

# Wenhan Guo

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

5,810  
citations

201674

27  
h-index

315739

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

8315  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Electrochemical nitrogen fixation and utilization: theories, advanced catalyst materials and system design. <i>Chemical Society Reviews</i> , 2019, 48, 5658-5716.   | 38.1 | 541       |
| 2  | Metal-Organic Framework-Based Nanomaterials for Electrocatalysis. <i>Advanced Energy Materials</i> , 2016, 6, 1600423.   | 19.5 | 539       |
| 3  | Pristine Metal-Organic Frameworks and their Composites for Energy Storage and Conversion. <i>Advanced Materials</i> , 2018, 30, e1702891.  | 21.0 | 525       |
| 4  | Well-defined carbon polyhedrons prepared from nano metal-organic frameworks for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11606-11613.  | 10.3 | 461       |
| 5  | High-Performance Energy Storage and Conversion Materials Derived from a Single Metal-Organic Framework/Graphene Aerogel Composite. <i>Nano Letters</i> , 2017, 17, 2788-2795.  | 9.1  | 348       |
| 6  | A Universal Strategy for Hollow Metal Oxide Nanoparticles Encapsulated into B/N Co-Doped Graphitic Nanotubes as High-Performance Lithium-Ion Battery Anodes. <i>Advanced Materials</i> , 2018, 30, 1705441.                | 21.0 | 345       |
| 7  | Metal-Organic Frameworks Derived Cobalt Phosphide Architecture Encapsulated into B/N Co-Doped Graphene Nanotubes for All pH Value Electrochemical Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2017, 7, 1601671. | 19.5 | 336       |
| 8  | Metal-Organic Framework-Based Materials for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2020, 5, 520-532.   | 17.4 | 312       |
| 9  | Titanium-based metal-organic frameworks for photocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2018, 359, 80-101.  | 18.8 | 246       |
| 10 | MOF-derived Ni-NiS nanorods on graphene as an electrode for high-energy-density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4003-4012.   | 10.3 | 231       |
| 11 | Ultrafast Sodium/Potassium-Ion Intercalation into Hierarchically Porous Thin Carbon Shells. <i>Advanced Materials</i> , 2019, 31, e1805430.  | 21.0 | 214       |
| 12 | Covalent organic framework-based materials for energy applications. <i>Energy and Environmental Science</i> , 2021, 14, 688-728.   | 30.8 | 209       |
| 13 | Highly exposed ruthenium-based electrocatalysts from bimetallic metal-organic frameworks for overall water splitting. <i>Nano Energy</i> , 2019, 58, 1-10.   | 16.0 | 181       |
| 14 | Hierarchical Cobalt Phosphide Hollow Nanocages toward Electrocatalytic Ammonia Synthesis under Ambient Pressure and Room Temperature. <i>Small Methods</i> , 2018, 2, 1800204.   | 8.6  | 171       |
| 15 | Highly dispersed Co-based Fischer-Tropsch synthesis catalysts from metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8081-8086.   | 10.3 | 132       |
| 16 | Functional Zeolitic-Imidazolate-Framework-Templated Porous Carbon Materials for CO <sub>2</sub> Capture and Enhanced Capacitors. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1879-1885.                                 | 3.3  | 131       |
| 17 | Fabrication of Hollow CoP/TiO <sub>x</sub> Heterostructures for Enhanced Oxygen Evolution Reaction. <i>Small</i> , 2020, 16, e1905075.   | 10.0 | 117       |
| 18 | Tailoring biomass-derived carbon for high-performance supercapacitors from controllably cultivated algae microspheres. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1523-1530.                                       | 10.3 | 104       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Metal-organic framework-derived Fe/Cu-substituted Co nanoparticles embedded in CNTs-grafted carbon polyhedron for Zn-air batteries. , 2020, 2, 283-293.   |      | 95        |
| 20 | Fe <sub>2</sub> /N/N Codecorated Hierarchical Porous Carbon Nanosheets for Trifunctional Electrocatalysis. Small, 2018, 14, e1803500.   | 10.0 | 80        |
| 21 | Kinetic-Controlled Formation of Bimetallic Metal-Organic Framework Hybrid Structures. Small, 2017, 13, 1702049.   | 10.0 | 69        |
| 22 | Fabrication of Co <sub>3</sub> O <sub>4</sub> nanoparticles in thin porous carbon shells from metal-organic frameworks for enhanced electrochemical performance. RSC Advances, 2017, 7, 13340-13346.  | 3.6  | 55        |
| 23 | In situ/operando vibrational spectroscopy for the investigation of advanced nanostructured electrocatalysts. Coordination Chemistry Reviews, 2021, 436, 213824.   | 18.8 | 52        |
| 24 | Metal-organic framework based nanomaterials for electrocatalytic oxygen redox reaction. Science China Chemistry, 2019, 62, 417-429.   | 8.2  | 51        |
| 25 | Tuning Expanded Pores in Metal-Organic Frameworks for Selective Capture and Catalytic Conversion of Carbon Dioxide. ChemSusChem, 2018, 11, 3751-3757.   | 6.8  | 47        |
| 26 | Pressure-induced phase transitions and superconductivity in a quasi-1-dimensional topological crystalline insulator $\text{Bi}_4\text{Br}_4$ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17696-17700.     | 7.1  | 36        |
| 27 | Antiperovskite Intermetallic Nanoparticles for Enhanced Oxygen Reduction. Angewandte Chemie - International Edition, 2020, 59, 1871-1877.   | 13.8 | 31        |
| 28 | Highly efficient K-Fe/C catalysts derived from metal-organic frameworks towards ammonia synthesis. Nano Research, 2019, 12, 2341-2347.  | 10.4 | 30        |
| 29 | Unraveling a novel ferroelectric GeSe phase and its transformation into a topological crystalline insulator under high pressure. NPG Asia Materials, 2018, 10, 882-887.   | 7.9  | 27        |
| 30 | Solid-solution alloy nanoclusters of the immiscible gold-rhodium system achieved by a solid ligand-assisted approach for highly efficient catalysis. Nano Research, 2020, 13, 105-111.  | 10.4 | 23        |
| 31 | Enhanced Adsorption and Mass Transfer of Hierarchically Porous Zr-MOF Nanoarchitectures toward Toxic Chemical Removal. ACS Applied Materials & Interfaces, 2021, 13, 58848-58861.   | 8.0  | 15        |
| 32 | Understanding the lattice nitrogen stability and deactivation pathways of cubic CrN nanoparticles in the electrochemical nitrogen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 8568-8575.   | 10.3 | 12        |
| 33 | Hierarchically porous metal hydroxide/metal-organic framework composite nanoarchitectures as broad-spectrum adsorbents for toxic chemical filtration. Journal of Colloid and Interface Science, 2022, 606, 272-285.   | 9.4  | 7         |
| 34 | Rationalized atomic/clusters dispersion of Fe/Se/Al on interconnected N-doped carbon nanofibers for fast sodiation. Chemical Engineering Journal, 2021, 411, 128420.  | 12.7 | 5         |
| 35 | Antiperovskite Intermetallic Nanoparticles for Enhanced Oxygen Reduction. Angewandte Chemie, 2020, 132, 1887-1893.  | 2.0  | 4         |
| 36 | Hydrogen Evolution: Metal-Organic Frameworks Derived Cobalt Phosphide Architecture Encapsulated into B/N Co-Doped Graphene Nanotubes for All pH Value Electrochemical Hydrogen Evolution (Adv. Energy Mater. 9/2017). Advanced Energy Materials, 2017, 7, . | 19.5 | 3         |