

# Shenlong Zhao

## List of Publications by Year in descending order

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83  
papers

11,871  
citations

44069

48  
h-index

58581

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, .	39.5	1,979
2	Ultrathin platinum nanowires grown on single-layered nickel hydroxide with high hydrogen evolution activity. <i>Nature Communications</i> , 2015, 6, 6430.	12.8	848
3	Structural transformation of highly active metal-organic framework electrocatalysts during the oxygen evolution reaction. <i>Nature Energy</i> , 2020, 5, 881-890.	39.5	647
4	Carbonized Nanoscale Metal-Organic Frameworks as High Performance Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Nano</i> , 2014, 8, 12660-12668.	14.6	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.	21.0	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.	30.8	412
7	Co <sub>3</sub> O <sub>4</sub> Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO <sub>2</sub> . <i>Advanced Materials</i> , 2016, 28, 6485-6490.	21.0	395
8	Metal-Organic Frameworks Encapsulating Active Nanoparticles as Emerging Composites for Catalysis: Recent Progress and Perspectives. <i>Advanced Materials</i> , 2018, 30, e1800702.	21.0	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.	13.7	336
10	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. <i>Matter</i> , 2020, 2, 896-907.	10.0	310
11	Carbon-Based Metal-Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. <i>Advanced Materials</i> , 2019, 31, e1801526.	21.0	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.	21.0	247
13	Microwave-Assisted Rapid Synthesis of Graphene-Supported Single Atomic Metals. <i>Advanced Materials</i> , 2018, 30, e1802146.	21.0	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.	30.8	225
15	A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4793-4799.	13.8	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.	10.3	209
17	Photo-Rechargeable Fabrics as Sustainable and Robust Power Sources for Wearable Bioelectronics. <i>Matter</i> , 2020, 2, 1260-1269.	10.0	204
18	Recent Progress of Carbon-Supported Single-Atom Catalysts for Energy Conversion and Storage. <i>Matter</i> , 2020, 3, 1442-1476.	10.0	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.	10.3	183
20	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <i>Matter</i> , 2020, 3, 2124-2137.	10.0	177
21	A linear-to-rotary hybrid nanogenerator for high-performance wearable biomechanical energy harvesting. <i>Nano Energy</i> , 2020, 67, 104235.	16.0	172
22	Reordering d Orbital Energies of Single-Atom Site Catalysts for CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12711-12716.	13.8	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, .	13.8	156
24	Promoting Energy Efficiency via a Self-Adaptive Evaporative Cooling Hydrogel. <i>Advanced Materials</i> , 2020, 32, e1907307.	21.0	151
25	Insight into Structural Evolution, Active Sites, and Stability of Heterogeneous Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	140
26	Cation-Vacancy-Enriched Nickel Phosphide for Efficient Electrosynthesis of Hydrogen Peroxides. <i>Advanced Materials</i> , 2022, 34, e2106541.	21.0	123
27	Activating Lattice Oxygen in Layered Lithium Oxides through Cation Vacancies for Enhanced Urea Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	116
28	An approaching-theoretical-capacity anode material for aqueous battery: Hollow hexagonal prism Bi <sub>2</sub> O <sub>3</sub> assembled by nanoparticles. <i>Energy Storage Materials</i> , 2020, 28, 82-90.	18.0	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.	30.8	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.	13.7	103
31	Metal-Organic Frameworks for Electrocatalysis: Beyond Their Derivatives. <i>Small Science</i> , 2021, 1, 2100015.	9.9	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.	10.1	91
33	Metallic Cobalt-Carbon Composite as Recyclable and Robust Magnetic Photocatalyst for Efficient CO <sub>2</sub> Reduction. <i>Small</i> , 2018, 14, e1800762.	10.0	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.	10.3	82
35	Multistaged discharge constructing heterostructure with enhanced solid-solution behavior for long-life lithium-oxygen batteries. <i>Nature Communications</i> , 2019, 10, 5810.	12.8	80
36	Nanostructured photoelectrochemical biosensor for highly sensitive detection of organophosphorous pesticides. <i>Biosensors and Bioelectronics</i> , 2015, 64, 1-5.	10.1	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.	10.3	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.	7.8	71
39	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , 2020, 5, 3560-3568.	17.4	70
40	Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO <sub>2</sub> cycloaddition. <i>Science Advances</i> , 2020, 6, eaaz4824.	10.3	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.	14.9	68
42	Carbon Nanomaterials for Energy and Biorelated Catalysis: Recent Advances and Looking Forward. <i>ACS Central Science</i> , 2019, 5, 389-408.	11.3	67
43	Single-metal-atom catalysts: An emerging platform for electrocatalytic oxygen reduction. <i>Chemical Engineering Journal</i> , 2021, 406, 127135.	12.7	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.	19.5	65
45	Optical Activity of Chiral Metal Nanoclusters. <i>Accounts of Materials Research</i> , 2021, 2, 21-35.	11.7	62
46	Rechargeable zinc-air batteries with neutral electrolytes: Recent advances, challenges, and prospects. <i>EnergyChem</i> , 2021, 3, 100055.	19.1	59
47	A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. <i>Angewandte Chemie</i> , 2020, 132, 4823-4829.	2.0	57
48	Cu <sub>2</sub> O clusters grown on TiO <sub>2</sub> nanoplates as efficient photocatalysts for hydrogen generation. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 488-493.	6.0	54
49	Regulating electron transfer over asymmetric low-spin Co(II) for highly selective electrocatalysis. <i>Chem Catalysis</i> , 2022, 2, 372-385.	6.1	50
50	Octahedral Coordinated Trivalent Cobalt Enriched Multimetal Oxygen Evolution Catalysts. <i>Advanced Energy Materials</i> , 2020, 10, 2002593.	19.5	47
51	Structure regulated catalytic performance of gold nanocluster-MOF nanocomposites. <i>Nano Research</i> , 2020, 13, 1928-1932.	10.4	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.	30.8	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.	11.2	43
54	Ni <sub>5</sub> P <sub>4</sub> -NiP <sub>2</sub> nanosheet matrix enhances electron-transfer kinetics for hydrogen recovery in microbial electrolysis cells. <i>Applied Energy</i> , 2018, 209, 56-64.	10.1	39

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55	Insight into Structural Evolution, Active Sites, and Stability of Heterogeneous Electrocatalysts. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	38
56	Research on Carbon-Based Electrode Materials for Supercapacitors. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2017, 33, 130-148.	4.9	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.	5.6	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.	18.0	28
59	Ultraporous Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. <i>ACS Central Science</i> , 2021, 7, 671-680.	11.3	27
60	Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. <i>IScience</i> , 2020, 23, 100761.	4.1	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.	5.0	26
62	Multiple Au cores in CeO <sub>2</sub> hollow spheres for the superior catalytic reduction of p-nitrophenol. <i>Chinese Journal of Catalysis</i> , 2015, 36, 261-267.	14.0	24
63	Pt <sub>3</sub> Co@Pt Core@shell Nanoparticles as Efficient Oxygen Reduction Electrocatalysts in Direct Methanol Fuel Cell. <i>ChemCatChem</i> , 2021, 13, 1587-1594.	3.7	23
64	Bimetallic Metal-Organic Framework Derived Metal-Carbon Hybrid for Efficient Reversible Oxygen Electrocatalysis. <i>Frontiers in Chemistry</i> , 2019, 7, 747.	3.6	22
65	Understanding the Ion-Sorption Dynamics in Functionalized Porous Carbons for Enhanced Capacitive Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 2773-2782.	8.0	17
66	Enhanced Degradation of Sulfamethoxazole (SMX) in Toilet Wastewater by Photo-Fenton Reactive Membrane Filtration. <i>Nanomaterials</i> , 2020, 10, 180.	4.1	16
67	Nanostructured hexaazatrinaphthalene based polymers for advanced energy conversion and storage. <i>Chemical Engineering Journal</i> , 2022, 427, 130995.	12.7	16
68	Interfacial Engineering of 3D Hollow Mo-Based Carbide/Nitride Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50524-50530.	8.0	16
69	Facile and surfactant-free synthesis of SnO <sub>2</sub> -graphene hybrids as high performance anode for lithium-ion batteries. <i>Ionics</i> , 2015, 21, 987-994.	2.4	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.	10.3	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.	10.4	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.	10.3	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, .	2.0	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.	12.7	13
75	Metal-Organic Frameworks for Electrocatalysis: Beyond Their Derivatives. <i>Small Science</i> , 2021, 1, .	9.9	13
76	Activating Lattice Oxygen in Layered Lithium Oxides through Cation Vacancies for Enhanced Urea Electrolysis. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	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.	2.4	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.	7.5	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.	5.8	8
80	An efficient combination strategy for high-performance asymmetric-electrolyte metal-air batteries. <i>Matter</i> , 2021, 4, 1090-1092.	10.0	5
81	Real-Time Carbon Monoxide Detection using a Rotating Gold Ring Electrode: A Feasibility Study. <i>ChemElectroChem</i> , 2020, 7, 4417-4422.	3.4	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.	1.3	2
83	A Wireless Textile Based Sensor System for Self-Powered Personalized Health Care. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2