RESEARCH & PUBLICATIONS

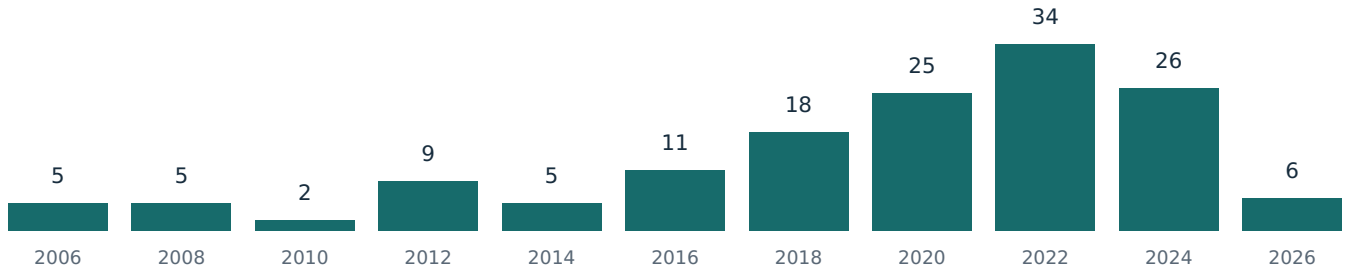
Jun He

A publication record at a glance

146	5,542	42
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 2-year periods



MOST CITED IN THIS LIST

Porous Field-Effect Transistors Based on a Semiconductive Metal–Organic Framework — 485
2017 Journal of the American Chemical Society

High Efficiency Nondoped Deep-Blue Organic Light Emitting Devices Based on Imidazole-π-Triphenylamine Derivatives — 329
2012 Chemistry of Materials

In-Situ Intermolecular Interaction in Composite Polymer Electrolyte for Ultralong Life Quasi-Solid-State Lithium Metal Batteries — 210
2021 Angewandte Chemie - International Edition

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2026

01 Linker Torsional Angle Engineering in Metal–Organic Frameworks Enables Boosted O2 Photoactivation for Organic Synthesis
12 citations
Journal of the American Chemical Society · 148, 14245-14255
https://exaly.com/article/212006471

02 Creating Anionic Microenvironment Around Single-Atom Fe Sites in Metal–Organic Frameworks for Enhanced Nitrate Electroreduction
9 citations
Angewandte Chemie - International Edition · 65, e8338805
https://exaly.com/article/212306201

03 Interpretable Machine Learning Unveils Hydroxyl/Amino Synergy and Guides Discovery of Optimal MOF Photocatalysts for Hydrogen Evolution
6 citations
Journal of the American Chemical Society · 148, 30998-31010
https://exaly.com/article/214898491

04 Trinuclear Coordination Clusters as Photoelectrocatalysts for Highly Efficient Nitrate Reduction to Ammonia
0 citations
Chemical Communications · 62, 14754-14758
https://exaly.com/article/215607888

05 Oxygen Heteroatom-Induced Localized Dipole Polarization Enabling Charge Separation for Efficient Photocatalytic H2O2 Production
0 citations
Chemical Communications · 62, 15970-15974
https://exaly.com/article/216276087

06 Unveiling the Optimal Conjugation Threshold in Covalent Organic Frameworks for Photocatalytic Hydrogen Peroxide Production
0 citations
Small · 22, e74842
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2025

07 Building Metal-Thiolate Sites and Forming Heterojunction in Hf- and Zr-Based Thiol-Dense Frameworks Towards Stable Integrated Photocatalyst for Hydrogen Evolution
4 citations
Chinese Chemical Letters · 36, 110120
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08 Fluorine-Functionalized Zirconium-Organic Cages for Efficient Photocatalytic Oxidation of Thioanisole
2 citations
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09 **Nitrate-to-Ammonia Conversion With a Plasmonic Antenna–Reactor Catalyst**
Energy and Environmental Science · 18, 1673-1682
https://exaly.com/article/195047649
23 citations

10 **Ligand Engineering of Metal-Organic Frameworks as Efficient Electrocatalysts for Wide-Temperature Lithium-Sulfur Batteries**
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https://exaly.com/article/195621448
13 citations

11 **Diacetylene-Bridged Covalent Organic Framework as Crystalline Graphdiyne Analogue for Photocatalytic Hydrogen Evolution**
Chemical Science · 16, 1948-1956
https://exaly.com/article/195734783
34 citations

12 **An Oxazole-Linked Donor–Acceptor Covalent Organic Framework as an Efficient Electrocatalyst for Lithium–Sulfur Batteries**
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13 **High-Performance Overall Water Splitting Dominated by Direct Ligand-to-Cluster Photoexcitation in Metal–Organic Frameworks**
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1 citations

15 **A Single-Crystal 3D Zn-Tetrathiolate Connected Metal–Organic Framework**
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1 citations

16 **Strategic Metal Substitution for Enhanced Visible-Light-Driven Oxygen Evolution in Heterometallic MOFs**
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3 citations

17 **Zn-Thiocatecholate Functionalized MOF Modified Separator Stabilizing Zinc Anodes for Long-Life Aqueous Zinc-Ion Batteries**
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18 Overview of Some Second- and Third-Row Late Transition Metal Pincer-Type N-Heterocyclic Carbene Complexes: Synthesis, Optical Properties, and Applications
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19 Linkage Orientation Engineering of Covalent Organic Frameworks Enables Flexible Generation of Reactive Oxygen Species in Photocatalytic O2 Activation
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31 citations

20 Flexibly Bonded Lead–Halogen Dual Sites of Coordination Polymers for Photocatalytic C–N Coupling
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1 citations

21 Metal–Organic Frameworks for Photocatalytic Hydrogen Production Coupled With Selective Oxidation Reactions
ChemPhysChem · 26, e202500459
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6 citations

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22 Robust Zinc Anode Enabled by Sulfonate-Rich MOF-Modified Separator
Small · 20, 2305687
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52 citations

23 Covalently Introducing Sulfur in a Thiol-Rich MOF Toward Advanced Lithium-Sulfur Batteries
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6 citations

24 Regulating the Electronic Configuration of Ni Sites by Breaking Symmetry of Ni-Porphyrin to Facilitate CO2 Photocatalytic Reduction
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25 Easy but Efficient: Facile Approach to Molecule With Theoretically Justified Donor–Acceptor Structure for Effective Photothermal Conversion and Intravenous Photothermal Therapy
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26 Efficient Lead Removal by Assembly of Bio-Derived Ellagate Framework, Which Enables Electrocatalytic Reduction of CO2 to Formate

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27 Metal– and Covalent Organic Frameworks for Photocatalytic CO2 Reduction Coupled With H2O Oxidation

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28 2D Zirconium-Based Metal-Organic Framework/Bismuth(III) Oxide Nanorods Composite for Electrocatalytic CO2-to-Formate Reduction

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Chinese Journal of Structural Chemistry · 43, 100301

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29 2D Metal–Organic Frameworks Bearing Butterfly-Shaped Metal-Bis(Dithiolene) Linkers From Dithiol-Functionalized Benzenedicarboxylic Acid

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30 Insight Into Stable, Concentrated Radicals From Sulfur-Functionalized Alkyne-Rich Crystalline Frameworks and Application in Solar-to-Vapor Conversion

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31 Enhancing Donor–Acceptor Interaction and Framework Stability by the Povarov Reaction for Photocatalytic H2O2 Production

41 citations

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32 Self-Similar Ligand for 2D Zr(IV)-Based Metal–Organic Frameworks: Fluorescent Sensing and Catalysis

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33 Metal-Organic Framework-Based Catalysts for Lithium-Sulfur Batteries

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34 Symbiotically Reinforced Bimetallic Photocatalysis in Conjugated Metal–Organic Framework Nanosheets

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3 citations
CrystEngComm · 25, 347-351
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36 Utilizing Metal-Thiocatecholate Functionalized UiO-66 Framework for Photocatalytic Hydrogen Evolution Reaction
53 citations
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37 Substituents Make a Difference: 6,6"-Modified Terpyridine Complexes With Helix Configuration and Enhanced Emission
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38 Boosting the Electrochemical Performance of Zn-Air Battery With N/O Co-Doped Biochar Catalyst via a Simple Physical Strategy of Forced Convection Intensity
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Chemical Engineering Science · 272, 118615
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40 MOF-Based Colorimetric Sensor for Rapid and Visual Readout of Trace Acetylene
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41 Water-Stable Halide Coordination Polymers With Dual Self-Trapped Exciton Emissions for Dual-Mode Hg2+ Sensing
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45 UiO-66 Framework Equipped With Cadmium-Thiocatecholato Moieties as Photocatalyst Bearing Stable Active Sites and Intrinsic Photosensitizing Units for Hydrogen Evolution Reaction
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46 Minimalist Design for Solar Energy Conversion: Revamping the π-Grid of an Organic Framework Into Open-Shell Superabsorbers
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47 Superprotonic Conductivity in Metal–Organic Frameworks by Charged-Layer-Mediated Proton Conduction
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48 Secondary Interaction-Manipulated Metal–Organic Crystalline Nanotube Array for Gas Sensing
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56 Metal-Organic Frameworks Constructed From Trivalent Lanthanide Nodes (Eu3+, Tb3+, and Dy3+) and Thiophenethio-Functionalized Linker With Photoluminescent Response Selective Towards Ag+ Ions — 14 citations

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57 Highly Crystalline Flower-Like Covalent-Organic Frameworks Enable Highly Stable Zinc Metal Anodes — 64 citations

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59 Dual-Redox Sites Guarantee High-Capacity Sodium Storage in Two-Dimension Conjugated Metal–Organic Frameworks — 78 citations

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64 Design and Facile Synthesis of a Photothermally Active Metal–Organic Framework Bearing Persistent Radicals via Post-Synthetic Thermal Annealing — 15 citations

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67 Conjugated Crosslinks Boost the Conductivity and Stability of a Single Crystalline Metal–Organic Framework — 14 citations

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