

# Yingwen Cheng

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

9,126  
citations

81900

39  
h-index

98798

67  
g-index

70  
all docs

70  
docs citations

70  
times ranked

12085  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | High Energy and Stable Subfreezing Aqueous Zn-MnO <sub>2</sub> Batteries with Selective and Pseudocapacitive Zn-Ion Insertion in MnO <sub>2</sub> . <i>Advanced Materials</i> , 2022, 34, e2201510.                                    | 21.0 | 36        |
| 2  | One-Step Synthesis of Na-Sn Alloy with Internal 3D Na <sub>15</sub> Sn <sub>4</sub> Support for Fast and Stable Na Metal Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 20-26.  | 5.1  | 6         |
| 3  | Redox catalysis-promoted fast iodine kinetics for polyiodide-free Na-I <sub>2</sub> electrochemistry. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11325-11331.   | 10.3 | 6         |
| 4  | Sodiated Na <sub>x</sub> SnSb nanoparticles embedded in N-doped graphene sponges direct uniform Na nucleation and smooth plating for high efficiency Na metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6123-6130. | 10.3 | 9         |
| 5  | Synergistics of Fe <sub>3</sub> C and Fe on Mesoporous Fe-N-C Sulfur Host for Nearly Complete and Fast Lithium Polysulfide Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 17791-17799.                          | 8.0  | 9         |
| 6  | Modulating MnO <sub>2</sub> Interface with Flexible and Self-Adhering Alkylphosphonic Layers for High-Performance Zn-MnO <sub>2</sub> Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23724-23731.                | 8.0  | 13        |
| 7  | Carbon Free and Noble Metal Free Ni <sub>2</sub> Mo <sub>6</sub> S <sub>8</sub> Electrocatalyst for Selective Electrosynthesis of H <sub>2</sub> O <sub>2</sub> . <i>Advanced Functional Materials</i> , 2021, 31, 2104716.            | 14.9 | 44        |
| 8  | Synergistic Multisites Fe <sub>2</sub> Mo <sub>6</sub> S <sub>8</sub> Electrocatalysts for Ambient Nitrogen Conversion to Ammonia. <i>ACS Nano</i> , 2021, 15, 16887-16895.  | 14.6 | 27        |
| 9  | High rate and cycling stable Li metal anodes enabled with aluminum-zinc oxides modified copper foam. <i>Journal of Energy Chemistry</i> , 2020, 41, 87-92.   | 12.9 | 27        |
| 10 | Elastic Na <sub>x</sub> MoS <sub>2</sub> -Carbon-BASE Triple Interface Direct Robust Solid-Solid Interface for All-Solid-State Na-S Batteries. <i>Nano Letters</i> , 2020, 20, 6837-6844.  | 9.1  | 29        |
| 11 | Microfluidic, One-Batch Synthesis of Pd Nanocrystals on N-Doped Carbon in Surfactant-Free Deep Eutectic Solvents for Formic Acid Electrochemical Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42704-42710.     | 8.0  | 9         |
| 12 | Performance enhancement and degradation mechanism identification of a single-atom Co-N-C catalyst for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2020, 3, 1044-1054.   | 34.4 | 443       |
| 13 | Modulating reactivity and stability of metallic lithium via atomic doping. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10363-10369.   | 10.3 | 18        |
| 14 | Li <sub>x</sub> NiO/Ni Heterostructure with Strong Basic Lattice Oxygen Enables Electrocatalytic Hydrogen Evolution with Pt-like Activity. <i>Journal of the American Chemical Society</i> , 2020, 142, 12613-12619.                   | 13.7 | 103       |
| 15 | Regulating Interfacial Na-Ion Flux via Artificial Layers with Fast Ionic Conductivity for Stable and High-Rate Na Metal Batteries. , 2019, 1, 303-309.   |      | 27        |
| 16 | Diameter dependent doping in horizontally aligned high-density N-doped SWNT arrays. <i>Nano Research</i> , 2019, 12, 1845-1850.  | 10.4 | 4         |
| 17 | Organic-inorganic hybrids of Fe-Co polyphenolic network wrapped Fe <sub>3</sub> O <sub>4</sub> nanocatalysts for significantly enhanced oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14302-14308.              | 10.3 | 40        |
| 18 | Stable high capacity cycling of Li metal via directed and confined Li growth with robust composite sponge. <i>Journal of Power Sources</i> , 2019, 428, 1-7.   | 7.8  | 19        |

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|----|---|------|-----------|
| 19 | Energy-distinguishable bipolar UV photoelectron injection from LiCl-promoted FAPbCl <sub>3</sub> perovskite nanorods. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13043-13049.   | 10.3 | 10        |
| 20 | A fast and stable Li metal anode incorporating an Mo <sub>6</sub> S <sub>8</sub> artificial interphase with super Li-ion conductivity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6038-6044.                                | 10.3 | 34        |
| 21 | Redox Catalytic and Quasi-Solid Sulfur Conversion for High-Capacity Lean Lithium Sulfur Batteries. <i>ACS Nano</i> , 2019, 13, 14540-14548.   | 14.6 | 44        |
| 22 | Manipulating Polysulfide Conversion with Strongly Coupled Fe <sub>3</sub> O <sub>4</sub> and Nitrogen Doped Carbon for Stable and High Capacity Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1807309. | 14.9 | 75        |
| 23 | High rate and stable symmetric potassium ion batteries fabricated with flexible electrodes and solid-state electrolytes. <i>Nanoscale</i> , 2018, 10, 20754-20760.  | 5.6  | 29        |
| 24 | Near surface nucleation and particle mediated growth of colloidal Au nanocrystals. <i>Nanoscale</i> , 2018, 10, 11907-11912.  | 5.6  | 48        |
| 25 | Surface enrichment of Pt in stable Pt-Ir nano-alloy particles on MgAl <sub>2</sub> O <sub>4</sub> spinel in oxidizing atmosphere. <i>Catalysis Communications</i> , 2017, 93, 57-61.  | 3.3  | 5         |
| 26 | Stabilization and transformation of Pt nanocrystals supported on ZnAl <sub>2</sub> O <sub>4</sub> spinel. <i>RSC Advances</i> , 2017, 7, 3282-3286.   | 3.6  | 7         |
| 27 | A high-voltage rechargeable magnesium-sodium hybrid battery. <i>Nano Energy</i> , 2017, 34, 188-194.  | 16.0 | 84        |
| 28 | Molecular Storage of Mg Ions with Vanadium Oxide Nanoclusters. <i>Advanced Functional Materials</i> , 2016, 26, 3446-3453.  | 14.9 | 65        |
| 29 | Rechargeable Mg-Li hybrid batteries: status and challenges. <i>Journal of Materials Research</i> , 2016, 31, 3125-3141.   | 2.6  | 92        |
| 30 | Highly Reversible Zinc-Ion Intercalation into Chevrel Phase Mo <sub>6</sub> S <sub>8</sub> Nanocubes and Applications for Advanced Zinc-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13673-13677.        | 8.0  | 256       |
| 31 | Electronegative guests in CoSb <sub>3</sub> . <i>Energy and Environmental Science</i> , 2016, 9, 2090-2098.   | 30.8 | 93        |
| 32 | Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. <i>Nature Energy</i> , 2016, 1, .   | 39.5 | 2,186     |
| 33 | Toward the design of high voltage magnesium-lithium hybrid batteries using dual-salt electrolytes. <i>Chemical Communications</i> , 2016, 52, 5379-5382.  | 4.1  | 60        |
| 34 | Interface Promoted Reversible Mg Insertion in Nanostructured Tin-Antimony Alloys. <i>Advanced Materials</i> , 2015, 27, 6598-6605.  | 21.0 | 88        |
| 35 | Making a commercial carbon fiber cloth having comparable capacitances to carbon nanotubes and graphene in supercapacitors through a "top-down" approach. <i>Nanoscale</i> , 2015, 7, 3285-3291.                                     | 5.6  | 62        |
| 36 | Realizing the Full Potential of Insertion Anodes for Mg-Ion Batteries Through the Nanostructuring of Sn. <i>Nano Letters</i> , 2015, 15, 1177-1182.   | 9.1  | 87        |

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|----|---|------|-----------|
| 37 | Highly active electrolytes for rechargeable Mg batteries based on a $[\text{Mg}^{2+}(\frac{1}{4}\text{-Cl})^{2+}]$ cation complex in dimethoxyethane. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13307-13314.                       | 2.8  | 126       |
| 38 | Nanostructured Electrocatalysts for PEM Fuel Cells and Redox Flow Batteries: A Selected Review. <i>ACS Catalysis</i> , 2015, 5, 7288-7298.  | 11.2 | 78        |
| 39 | Effect of Multi-Walled Carbon Nanotubes and Conducting Polymer on Capacitance of Mesoporous Carbon Electrode. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 7015-7021.   | 0.9  | 4         |
| 40 | Influence of the Nickel Oxide Nanostructure Morphology on the Effectiveness of Reduced Graphene Oxide Coating in Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2281-2286.                                      | 3.1  | 66        |
| 41 | High performance batteries based on hybrid magnesium and lithium chemistry. <i>Chemical Communications</i> , 2014, 50, 9644-9646.   | 4.1  | 153       |
| 42 | Facile Synthesis of Chevrel Phase Nanocubes and Their Applications for Multivalent Energy Storage. <i>Chemistry of Materials</i> , 2014, 26, 4904-4907.   | 6.7  | 73        |
| 43 | Electrochemically stable cathode current collectors for rechargeable magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2473-2477.   | 10.3 | 77        |
| 44 | Highly Reversible Mg Insertion in Nanostructured Bi for Mg Ion Batteries. <i>Nano Letters</i> , 2014, 14, 255-260.  | 9.1  | 257       |
| 45 | Improving the performance of cobalt-nickel hydroxide-based self-supporting electrodes for supercapacitors using accumulative approaches. <i>Energy and Environmental Science</i> , 2013, 6, 3314.   | 30.8 | 223       |
| 46 | Flexible asymmetric supercapacitors with high energy and high power density in aqueous electrolytes. <i>Nanoscale</i> , 2013, 5, 1067-1073.   | 5.6  | 188       |
| 47 | Carbon Nanomaterials for Flexible Energy Storage. <i>Materials Research Letters</i> , 2013, 1, 175-192.   | 8.7  | 38        |
| 48 | Silver nanoparticle-alginate composite beads for point-of-use drinking water disinfection. <i>Water Research</i> , 2013, 47, 3959-3965.   | 11.3 | 145       |
| 49 | Antimicrobial nanotechnology: its potential for the effective management of microbial drug resistance and implications for research needs in microbial nanotoxicology. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 93-102. | 3.5  | 98        |
| 50 | Significantly Improved Long-Cycle Stability in High-Rate $\text{Li-S}$ Batteries Enabled by Coaxial Graphene Wrapping over Sulfur-Coated Carbon Nanofibers. <i>Nano Letters</i> , 2013, 13, 2485-2489.  | 9.1  | 314       |
| 51 | Highly Efficient Oxygen Reduction Electrocatalysts based on Winged Carbon Nanotubes. <i>Scientific Reports</i> , 2013, 3, 3195.   | 3.3  | 45        |
| 52 | In vitro cytotoxicity of silver nanoparticles in primary rat hepatic stellate cells. <i>Molecular Medicine Reports</i> , 2013, 8, 1365-1372.  | 2.4  | 18        |
| 53 | Direct Optical Imaging of Graphene In Vitro by Nonlinear Femtosecond Laser Spectral Reshaping. <i>Nano Letters</i> , 2012, 12, 5936-5940.   | 9.1  | 29        |
| 54 | Polymeric Coatings on Silver Nanoparticles Hinder Autoaggregation but Enhance Attachment to Uncoated Surfaces. <i>Langmuir</i> , 2012, 28, 4178-4186.   | 3.5  | 112       |

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|----|---|------|-----------|
| 55 | Monolithic co-aerogels of carbon/titanium dioxide as three dimensional nanostructured electrodes for energy storage. <i>Journal of Power Sources</i> , 2012, 218, 140-147.  | 7.8  | 20        |
| 56 | Size-Controlled Dissolution of Organic-Coated Silver Nanoparticles. <i>Environmental Science &amp; Technology</i> , 2012, 46, 752-759.  | 10.0 | 374       |
| 57 | Synergistic Effects from Graphene and Carbon Nanotubes Enable Flexible and Robust Electrodes for High-Performance Supercapacitors. <i>Nano Letters</i> , 2012, 12, 4206-4211.   | 9.1  | 623       |
| 58 | Sulfur-doped zinc oxide (ZnO) Nanostars: Synthesis and simulation of growth mechanism. <i>Nano Research</i> , 2012, 5, 20-26.   | 10.4 | 41        |
| 59 | Deposition of Silver Nanoparticles in Geochemically Heterogeneous Porous Media: Predicting Affinity from Surface Composition Analysis. <i>Environmental Science &amp; Technology</i> , 2011, 45, 5209-5215.   | 10.0 | 88        |
| 60 | More than the Ions: The Effects of Silver Nanoparticles on <i>Lolium multiflorum</i> . <i>Environmental Science &amp; Technology</i> , 2011, 45, 2360-2367.   | 10.0 | 494       |
| 61 | Toxicity Reduction of Polymer-Stabilized Silver Nanoparticles by Sunlight. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4425-4432.   | 3.1  | 190       |
| 62 | A Facile Route to Synthesize Gold Prisms Up to Micrometer Scale Based on Slow Reduction Methods. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 277-282.   | 2.4  | 1         |
| 63 | Unusual corrosion process of gold nanoplates and the mechanism study. <i>Nanoscale</i> , 2010, 2, 685.  | 5.6  | 16        |
| 64 | A direct and facile synthetic route for micron-scale gold prisms and fabrication of gold prism thin films on solid substrates. <i>Materials Chemistry and Physics</i> , 2010, 119, 188-194.   | 4.0  | 6         |
| 65 | Design and Synthesis of Hierarchical MnO <sub>2</sub> Nanospheres/Carbon Nanotubes/Conducting Polymer Ternary Composite for High Performance Electrochemical Electrodes. <i>Nano Letters</i> , 2010, 10, 2727-2733.   | 9.1  | 898       |
| 66 | Organic solar cells using few-walled carbon nanotubes electrode controlled by the balance between sheet resistance and the transparency. <i>Applied Physics Letters</i> , 2009, 94, 123302.   | 3.3  | 44        |
| 67 | Aqueous~Organic Phase-Transfer of Highly Stable Gold, Silver, and Platinum Nanoparticles and New Route for Fabrication of Gold Nanofilms at the Oil/Water Interface and on Solid Supports. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12311-12317. | 2.6  | 91        |