis of atomically dispersed ironâ€“nitrogenâ€“carbon electrocatalysts. Nanoscale, 2021, 13, 17890-17899.	5.6	4
12	Low-Cost Gel Polymer Electrolyte for High-Performance Aluminum-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 28164-28170.	8.0	31
13	A reliable gel polymer electrolyte enables stable cycling of rechargeable aluminum batteries in a wide-temperature range. Journal of Power Sources, 2021, 497, 229839.	7.8	26
14	Rational Construction of Fluffy CNT on Binary FeCoâ€NC as Highâ€Efficiency S Host for Liâ”S Battery. ChemElectroChem, 2021, 8, 3239-3242.	3.4	4
15	Flexible carbon nanofiber film with diatomic Fe-Co sites for efficient oxygen reduction and evolution reactions in wearable zinc-air batteries. Nano Energy, 2021, 87, 106147.	16.0	103
16	N-doped carbon nanoflower-supported Fe-N4 motifs for high-efficiency reduction of oxygen in both alkaline and acid. Chemical Engineering Journal, 2021, 424, 130401.	12.7	20
17	A ternary B, N, P-Doped carbon material with suppressed water splitting activity for high-energy aqueous supercapacitors. Carbon, 2020, 170, 127-136.	10.3	62
18	Hierarchically Porous N, P-Codoped Carbon Materials for High-Performance Supercapacitors. ACS Applied Energy Materials, 2020, 3, 10080-10088.	5.1	25

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19	Boosting the bifunctional oxygen electrocatalytic performance of atomically dispersed Fe site via atomic Ni neighboring. Applied Catalysis B: Environmental, 2020, 274, 119091.	20.2	130
20	Hierarchically porous carbon from foamed Mg chelate for supercapacitor and capacitive deionization. Ionics, 2020, 26, 4713-4721.	2.4	0
21	Assisting Atomic Dispersion of Fe in N-Doped Carbon by Aerosil for High-Efficiency Oxygen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 25832-25842.	8.0	17
22	Atomically Dispersed Fe-N4 Modified with Precisely Located S for Highly Efficient Oxygen Reduction. Nano-Micro Letters, 2020, 12, 116.	27.0	99
23	Pyrolysis-free formamide-derived N-doped carbon supporting atomically dispersed cobalt as high-performance bifunctional oxygen electrocatalyst. Journal of Energy Chemistry, 2020, 49, 283-290.	12.9	35
24	Ultrasmall NiFe layered double hydroxide strongly coupled on atomically dispersed FeCo-NC nanoflowers as efficient bifunctional catalyst for rechargeable Zn-air battery. Science China Materials, 2020, 63, 1182-1195.	6.3	44
25	Binary FeCo-N-doped carbon/carbon nanotube composites for efficient oxygen reduction and high-performance aluminum-air battery. Journal of Power Sources, 2020, 456, 227933.	7.8	14
26	Sacrificial carbon nitride-templated hollow FeCo-NC material for highly efficient oxygen reduction reaction and Al-air battery. Electrochimica Acta, 2020, 341, 136066.	5.2	14
27	Hierarchical peony-like FeCo-NC with conductive network and highly active sites as efficient electrocatalyst for rechargeable Zn-air battery. Nano Research, 2020, 13, 1090-1099.	10.4	77
28	Electrochemical heavy metal removal from water using PVC waste-derived N, S co-doped carbon materials. RSC Advances, 2020, 10, 4064-4070.	3.6	17
29	An advanced zinc air battery with nanostructured superwetting electrodes. Energy Storage Materials, 2019, 17, 358-365.	18.0	25
30	Ultrathin atomic Mn-decorated formamide-converted N-doped carbon for efficient oxygen reduction reaction. Nanoscale, 2019, 11, 15900-15906.	5.6	43
31	A density functional theory study of the oxygen reduction reaction on the (111) and (100) surfaces of cobalt(II) oxide. Progress in Reaction Kinetics and Mechanism, 2019, 44, 122-131.	2.1	6
32	A general route via formamide condensation to prepare atomically dispersed metalâ€“nitrogenâ€“carbon electrocatalysts for energy technologies. Energy and Environmental Science, 2019, 12, 1317-1325.	30.8	290
33	Interconnected polypyrrole nanostructure for high-performance all-solid-state flexible supercapacitor. Electrochimica Acta, 2019, 298, 918-923.	5.2	26
34	Molten alkaline synthesis of highly porous carbon from calcium carbide. Microporous and Mesoporous Materials, 2019, 278, 397-402.	4.4	5
35	A general approach to homogeneous sub-nanometer metallic particle/graphene composites by S-coordinator. Solid State Communications, 2018, 273, 17-22.	1.9	2
36	A highly-efficient oxygen evolution electrode based on defective nickel-iron layered double hydroxide. Science China Materials, 2018, 61, 939-947.	6.3	69

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37	Tuning Electronic Structure of NiFe Layered Double Hydroxides with Vanadium Doping toward High Efficient Electrocatalytic Water Oxidation. Advanced Energy Materials, 2018, 8, 1703341.	19.5	505
38	Scalable fabrication of hierarchically porous N-doped carbon electrode materials for high-performance aqueous symmetric supercapacitor. Journal of Materials Science, 2018, 53, 5194-5203.	3.7	12
39	Fabricating Sulfur/Oxygen Coâ€Doped Crumpled Graphene for Highâ€Performance Oxygen Reduction Reaction Electrocatalysis. ChemElectroChem, 2018, 5, 242-246.	3.4	4
40	Topotactic conversion of calcium carbide to highly crystalline few-layer graphene in water. Journal of Materials Chemistry A, 2018, 6, 23638-23643.	10.3	8
41	Polyvinylchloride-derived N, S co-doped carbon as an efficient sulfur host for high-performance Liâ€“S batteries. RSC Advances, 2018, 8, 37811-37816.	3.6	10
42	Using an AlCl₃/Urea Ionic Liquid Analog Electrolyte for Improving the Lifetime of Aluminumâ€Sulfur Batteries. ChemElectroChem, 2018, 5, 3607-3611.	3.4	49
43	Fabricating hierarchically porous carbon with well-defined open pores via polymer dehalogenation for high-performance supercapacitor. Applied Surface Science, 2018, 440, 606-613.	6.1	18
44	Dehalogenated carbon-hosted cobalt-nitrogen complexes for high-performance electrochemical reduction of oxygen. Carbon, 2018, 139, 725-731.	10.3	3
45	Room-temperature rapid synthesis of metal-free doped carbon materials. Carbon, 2017, 115, 28-33.	10.3	18
46	A two-volt aqueous supercapacitor from porous dehalogenated carbon. Journal of Materials Chemistry A, 2017, 5, 6734-6739.	10.3	23
47	Thin sandwich graphene oxide@N-doped carbon composites for high-performance supercapacitors. RSC Advances, 2017, 7, 22071-22078.	3.6	6
48	Tuning the wettability of carbon nanotube arrays for efficient bifunctional catalysts and Znâ€“air batteries. Journal of Materials Chemistry A, 2017, 5, 7103-7110.	10.3	62
49	Single Crystalline Ultrathin Nickelâ€“Cobalt Alloy Nanosheets Array for Direct Hydrazine Fuel Cells. Advanced Science, 2017, 4, 1600179.	11.2	104
50	Enhancing Oxygen Reduction Activity by Exposing (111) Facets of CoFe₂O₄ Octahedron on Graphene. ChemistrySelect, 2017, 2, 9878-9881.	1.5	4
51	Interfacial dehalogenation-enabled hollow N-doped carbon network as bifunctional catalysts for rechargeable Zn-air battery. Electrochimica Acta, 2017, 247, 1044-1051.	5.2	19
52	Polymer Dehalogenation-Enabled Fast Fabrication of N,S-Codoped Carbon Materials for Superior Supercapacitor and Deionization Applications. ACS Applied Materials & Interfaces, 2017, 9, 29753-29759.	8.0	81
53	Cobaltâ€Embedded Nitrogenâ€Doped Carbon Nanotubes as Highâ€Performance Bifunctional Oxygen Catalysts. Energy Technology, 2017, 5, 1265-1271.	3.8	26
54	Superaerophobic RuO₂â€Based Nanostructured Electrode for Highâ€Performance Chlorine Evolution Reaction. Small, 2017, 13, 1602240.	10.0	93

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55	Unconventional Carbon: Alkaline Dehalogenation of Polymers Yields Nâ€Doped Carbon Electrode for Highâ€Performance Capacitive Energy Storage. Advanced Functional Materials, 2016, 26, 3340-3348.	14.9	95
56	ZnO-promoted dechlorination for hierarchically nanoporous carbon as superior oxygen reduction electrocatalyst. Nano Energy, 2016, 26, 241-247.	16.0	72
57	Synthesis of Ultrastable Ag Nanoplates/Polyethylenimineâ€“Reduced Graphene Oxide and Its Application as a Versatile Electrochemical Sensor. Chemistry - A European Journal, 2016, 22, 10923-10929.	3.3	8
58	Size Control Methods and Size-Dependent Properties of Graphene. , 2016, , 27-40.		0
59	N-doped crumpled graphene: bottom-up synthesis and its superior oxygen reduction performance. Science China Materials, 2016, 59, 337-347.	6.3	39
60	Oneâ€Step Scalable Production of Co_{1â^'}_xS/Graphene Nanocomposite as Highâ€Performance Bifunctional Electrocatalyst. Particle and Particle Systems Characterization, 2016, 33, 569-575.	2.3	21
61	An alternative pathway to water soluble functionalized graphene from the defluorination of graphite fluoride. Carbon, 2016, 96, 1022-1027.	10.3	21
62	A metallic CoS₂ nanopyramid array grown on 3D carbon fiber paper as an excellent electrocatalyst for hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 6306-6310.	10.3	145
63	Rational design of graphene oxide and its hollow CoO composite for superior oxygen reduction reaction. Science China Materials, 2015, 58, 534-542.	6.3	30
64	Room-temperature synthetic NiFe layered double hydroxide with different anions intercalation as an excellent oxygen evolution catalyst. RSC Advances, 2015, 5, 55131-55135.	3.6	77
65	Enhancement of capacitive deionization capacity of hierarchical porous carbon. Journal of Materials Chemistry A, 2015, 3, 12730-12737.	10.3	69
66	Residual metals present in â€œmetal-freeâ€•N-doped carbons. Chemical Communications, 2015, 51, 15585-15587.	4.1	11
67	Nucleic acid from beans extracted by ethanediamine magnetic particles. Journal of Food Science and Technology, 2015, 52, 1784-1789.	2.8	2
68	Cicada wing decorated by silver nanoparticles as low-cost and active/sensitive substrates for surface-enhanced Raman scattering. Journal of Applied Physics, 2014, 115, .	2.5	30
69	Improving Energy Conversion Efficiency of Dye-Sensitized Solar Cells by Modifying TiO₂ Photoanodes with Nitrogen-Reduced Graphene Oxide. ACS Sustainable Chemistry and Engineering, 2014, 2, 1234-1240.	6.7	59
70	Highly Crystallized Cubic Cattierite CoS 2 for Electrochemically Hydrogen Evolution over Wide pH Range from 0 to 14. Electrochimica Acta, 2014, 148, 170-174.	5.2	80
71	Green sacrificial template fabrication of hierarchical MoO3 nanostructures. CrystEngComm, 2014, 16, 3935.	2.6	13
72	Urchin-like TiO₂@C coreâ€“shell microspheres: coupled synthesis and lithium-ion battery applications. Physical Chemistry Chemical Physics, 2014, 16, 8808-8811.	2.8	25

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73	A 3D Nanoporous Ni-Mo Electrocatalyst with Negligible Overpotential for Alkaline Hydrogen Evolution. ChemElectroChem, 2014, 1, 1089-1089.	3.4	1
74	High-performance aqueous battery with double hierarchical nanoarrays. Nano Energy, 2014, 10, 229-234.	16.0	24
75	A 3D Nanoporous Niâ€“Mo Electrocatalyst with Negligible Overpotential for Alkaline Hydrogen Evolution. ChemElectroChem, 2014, 1, 1138-1144.	3.4	113
76	Promoted Oxygen Reduction Activity of Ag/Reduced Graphene Oxide by Incorporated CoOx. Electrochimica Acta, 2014, 132, 136-141.	5.2	13
77	V2O5 nanostructure arrays: controllable synthesis and performance as cathodes for lithium ion batteries. RSC Advances, 2013, 3, 19937.	3.6	14
78	One-step scalable preparation of N-doped nanoporous carbon as a high-performance electrocatalyst for the oxygen reduction reaction. Nano Research, 2013, 6, 293-301.	10.4	142
79	Hierarchical Ni0.25Co0.75(OH)2 nanoarrays for a high-performance supercapacitor electrode prepared by an in situ conversion process. Journal of Materials Chemistry A, 2013, 1, 8327.	10.3	74
80	Understanding the â€œTailoring Synthesisâ€•of CdS Nanorods by O₂. Inorganic Chemistry, 2012, 51, 1302-1308.	4.0	16
81	Detection and Isolation of Dendritic Cells Using Lewis X-Functionalized Magnetic Nanoparticles. Biomacromolecules, 2012, 13, 3039-3045.	5.4	9
82	Extracting genomic DNA of foodstuff by polyamidoamine (PAMAM)â€“magnetite nanoparticles. Talanta, 2012, 93, 166-171.	5.5	16
83	Preparation of Multiâ€Metal Oxide Hollow Sphere Using Layered Double Hydroxide Precursors. Chinese Journal of Chemistry, 2012, 30, 2183-2188.	4.9	13
84	One-pot solvothermal method to prepare functionalized Fe3O4 nanoparticles for bioseparation. Journal of Materials Research, 2012, 27, 1006-1013.	2.6	17
85	Evaluation Criteria for Reduced Graphene Oxide. Journal of Physical Chemistry C, 2011, 115, 11327-11335.	3.1	451
86	Graphene in Mice: Ultrahigh In Vivo Tumor Uptake and Efficient Photothermal Therapy. Nano Letters, 2010, 10, 3318-3323.	9.1	2,213
87	Toward High-Voltage/Energy Symmetric Supercapacitors via Interface Engineering. , 0, , .		1
88	Converting Polyvinyl Chloride Plastic Wastes to Carbonaceous Materials via Room-Temperature Dehalogenation for High-Performance Supercapacitor. ACS Applied Energy Materials, 0, , .	5.1	9
89	Formamide-soluble solid-state ZnO as Zn source for synthesizing FeCoâ€“NC with ultrahigh oxygen reduction reaction activity. Materials Chemistry Frontiers, 0, , .	5.9	3