

# Zechao Zhuang

## 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.

39  
papers

2,191  
citations

24  
h-index

44  
g-index

44  
ext. papers

3,261  
ext. citations

12.3  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
39	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602914	24	424
38	MoB/g-C N Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 496-500	16.4	228
37	Single-atom catalysis enables long-life, high-energy lithium-sulfur batteries. <i>Nano Research</i> , <b>2020</b> , 13, 1856-1866	10	161
36	The Marriage of the FeN Moiety and MXene Boosts Oxygen Reduction Catalysis: Fe 3d Electron Delocalization Matters. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803220	24	157
35	Metal-organic framework derived carbon-confined NiP nanocrystals supported on graphene for an efficient oxygen evolution reaction. <i>Chemical Communications</i> , <b>2017</b> , 53, 8372-8375	5.8	147
34	Monodisperse and homogeneous SiO <sub>2</sub> /C microspheres: A promising high-capacity and durable anode material for lithium-ion batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 13, 112-118	19.4	136
33	Oxygen Vacancy-Determined Highly Efficient Oxygen Reduction in NiCoO/Hollow Carbon Spheres. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 16410-16417	9.5	88
32	Robust three-dimensional graphene skeleton encapsulated Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F nanoparticles as a high-rate and long-life cathode of sodium-ion batteries. <i>Nano Energy</i> , <b>2017</b> , 41, 452-459	17.1	78
31	A facile and green preparation of reduced graphene oxide using Eucalyptus leaf extract. <i>Applied Surface Science</i> , <b>2017</b> , 422, 469-474	6.7	55
30	Porous and Low-Crystalline Manganese Silicate Hollow Spheres Wired by Graphene Oxide for High-Performance Lithium and Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24584-24590	9.5	53
29	Monodisperse Carbon Sphere-Constructed Pomegranate-Like Structures for High-Volumetric-Capacitance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 4011-4016	9.5	53
28	MoB/g-C <sub>3</sub> N <sub>4</sub> Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 505-509	3.6	48
27	One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , <b>2021</b> , 12, 709	17.4	42
26	MXene Surface Terminations Enable Strong Metal-Support Interactions for Efficient Methanol Oxidation on Palladium. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2400-2406	9.5	38
25	Effects of cyclodextrin on the morphology and reactivity of iron-based nanoparticles using Eucalyptus leaf extract. <i>Industrial Crops and Products</i> , <b>2015</b> , 69, 308-313	5.9	36
24	Mass Production of Monodisperse Carbon Microspheres with Size-Dependent Supercapacitor Performance via Aqueous Self-Catalyzed Polymerization. <i>ChemPlusChem</i> , <b>2017</b> , 82, 872-878	2.8	35
23	Biosynthetic graphene enhanced extracellular electron transfer for high performance anode in microbial fuel cell. <i>Chemosphere</i> , <b>2019</b> , 232, 396-402	8.4	35

22	Facet-Selective Deposition of FeO on $\beta$ -MoO Nanobelts for Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39425-39431	9.5	33
21	Functional chitosan-stabilized nanoscale zero-valent iron used to remove acid fuchsine with the assistance of ultrasound. <i>Carbohydrate Polymers</i> , <b>2016</b> , 136, 1085-90	10.3	29
20	Recent Advances in Nanowire-Biosystem Interfaces: From Chemical Conversion, Energy Production to Electrophysiology. <i>CheM</i> , <b>2018</b> , 4, 1538-1559	16.2	29
19	Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1016-1028	35.4	28
18	The Holy Grail in Platinum-Free Electrocatalytic Hydrogen Evolution: Molybdenum-Based Catalysts and Recent Advances. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3570-3589	4.3	27
17	Simple construction of ruthenium single atoms on electrospun nanofibers for superior alkaline hydrogen evolution: A dynamic transformation from clusters to single atoms. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123655	14.7	27
16	Bringing catalytic order out of chaos with nitrogen-doped ordered mesoporous carbon. <i>Matter</i> , <b>2021</b> , 4, 3161-3194	12.7	26
15	Sisyphus effects in hydrogen electrochemistry on metal silicides enabled by silicene subunit edge. <i>Science Bulletin</i> , <b>2019</b> , 64, 617-624	10.6	24
14	Biosynthesis of Pd/Au alloys on carbon fiber paper: Towards an eco-friendly solution for catalysts fabrication. <i>Journal of Power Sources</i> , <b>2015</b> , 291, 132-137	8.9	22
13	Single-atom catalysts for electrochemical clean energy conversion: recent progress and perspectives. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 996-1011	5.8	22
12	MOF Encapsulating N-Heterocyclic Carbene-Ligated Copper Single-Atom Site Catalyst towards Efficient Methane Electrosynthesis. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	18
11	Compact Sn/SnO <sub>2</sub> microspheres with gradient composition for high volumetric lithium storage. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 376-381	19.4	14
10	A small change in the local atomic environment for a big improvement in single-atom catalysis. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 4184-4192	13	14
9	Strain Relaxation in Metal Alloy Catalysts Steers the Product Selectivity of Electrocatalytic CO Reduction.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	11
8	Isolation of Metalloid Boron Atoms in Intermetallic Carbide Boosts the Catalytic Selectivity for Electrocatalytic N <sub>2</sub> Fixation. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102138	21.8	10
7	Unraveling the electronegativity-dominated intermediate adsorption on high-entropy alloy electrocatalysts.. <i>Nature Communications</i> , <b>2022</b> , 13, 2662	17.4	10
6	Efficient reversible CO/CO <sub>2</sub> conversion in solid oxide cells with a phase-transformed fuel electrode. <i>Science China Materials</i> , <b>2021</b> , 64, 1114-1126	7.1	8
5	Ultrathin Metal Silicate Hydroxide Nanosheets with Moderate Metal/Oxygen Covalency Enables Efficient Oxygen Evolution. <i>Energy and Environmental Materials</i> ,	13	6

4	Stabilizing effects of atomic Ti doping on high-voltage high-nickel layered oxide cathode for lithium-ion rechargeable batteries. <i>Nano Research</i> ,1	10	4
3	Improving stability of MXenes. <i>Nano Research</i> ,	10	4
2	Hydrogen-assisted scalable preparation of ultrathin Pt shells onto surfactant-free and uniform Pd nanoparticles for highly efficient oxygen reduction reaction in practical fuel cells. <i>Nano Research</i> ,1	10	2
1	Dislocation-strained MoS <sub>2</sub> nanosheets for high-efficiency hydrogen evolution reaction. <i>Nano Research</i> ,1	10	2