

Shenlong Zhao

List of Publications by Year in descending order

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83
papers

11,871
citations

44042

48
h-index

58549

82
g-index

83
all docs

83
docs citations

83
times ranked

13098
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , 2016, 1, . | 19.8 | 1,979 |
| 2 | Ultrathin platinum nanowires grown on single-layered nickel hydroxide with high hydrogen evolution activity. <i>Nature Communications</i> , 2015, 6, 6430. | 5.8 | 848 |
| 3 | Structural transformation of highly active metal-organic framework electrocatalysts during the oxygen evolution reaction. <i>Nature Energy</i> , 2020, 5, 881-890. | 19.8 | 647 |
| 4 | Carbonized Nanoscale Metal-Organic Frameworks as High Performance Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Nano</i> , 2014, 8, 12660-12668. | 7.3 | 509 |
| 5 | Three-Dimensional Graphene/Metal Oxide Nanoparticle Hybrids for High-Performance Capacitive Deionization of Saline Water. <i>Advanced Materials</i> , 2013, 25, 6270-6276. | 11.1 | 499 |
| 6 | A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. <i>Energy and Environmental Science</i> , 2017, 10, 893-899. | 15.6 | 412 |
| 7 | Co ₃ O ₄ Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO ₂ . <i>Advanced Materials</i> , 2016, 28, 6485-6490. | 11.1 | 395 |
| 8 | Metal-Organic Frameworks Encapsulating Active Nanoparticles as Emerging Composites for Catalysis: Recent Progress and Perspectives. <i>Advanced Materials</i> , 2018, 30, e1800702. | 11.1 | 362 |
| 9 | Cage-Confinement Pyrolysis Route to Ultrasmall Tungsten Carbide Nanoparticles for Efficient Electrocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2017, 139, 5285-5288. | 6.6 | 336 |
| 10 | A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. <i>Matter</i> , 2020, 2, 896-907. | 5.0 | 310 |
| 11 | Carbon-Based Metal-Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. <i>Advanced Materials</i> , 2019, 31, e1801526. | 11.1 | 273 |
| 12 | Carbon-Based Metal-Free Catalysts for Electrocatalytic Reduction of Nitrogen for Synthesis of Ammonia at Ambient Conditions. <i>Advanced Materials</i> , 2019, 31, e1805367. | 11.1 | 247 |
| 13 | Microwave-Assisted Rapid Synthesis of Graphene-Supported Single Atomic Metals. <i>Advanced Materials</i> , 2018, 30, e1802146. | 11.1 | 244 |
| 14 | Electrocatalytic hydrogen evolution under neutral pH conditions: current understandings, recent advances, and future prospects. <i>Energy and Environmental Science</i> , 2020, 13, 3185-3206. | 15.6 | 225 |
| 15 | A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4793-4799. | 7.2 | 217 |
| 16 | Three-dimensional graphene/Pt nanoparticle composites as freestanding anode for enhancing performance of microbial fuel cells. <i>Science Advances</i> , 2015, 1, e1500372. | 4.7 | 209 |
| 17 | Photo-Rechargeable Fabrics as Sustainable and Robust Power Sources for Wearable Bioelectronics. <i>Matter</i> , 2020, 2, 1260-1269. | 5.0 | 204 |
| 18 | Recent Progress of Carbon-Supported Single-Atom Catalysts for Energy Conversion and Storage. <i>Matter</i> , 2020, 3, 1442-1476. | 5.0 | 196 |

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|----|--|------|-----------|
| 19 | Three dimensional N-doped graphene/PtRu nanoparticle hybrids as high performance anode for direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3719. | 5.2 | 183 |
| 20 | Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <i>Matter</i> , 2020, 3, 2124-2137. | 5.0 | 177 |
| 21 | A linear-to-rotary hybrid nanogenerator for high-performance wearable biomechanical energy harvesting. <i>Nano Energy</i> , 2020, 67, 104235. | 8.2 | 172 |
| 22 | Reordering d Orbital Energies of Single-Atom Site Catalysts for CO ₂ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12711-12716. | 7.2 | 166 |
| 23 | Cation-Tuning Induced d-Band Center Modulation on Co-Based Spinel Oxide for Oxygen Reduction/Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 156 |
| 24 | Promoting Energy Efficiency via a Self-Adaptive Evaporative Cooling Hydrogel. <i>Advanced Materials</i> , 2020, 32, e1907307. | 11.1 | 151 |
| 25 | Insight into Structural Evolution, Active Sites, and Stability of Heterogeneous Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 140 |
| 26 | Cation-Vacancy-Enriched Nickel Phosphide for Efficient Electrosynthesis of Hydrogen Peroxides. <i>Advanced Materials</i> , 2022, 34, e2106541. | 11.1 | 123 |
| 27 | Activating Lattice Oxygen in Layered Lithium Oxides through Cation Vacancies for Enhanced Urea Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 116 |
| 28 | An approaching-theoretical-capacity anode material for aqueous battery: Hollow hexagonal prism Bi ₂ O ₃ assembled by nanoparticles. <i>Energy Storage Materials</i> , 2020, 28, 82-90. | 9.5 | 109 |
| 29 | Make it stereoscopic: interfacial design for full-temperature adaptive flexible zinc-air batteries. <i>Energy and Environmental Science</i> , 2021, 14, 4926-4935. | 15.6 | 108 |
| 30 | Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2208-2217. | 6.6 | 103 |
| 31 | Metal-Organic Frameworks for Electrocatalysis: Beyond Their Derivatives. <i>Small Science</i> , 2021, 1, 2100015. | 5.8 | 94 |
| 32 | Bread-derived 3D macroporous carbon foams as high performance free-standing anode in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2018, 122, 217-223. | 5.3 | 91 |
| 33 | Metallic Cobalt-Carbon Composite as Recyclable and Robust Magnetic Photocatalyst for Efficient CO ₂ Reduction. <i>Small</i> , 2018, 14, e1800762. | 5.2 | 91 |
| 34 | Efficient water oxidation under visible light by tuning surface defects on ceria nanorods. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20465-20470. | 5.2 | 82 |
| 35 | Multistaged discharge constructing heterostructure with enhanced solid-solution behavior for long-life lithium-oxygen batteries. <i>Nature Communications</i> , 2019, 10, 5810. | 5.8 | 80 |
| 36 | Nanostructured photoelectrochemical biosensor for highly sensitive detection of organophosphorous pesticides. <i>Biosensors and Bioelectronics</i> , 2015, 64, 1-5. | 5.3 | 78 |

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|----|---|------|-----------|
| 37 | Recent advances in electrocatalytic chloride oxidation for chlorine gas production. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18974-18993. | 5.2 | 75 |
| 38 | Porous Fe-Nx/C hybrid derived from bi-metal organic frameworks as high efficient electrocatalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2016, 311, 137-143. | 4.0 | 71 |
| 39 | Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , 2020, 5, 3560-3568. | 8.8 | 70 |
| 40 | Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO ₂ cycloaddition. <i>Science Advances</i> , 2020, 6, eaaz4824. | 4.7 | 68 |
| 41 | Revealing into the Active Moieties of Metal Xides (X = Phosphorus, Sulfur, Nitrogen, and Carbon) Toward Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2102918. | 7.8 | 68 |
| 42 | Carbon Nanomaterials for Energy and Biorelated Catalysis: Recent Advances and Looking Forward. <i>ACS Central Science</i> , 2019, 5, 389-408. | 5.3 | 67 |
| 43 | Single-metal-atom catalysts: An emerging platform for electrocatalytic oxygen reduction. <i>Chemical Engineering Journal</i> , 2021, 406, 127135. | 6.6 | 67 |
| 44 | Sandwich-Like Reduced Graphene Oxide/Carbon Black/Amorphous Cobalt Borate Nanocomposites as Bifunctional Cathode Electrocatalyst in Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801495. | 10.2 | 65 |
| 45 | Optical Activity of Chiral Metal Nanoclusters. <i>Accounts of Materials Research</i> , 2021, 2, 21-35. | 5.9 | 62 |
| 46 | Rechargeable zinc-air batteries with neutral electrolytes: Recent advances, challenges, and prospects. <i>EnergyChem</i> , 2021, 3, 100055. | 10.1 | 59 |
| 47 | A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. <i>Angewandte Chemie</i> , 2020, 132, 4823-4829. | 1.6 | 57 |
| 48 | Cu ₂ O clusters grown on TiO ₂ nanoplates as efficient photocatalysts for hydrogen generation. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 488-493. | 3.0 | 54 |
| 49 | Regulating electron transfer over asymmetric low-spin Co(II) for highly selective electrocatalysis. <i>Chem Catalysis</i> , 2022, 2, 372-385. | 2.9 | 50 |
| 50 | Octahedral Coordinated Trivalent Cobalt Enriched Multimetal Oxygen Evolution Catalysts. <i>Advanced Energy Materials</i> , 2020, 10, 2002593. | 10.2 | 47 |
| 51 | Structure regulated catalytic performance of gold nanocluster-MOF nanocomposites. <i>Nano Research</i> , 2020, 13, 1928-1932. | 5.8 | 46 |
| 52 | Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. <i>Energy and Environmental Science</i> , 2021, 14, 3502-3509. | 15.6 | 45 |
| 53 | Geometrically Deformed Iron-Based Single-Atom Catalysts for High-Performance Acidic Proton Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 2022, 12, 5397-5406. | 5.5 | 43 |
| 54 | Ni ₅ P ₄ -Ni ₂ P nanosheet matrix enhances electron-transfer kinetics for hydrogen recovery in microbial electrolysis cells. <i>Applied Energy</i> , 2018, 209, 56-64. | 5.1 | 39 |

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|----|---|-----|-----------|
| 55 | Insight into Structural Evolution, Active Sites, and Stability of Heterogeneous Electrocatalysts. <i>Angewandte Chemie</i> , 2022, 134, . | 1.6 | 38 |
| 56 | Research on Carbon-Based Electrode Materials for Supercapacitors. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2017, 33, 130-148. | 2.2 | 32 |
| 57 | Atomically dispersed S-Fe-N4 for fast kinetics sodium-sulfur batteries via a dual function mechanism. <i>Cell Reports Physical Science</i> , 2021, 2, 100531. | 2.8 | 31 |
| 58 | Foldable and scrollable graphene paper with tuned interlayer spacing as high areal capacity anodes for sodium-ion batteries. <i>Energy Storage Materials</i> , 2021, 41, 395-403. | 9.5 | 28 |
| 59 | Ultraparpermeable Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. <i>ACS Central Science</i> , 2021, 7, 671-680. | 5.3 | 27 |
| 60 | Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. <i>IScience</i> , 2020, 23, 100761. | 1.9 | 26 |
| 61 | Recent progress in all-inorganic metal halide nanostructured perovskites: Materials design, optical properties, and application. <i>Frontiers of Physics</i> , 2021, 16, 1. | 2.4 | 26 |
| 62 | Multiple Au cores in CeO2 hollow spheres for the superior catalytic reduction of p-nitrophenol. <i>Chinese Journal of Catalysis</i> , 2015, 36, 261-267. | 6.9 | 24 |
| 63 | Pt ₃ Co@Pt Core@shell Nanoparticles as Efficient Oxygen Reduction Electrocatalysts in Direct Methanol Fuel Cell. <i>ChemCatChem</i> , 2021, 13, 1587-1594. | 1.8 | 23 |
| 64 | Bimetallic Metal-Organic Framework Derived Metal-Carbon Hybrid for Efficient Reversible Oxygen Electrocatalysis. <i>Frontiers in Chemistry</i> , 2019, 7, 747. | 1.8 | 22 |
| 65 | Understanding the Ion-Sorption Dynamics in Functionalized Porous Carbons for Enhanced Capacitive Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2773-2782. | 4.0 | 17 |
| 66 | Enhanced Degradation of Sulfamethoxazole (SMX) in Toilet Wastewater by Photo-Fenton Reactive Membrane Filtration. <i>Nanomaterials</i> , 2020, 10, 180. | 1.9 | 16 |
| 67 | Nanostructured hexaazatrinaphthalene based polymers for advanced energy conversion and storage. <i>Chemical Engineering Journal</i> , 2022, 427, 130995. | 6.6 | 16 |
| 68 | Interfacial Engineering of 3D Hollow Mo-Based Carbide/Nitride Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50524-50530. | 4.0 | 16 |
| 69 | Facile and surfactant-free synthesis of SnO2-graphene hybrids as high performance anode for lithium-ion batteries. <i>Ionics</i> , 2015, 21, 987-994. | 1.2 | 14 |
| 70 | Electron affinity regulation on ultrathin manganese oxide nanosheets toward ultra-stable pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23257-23264. | 5.2 | 14 |
| 71 | Carbon-supported layered double hydroxide nanodots for efficient oxygen evolution: Active site identification and activity enhancement. <i>Nano Research</i> , 2021, 14, 3329-3336. | 5.8 | 14 |
| 72 | The biomimetic engineering of metal-organic frameworks with single-chiral-site precision for asymmetric hydrogenation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6463-6469. | 5.2 | 14 |

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|----|--|-----|-----------|
| 73 | Cation Tuning Induced d-Band Center Modulation on Co-Based Spinel Oxide for Oxygen Reduction/Evolution Reaction. <i>Angewandte Chemie</i> , 2022, 134, . | 1.6 | 14 |
| 74 | Metal-organic framework assembly derived hierarchically ordered porous carbon for oxygen reduction in both alkaline and acidic media. <i>Chemical Engineering Journal</i> , 2022, 430, 132762. | 6.6 | 13 |
| 75 | Metal-Organic Frameworks for Electrocatalysis: Beyond Their Derivatives. <i>Small Science</i> , 2021, 1, . | 5.8 | 13 |
| 76 | Activating Lattice Oxygen in Layered Lithium Oxides through Cation Vacancies for Enhanced Urea Electrolysis. <i>Angewandte Chemie</i> , 2022, 134, . | 1.6 | 10 |
| 77 | Study on the Oxidation Enhancement of Formic Acid and Formate Blended Fuel Solution on Pt Catalyst. <i>Fuel Cells</i> , 2013, 13, 167-172. | 1.5 | 9 |
| 78 | Discarded antibiotic mycelial residues derived nitrogen-doped porous carbon for electrochemical energy storage and simultaneous reduction of antibiotic resistance genes(ARGs). <i>Environmental Research</i> , 2021, 192, 110261. | 3.7 | 8 |
| 79 | Correlation and Improvement of Bimetallic Electronegativity on Metal-Organic Frameworks for Electrocatalytic Water Oxidation. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100055. | 2.8 | 8 |
| 80 | An efficient combination strategy for high-performance asymmetric-electrolyte metal-air batteries. <i>Matter</i> , 2021, 4, 1090-1092. | 5.0 | 5 |
| 81 | Real-Time Carbon Monoxide Detection using a Rotating Gold Ring Electrode: A Feasibility Study. <i>ChemElectroChem</i> , 2020, 7, 4417-4422. | 1.7 | 4 |
| 82 | Synthesis Metal-free Nitrogen-doped Porous Carbon by Removing Al from Al-MOFs as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>International Journal of Electrochemical Science</i> , 2019, 14, 3024-3034. | 0.5 | 2 |
| 83 | A Wireless Textile Based Sensor System for Self-Powered Personalized Health Care. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 2 |