

Shenlong Zhao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

7,597
citations

35
h-index

83
g-index

83
ext. papers

9,588
ext. citations

15.2
avg, IF

6.29
L-index

#	Paper	IF	Citations
79	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , 2016 , 1,	62.3	1444
78	Ultrathin platinum nanowires grown on single-layered nickel hydroxide with high hydrogen evolution activity. <i>Nature Communications</i> , 2015 , 6, 6430	17.4	719
77	Carbonized nanoscale metal-organic frameworks as high performance electrocatalyst for oxygen reduction reaction. <i>ACS Nano</i> , 2014 , 8, 12660-8	16.7	456
76	Three-dimensional graphene/metal oxide nanoparticle hybrids for high-performance capacitive deionization of saline water. <i>Advanced Materials</i> , 2013 , 25, 6270-6	24	437
75	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	35.4	342
74	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, 6485-90	24	296
73	Structural transformation of highly active metal-organic framework electrocatalysts during the oxygen evolution reaction. <i>Nature Energy</i> , 2020 , 5, 881-890	62.3	280
72	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	16.4	274
71	Metal-Organic Frameworks Encapsulating Active Nanoparticles as Emerging Composites for Catalysis: Recent Progress and Perspectives. <i>Advanced Materials</i> , 2018 , 30, e1800702	24	248
70	Carbon-Based Metal-Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. <i>Advanced Materials</i> , 2019 , 31, e1801526	24	184
69	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. <i>Matter</i> , 2020 , 2, 896-907	12.7	183
68	Microwave-Assisted Rapid Synthesis of Graphene-Supported Single Atomic Metals. <i>Advanced Materials</i> , 2018 , 30, e1802146	24	172
67	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	13	165
66	Carbon-Based Metal-Free Catalysts for Electrocatalytic Reduction of Nitrogen for Synthesis of Ammonia at Ambient Conditions. <i>Advanced Materials</i> , 2019 , 31, e1805367	24	160
65	Three-dimensional graphene/Pt nanoparticle composites as freestanding anode for enhancing performance of microbial fuel cells. <i>Science Advances</i> , 2015 , 1, e1500372	14.3	157
64	Photo-Rechargeable Fabrics as Sustainable and Robust Power Sources for Wearable Bioelectronics. <i>Matter</i> , 2020 , 2, 1260-1269	12.7	150
63	A linear-to-rotary hybrid nanogenerator for high-performance wearable biomechanical energy harvesting. <i>Nano Energy</i> , 2020 , 67, 104235	17.1	140

62	Recent Progress of Carbon-Supported Single-Atom Catalysts for Energy Conversion and Storage. <i>Matter</i> , 2020 , 3, 1442-1476	12.7	103
61	A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4793-4799	16.4	103
60	Reordering d Orbital Energies of Single-Site Catalysts for CO Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12711-12716	16.4	100
59	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <i>Matter</i> , 2020 , 3, 2124-2137	12.7	86
58	Electrocatalytic hydrogen evolution under neutral pH conditions: current understandings, recent advances, and future prospects. <i>Energy and Environmental Science</i> , 2020 , 13, 3185-3206	35.4	85
57	Promoting Energy Efficiency via a Self-Adaptive Evaporative Cooling Hydrogel. <i>Advanced Materials</i> , 2020 , 32, e1907307	24	79
56	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	19.4	77
55	Nanostructured photoelectrochemical biosensor for highly sensitive detection of organophosphorous pesticides. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 1-5	11.8	66
54	Efficient water oxidation under visible light by tuning surface defects on ceria nanorods. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20465-20470	13	65
53	Porous Fe-N _x /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	8.9	62
52	Metallic Cobalt-Carbon Composite as Recyclable and Robust Magnetic Photocatalyst for Efficient CO Reduction. <i>Small</i> , 2018 , 14, e1800762	11	61
51	Multistaged discharge constructing heterostructure with enhanced solid-solution behavior for long-life lithium-oxygen batteries. <i>Nature Communications</i> , 2019 , 10, 5810	17.4	59
50	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	11.8	53
49	Carbon Nanomaterials for Energy and Biorelated Catalysis: Recent Advances and Looking Forward. <i>ACS Central Science</i> , 2019 , 5, 389-408	16.8	50
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	6.8	48
47	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	21.8	44
46	Single-metal-atom catalysts: An emerging platform for electrocatalytic oxygen reduction. <i>Chemical Engineering Journal</i> , 2021 , 406, 127135	14.7	39
45	Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO cycloaddition. <i>Science Advances</i> , 2020 , 6, eaaz4824	14.3	38

44	A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. <i>Angewandte Chemie</i> , 2020 , 132, 4823-4829	3.6	30
43	Metal-Organic Frameworks for Electrocatalysis: Beyond Their Derivatives. <i>Small Science</i> , 2100015		30
42	Make it stereoscopic: interfacial design for full-temperature adaptive flexible zinc-air batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 4926-4935	35.4	29
41	Ni ₅ P ₄ -NiP ₂ nanosheet matrix enhances electron-transfer kinetics for hydrogen recovery in microbial electrolysis cells. <i>Applied Energy</i> , 2018 , 209, 56-64	10.7	29
40	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , 2020 , 5, 3560-3568	20.1	27
39	Re-Looking into the Active Moieties of Metal X-ides (X = Phosph-, Sulf-, Nitr-, and Carb-) Toward Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2102918	15.6	24
38	Cation-Tuning Induced d-Band Center Modulation on Co-based Spinel Oxide for Rechargeable Zn-Air Batteries.. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	23
37	Multiple Au cores in CeO ₂ hollow spheres for the superior catalytic reduction of p-nitrophenol. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 261-267	11.3	22
36	Octahedral Coordinated Trivalent Cobalt Enriched Multimetal Oxygen-Evolution Catalysts. <i>Advanced Energy Materials</i> , 2020 , 10, 2002593	21.8	21
35	Optical Activity of Chiral Metal Nanoclusters. <i>Accounts of Materials Research</i> , 2021 , 2, 21-35	7.5	21
34	Research on Carbon-Based Electrode Materials for Supercapacitors. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2017 , 33, 130-148	3.8	20
33	Structure regulated catalytic performance of gold nanocluster-MOF nanocomposites. <i>Nano Research</i> , 2020 , 13, 1928-1932	10	20
32	Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. <i>iScience</i> , 2020 , 23, 100761	6.1	19
31	Insight into Structural Evolution, Active Site and Stability of Heterogeneous Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	19
30	Cation vacancy enriched nickel phosphide for efficient electrosynthesis of hydrogen peroxides.. <i>Advanced Materials</i> , 2022 , e2106541	24	19
29	Rechargeable zinc-air batteries with neutral electrolytes: Recent advances, challenges, and prospects. <i>EnergyChem</i> , 2021 , 3, 100055	36.9	16
28	Facile and surfactant-free synthesis of SnO ₂ -graphene hybrids as high performance anode for lithium-ion batteries. <i>Ionics</i> , 2015 , 21, 987-994	2.7	14
27	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	35.4	14

26	Recent advances in electrocatalytic chloride oxidation for chlorine gas production. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18974-18993	13	13
25	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	19.4	12
24	Recent progress in all-inorganic metal halide nanostructured perovskites: Materials design, optical properties, and application. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	11
23	Bimetallic Metal-Organic Framework Derived Metal-Carbon Hybrid for Efficient Reversible Oxygen Electrocatalysis. <i>Frontiers in Chemistry</i> , 2019 , 7, 747	5	10
22	Understanding the Ion-Sorption Dynamics in Functionalized Porous Carbons for Enhanced Capacitive Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2773-2782	9.5	10
21	Pt ₃ Co@Pt Core@shell Nanoparticles as Efficient Oxygen Reduction Electrocatalysts in Direct Methanol Fuel Cell. <i>ChemCatChem</i> , 2021 , 13, 1587-1594	5.2	10
20	Study on the Oxidation Enhancement of Formic Acid and Formate Blended Fuel Solution on Pt Catalyst. <i>Fuel Cells</i> , 2013 , 13, 167-172	2.9	9
19	Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	9
18	Atomically dispersed S-Fe-N ₄ for fast kinetics sodium-sulfur batteries via a dual function mechanism. <i>Cell Reports Physical Science</i> , 2021 , 2, 100531	6.1	9
17	Enhanced Degradation of Sulfamethoxazole (SMX) in Toilet Wastewater by Photo-Fenton Reactive Membrane Filtration. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
16	Regulating electron transfer over asymmetric low-spin Co(II) for highly selective electrocatalysis. <i>Chem Catalysis</i> , 2022 ,		8
15	Ultraporous Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. <i>ACS Central Science</i> , 2021 , 7, 671-680	16.8	7
14	Electron affinity regulation on ultrathin manganese oxide nanosheets toward ultra-stable pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23257-23264	13	6
13	Insight into Structural Evolution, Active Site and Stability of Heterogeneous Electrocatalysts. <i>Angewandte Chemie</i> ,	3.6	6
12	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	5
11	Interfacial Engineering of 3D Hollow Mo-Based Carbide/Nitride Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50524-50530	9.5	4
10	The biomimetic engineering of metal-organic frameworks with single-chiral-site precision for asymmetric hydrogenation. <i>Journal of Materials Chemistry A</i> ,	13	4
9	Nanostructured hexaazatrinaphthalene based polymers for advanced energy conversion and storage. <i>Chemical Engineering Journal</i> , 2022 , 427, 130995	14.7	4

8	Metal-Organic Frameworks for Electrocatalysis: Beyond Their Derivatives. <i>Small Science</i> , 2021 , 1, 2170030		3
7	Geometrically Deformed Iron-Based Single-Atom Catalysts for High-Performance Acidic Proton Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 5397-5406	13.1	3
6	A Wireless Textile Based Sensor System for Self-Powered Personalized Health Care. <i>SSRN Electronic Journal</i> ,	1	2
5	An efficient combination strategy for high-performance asymmetric-electrolyte metal-air batteries. <i>Matter</i> , 2021 , 4, 1090-1092	12.7	2
4	Metal-organic framework assembly derived hierarchically ordered porous carbon for oxygen reduction in both alkaline and acidic media. <i>Chemical Engineering Journal</i> , 2021 , 430, 132762	14.7	2
3	Real-Time Carbon Monoxide Detection using a Rotating Gold Ring Electrode: A Feasibility Study. <i>ChemElectroChem</i> , 2020 , 7, 4417-4422	4.3	1
2	Correlation and Improvement of Bimetallic Electronegativity on Metal-Organic Frameworks for Electrocatalytic Water Oxidation. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100055	1.6	1
1	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	7.9	1