# Guoxin Zhang

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Graphene in Mice: Ultrahigh In Vivo Tumor Uptake and Efficient Photothermal Therapy. Nano Letters, 2010, 10, 3318-3323. | 9.1 | 2,213 |
| 2 | 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 |
| 3 | Evaluation Criteria for Reduced Graphene Oxide. Journal of Physical Chemistry C, 2011, 115, 11327-11335. | 3.1 | 451 |
| 4 | 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 |
| 5 | A metallic CoS<sub>2</sub> 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | A 3D Nanoporous Niâ€“Mo Electrocatalyst with Negligible Overpotential for Alkaline Hydrogen Evolution. ChemElectroChem, 2014, 1, 1138-1144. | 3.4 | 113 |
| 9 | Single Crystalline Ultrathin Nickelâ€“Cobalt Alloy Nanosheets Array for Direct Hydrazine Fuel Cells. Advanced Science, 2017, 4, 1600179. | 11.2 | 104 |
| 10 | 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 |
| 11 | Atomically Dispersed Fe-N4 Modified with Precisely Located S for Highly Efficient Oxygen Reduction. Nano-Micro Letters, 2020, 12, 116. | 27.0 | 99 |
| 12 | 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 |
| 13 | Superaerophobic RuO<sub>2</sub>â€Based Nanostructured Electrode for Highâ€Performance Chlorine Evolution Reaction. Small, 2017, 13, 1602240. | 10.0 | 93 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|---|---|---|---|
| 19 | ZnO-promoted dechlorination for hierarchically nanoporous carbon as superior oxygen reduction electrocatalyst. Nano Energy, 2016, 26, 241-247. | 16.0 | 72 |
| 20 | Enhancement of capacitive deionization capacity of hierarchical porous carbon. Journal of Materials Chemistry A, 2015, 3, 12730-12737. | 10.3 | 69 |
| 21 | A highly-efficient oxygen evolution electrode based on defective nickel-iron layered double hydroxide. Science China Materials, 2018, 61, 939-947. | 6.3 | 69 |
| 22 | 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 |
| 23 | 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 |
| 24 | Improving Energy Conversion Efficiency of Dye-Sensitized Solar Cells by Modifying TiO<sub>2</sub> Photoanodes with Nitrogen-Reduced Graphene Oxide. ACS Sustainable Chemistry and Engineering, 2014, 2, 1234-1240. | 6.7 | 59 |
| 25 | Using an AlCl<sub>3</sub>/Urea Ionic Liquid Analog Electrolyte for Improving the Lifetime of Aluminumâ€Sulfur Batteries. ChemElectroChem, 2018, 5, 3607-3611. | 3.4 | 49 |
| 26 | 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 |
| 27 | Ultrathin atomic Mn-decorated formamide-converted N-doped carbon for efficient oxygen reduction reaction. Nanoscale, 2019, 11, 15900-15906. | 5.6 | 43 |
| 28 | N-doped crumpled graphene: bottom-up synthesis and its superior oxygen reduction performance. Science China Materials, 2016, 59, 337-347. | 6.3 | 39 |
| 29 | 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 |
| 30 | 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 |
| 31 | Low-Cost Gel Polymer Electrolyte for High-Performance Aluminum-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 28164-28170. | 8.0 | 31 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | Cobaltâ€Embedded Nitrogenâ€Doped Carbon Nanotubes as Highâ€Performance Bifunctional Oxygen Catalysts. Energy Technology, 2017, 5, 1265-1271. | 3.8 | 26 |

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|---|---|---|---|
| 37 | Interconnected polypyrrole nanostructure for high-performance all-solid-state flexible supercapacitor. Electrochimica Acta, 2019, 298, 918-923. | 5.2 | 26 |
| 38 | 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 |
| 39 | Single-atom Zn for boosting supercapacitor performance. Nano Research, 2022, 15, 1715-1724. | 10.4 | 26 |
| 40 | Urchin-like TiO<sub>2</sub>@C coreâ€“shell microspheres: coupled synthesis and lithium-ion battery applications. Physical Chemistry Chemical Physics, 2014, 16, 8808-8811. | 2.8 | 25 |
| 41 | An advanced zinc air battery with nanostructured superwetting electrodes. Energy Storage Materials, 2019, 17, 358-365. | 18.0 | 25 |
| 42 | Hierarchically Porous N, P-Codoped Carbon Materials for High-Performance Supercapacitors. ACS Applied Energy Materials, 2020, 3, 10080-10088. | 5.1 | 25 |
| 43 | High-performance aqueous battery with double hierarchical nanoarrays. Nano Energy, 2014, 10, 229-234. | 16.0 | 24 |
| 44 | A two-volt aqueous supercapacitor from porous dehalogenated carbon. Journal of Materials Chemistry A, 2017, 5, 6734-6739. | 10.3 | 23 |
| 45 | Oxygenated P/N co-doped carbon for efficient 2e<sup>â^'</sup>oxygen reduction to H<sub>2</sub>O<sub>2</sub>. Journal of Materials Chemistry A, 2022, 10, 14355-14363. | 10.3 | 22 |
| 46 | Oneâ€Step Scalable Production of Co<sub>1â^'</sub><sub>x</sub>S/Graphene Nanocomposite as Highâ€Performance Bifunctional Electrocatalyst. Particle and Particle Systems Characterization, 2016, 33, 569-575. | 2.3 | 21 |
| 47 | An alternative pathway to water soluble functionalized graphene from the defluorination of graphite fluoride. Carbon, 2016, 96, 1022-1027. | 10.3 | 21 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Room-temperature rapid synthesis of metal-free doped carbon materials. Carbon, 2017, 115, 28-33. | 10.3 | 18 |
| 52 | 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 |
| 53 | One-pot solvothermal method to prepare functionalized Fe3O4 nanoparticles for bioseparation. Journal of Materials Research, 2012, 27, 1006-1013. | 2.6 | 17 |
| 54 | 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 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Understanding the â€œTailoring Synthesisâ€•of CdS Nanorods by O<sub>2</sub>. Inorganic Chemistry, 2012, 51, 1302-1308. | 4.0 | 16 |
| 57 | Extracting genomic DNA of foodstuff by polyamidoamine (PAMAM)â€“magnetite nanoparticles. Talanta, 2012, 93, 166-171. | 5.5 | 16 |
| 58 | V2O5 nanostructure arrays: controllable synthesis and performance as cathodes for lithium ion batteries. RSC Advances, 2013, 3, 19937. | 3.6 | 14 |
| 59 | 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 |
| 60 | 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 |
| 61 | Preparation of Multiâ€Metal Oxide Hollow Sphere Using Layered Double Hydroxide Precursors. Chinese Journal of Chemistry, 2012, 30, 2183-2188. | 4.9 | 13 |
| 62 | Green sacrificial template fabrication of hierarchical MoO3 nanostructures. CrystEngComm, 2014, 16, 3935. | 2.6 | 13 |
| 63 | Promoted Oxygen Reduction Activity of Ag/Reduced Graphene Oxide by Incorporated CoOx. Electrochimica Acta, 2014, 132, 136-141. | 5.2 | 13 |
| 64 | 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 |
| 65 | 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 |
| 66 | Residual metals present in â€œmetal-freeâ€•N-doped carbons. Chemical Communications, 2015, 51, 15585-15587. | 4.1 | 11 |
| 67 | 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 |
| 68 | Strongly coupled Fe-doped NiS<sub>2</sub>/MoS<sub>2</sub> composite for high-efficiency water splitting. Chemical Communications, 2022, 58, 557-560. | 4.1 | 10 |
| 69 | Research Progresses and Challenges of Flexible Zinc Battery. Frontiers in Chemistry, 2022, 10, 827563. | 3.6 | 10 |
| 70 | Detection and Isolation of Dendritic Cells Using Lewis X-Functionalized Magnetic Nanoparticles. Biomacromolecules, 2012, 13, 3039-3045. | 5.4 | 9 |
| 71 | Converting Polyvinyl Chloride Plastic Wastes to Carbonaceous Materials via Room-Temperature Dehalogenation for High-Performance Supercapacitor. ACS Applied Energy Materials, 0, , . | 5.1 | 9 |
| 72 | 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 |

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| 73 | 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 |
| 74 | Thin sandwich graphene oxide@N-doped carbon composites for high-performance supercapacitors. RSC Advances, 2017, 7, 22071-22078. | 3.6 | 6 |
| 75 | 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 |
| 76 | Molten alkaline synthesis of highly porous carbon from calcium carbide. Microporous and Mesoporous Materials, 2019, 278, 397-402. | 4.4 | 5 |
| 77 | Enhancing Oxygen Reduction Activity by Exposing (111) Facets of CoFe<sub>2</sub>O<sub>4</sub> Octahedron on Graphene. ChemistrySelect, 2017, 2, 9878-9881. | 1.5 | 4 |
| 78 | Fabricating Sulfur/Oxygen Coâ€Doped Crumpled Graphene for Highâ€Performance Oxygen Reduction Reaction Electrocatalysis. ChemElectroChem, 2018, 5, 242-246. | 3.4 | 4 |
| 79 | 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 |
| 80 | 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 |
| 81 | Dehalogenated carbon-hosted cobalt-nitrogen complexes for high-performance electrochemical reduction of oxygen. Carbon, 2018, 139, 725-731. | 10.3 | 3 |
| 82 | 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 |
| 83 | Nucleic acid from beans extracted by ethanediamine magnetic particles. Journal of Food Science and Technology, 2015, 52, 1784-1789. | 2.8 | 2 |
| 84 | A general approach to homogeneous sub-nanometer metallic particle/graphene composites by S-coordinator. Solid State Communications, 2018, 273, 17-22. | 1.9 | 2 |
| 85 | A 3D Nanoporous Ni-Mo Electrocatalyst with Negligible Overpotential for Alkaline Hydrogen Evolution. ChemElectroChem, 2014, 1, 1089-1089. | 3.4 | 1 |
| 86 | Toward High-Voltage/Energy Symmetric Supercapacitors via Interface Engineering. , 0, , . | | 1 |
| 87 | Hierarchical porous N,Sâ€codoped carbon material derived from halogenated polymer for battery applications. Nano Select, 2021, 2, 581-590. | 3.7 | 1 |
| 88 | Size Control Methods and Size-Dependent Properties of Graphene. , 2016, , 27-40. | | 0 |
| 89 | Hierarchically porous carbon from foamed Mg chelate for supercapacitor and capacitive deionization. Ionics, 2020, 26, 4713-4721. | 2.4 | 0 |