

Zechao Zhuang

List of Publications by Year in Descending Order

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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 | Strain Relaxation in Metal Alloy Catalysts Steers the Product Selectivity of Electrocatalytic CO Reduction.. <i>ACS Nano</i> , 2022 , | 16.7 | 11 |
| 38 | Unraveling the electronegativity-dominated intermediate adsorption on high-entropy alloy electrocatalysts.. <i>Nature Communications</i> , 2022 , 13, 2662 | 17.4 | 10 |
| 37 | MOF Encapsulating N-Heterocyclic Carbene-Ligated Copper Single-Atom Site Catalyst towards Efficient Methane Electrosynthesis. <i>Angewandte Chemie - International Edition</i> , 2021 , | 16.4 | 18 |
| 36 | Bringing catalytic order out of chaos with nitrogen-doped ordered mesoporous carbon. <i>Matter</i> , 2021 , 4, 3161-3194 | 12.7 | 26 |
| 35 | Efficient reversible CO/CO ₂ conversion in solid oxide cells with a phase-transformed fuel electrode. <i>Science China Materials</i> , 2021 , 64, 1114-1126 | 7.1 | 8 |
| 34 | One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2021 , 12, 709 | 17.4 | 42 |
| 33 | A small change in the local atomic environment for a big improvement in single-atom catalysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4184-4192 | 13 | 14 |
| 32 | Isolation of Metalloid Boron Atoms in Intermetallic Carbide Boosts the Catalytic Selectivity for Electrocatalytic N ₂ Fixation. <i>Advanced Energy Materials</i> , 2021 , 11, 2102138 | 21.8 | 10 |
| 31 | Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. <i>Energy and Environmental Science</i> , 2021 , 14, 1016-1028 | 35.4 | 28 |
| 30 | Single-atom catalysis enables long-life, high-energy lithium-sulfur batteries. <i>Nano Research</i> , 2020 , 13, 1856-1866 | 10 | 161 |
| 29 | Single-atom catalysts for electrochemical clean energy conversion: recent progress and perspectives. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 996-1011 | 5.8 | 22 |
| 28 | MXene Surface Terminations Enable Strong Metal-Support Interactions for Efficient Methanol Oxidation on Palladium. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2400-2406 | 9.5 | 38 |
| 27 | 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> , 2020 , 392, 123655 | 14.7 | 27 |
| 26 | Compact Sn/SnO ₂ microspheres with gradient composition for high volumetric lithium storage. <i>Energy Storage Materials</i> , 2020 , 25, 376-381 | 19.4 | 14 |
| 25 | Biosynthetic graphene enhanced extracellular electron transfer for high performance anode in microbial fuel cell. <i>Chemosphere</i> , 2019 , 232, 396-402 | 8.4 | 35 |
| 24 | The Holy Grail in Platinum-Free Electrocatalytic Hydrogen Evolution: Molybdenum-Based Catalysts and Recent Advances. <i>ChemElectroChem</i> , 2019 , 6, 3570-3589 | 4.3 | 27 |
| 23 | Sisyphus effects in hydrogen electrochemistry on metal silicides enabled by silicene subunit edge. <i>Science Bulletin</i> , 2019 , 64, 617-624 | 10.6 | 24 |

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| 22 | Monodisperse Carbon Sphere-Constructed Pomegranate-Like Structures for High-Volumetric-Capacitance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4011-4018 | 9.5 | 53 |
| 21 | Oxygen Vacancy-Determined Highly Efficient Oxygen Reduction in NiCoO/Hollow Carbon Spheres. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16410-16417 | 9.5 | 88 |
| 20 | Monodisperse and homogeneous SiO ₂ /C microspheres: A promising high-capacity and durable anode material for lithium-ion batteries. <i>Energy Storage Materials</i> , 2018 , 13, 112-118 | 19.4 | 136 |
| 19 | Recent Advances in Nanowire-Biosystem Interfaces: From Chemical Conversion, Energy Production to Electrophysiology. <i>CheM</i> , 2018 , 4, 1538-1559 | 16.2 | 29 |
| 18 | MoB/g-C ₃ N ₄ Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie</i> , 2018 , 130, 505-509 | 3.6 | 48 |
| 17 | MoB/g-C N Interface Materials as a Schottky Catalyst to Boost Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 496-500 | 16.4 | 228 |
| 16 | The Marriage of the FeN Moiety and MXene Boosts Oxygen Reduction Catalysis: Fe 3d Electron Delocalization Matters. <i>Advanced Materials</i> , 2018 , 30, e1803220 | 24 | 157 |
| 15 | Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , 2017 , 29, 1602914 | 24 | 424 |
| 14 | Mass Production of Monodisperse Carbon Microspheres with Size-Dependent Supercapacitor Performance via Aqueous Self-Catalyzed Polymerization. <i>ChemPlusChem</i> , 2017 , 82, 872-878 | 2.8 | 35 |
| 13 | A facile and green preparation of reduced graphene oxide using Eucalyptus leaf extract. <i>Applied Surface Science</i> , 2017 , 422, 469-474 | 6.7 | 55 |
| 12 | Facet-Selective Deposition of FeO on β -MoO ₃ Nanobelts for Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39425-39431 | 9.5 | 33 |
| 11 | Robust three-dimensional graphene skeleton encapsulated Na ₃ V ₂ O ₂ (PO ₄) ₂ F nanoparticles as a high-rate and long-life cathode of sodium-ion batteries. <i>Nano Energy</i> , 2017 , 41, 452-459 | 17.1 | 78 |
| 10 | Metal-organic framework derived carbon-confined NiP nanocrystals supported on graphene for an efficient oxygen evolution reaction. <i>Chemical Communications</i> , 2017 , 53, 8372-8375 | 5.8 | 147 |
| 9 | Porous and Low-Crystalline Manganese Silicate Hollow Spheres Wired by Graphene Oxide for High-Performance Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24584-24590 | 9.5 | 53 |
| 8 | Functional chitosan-stabilized nanoscale zero-valent iron used to remove acid fuchsin with the assistance of ultrasound. <i>Carbohydrate Polymers</i> , 2016 , 136, 1085-90 | 10.3 | 29 |
| 7 | Effects of cyclodextrin on the morphology and reactivity of iron-based nanoparticles using Eucalyptus leaf extract. <i>Industrial Crops and Products</i> , 2015 , 69, 308-313 | 5.9 | 36 |
| 6 | Biosynthesis of Pd/Au alloys on carbon fiber paper: Towards an eco-friendly solution for catalysts fabrication. <i>Journal of Power Sources</i> , 2015 , 291, 132-137 | 8.9 | 22 |
| 5 | Stabilizing effects of atomic Ti doping on high-voltage high-nickel layered oxide cathode for lithium-ion rechargeable batteries. <i>Nano Research</i> , 2015 , 8, 1001-1008 | 10 | 4 |

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| 4 | Ultrathin Metal Silicate Hydroxide Nanosheets with Moderate Metal-Oxygen Covalency Enables Efficient Oxygen Evolution. <i>Energy and Environmental Materials</i> , | 13 | 6 |
| 3 | 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 |
| 2 | Dislocation-strained MoS ₂ nanosheets for high-efficiency hydrogen evolution reaction. <i>Nano Research</i> ,1 | 10 | 2 |
| 1 | Improving stability of MXenes. <i>Nano Research</i> , | 10 | 4 |