

Metal-organic frameworks (MOFs), which are porous crystal materials with a large surface area and high porosity, have been extensively studied. MOF derivatives with complex structures, including hollow, ...

Owing to their exceptional advantages, MOF-derived carbon materials (MDCMs) have gained a great interest as promising nanomaterials for environmental and energy photocatalytic ...

As water scarcity escalates globally, recycling and reusing water resources is crucial for ensuring sustainable access to clean water. Photothermal technology for seawater desalination and ...

However, their inherent nonconducting nature poses a challenge to their practical implementation in numerous fields. In this article, we introduce the Metal-Organic Framework and ...

In this review, the K ion storage mechanism and its relation with MOFs-based materials are discussed. Then, all newly publications on the electrochemical performance of MOF-based ...

Metal-organic framework (MOF)-derived carbon materials (CMs) have drawn great interest in many fields of application, such as energy storage and conversion, environmental remediation, and ...

In this context, this review systematically summarizes the latest advances in tailored types, processing strategies, and energy-related applications of MOF-derived CMs and focuses on ...

Herein, we presented a strategy for the in situ fabrication of high-performance adsorbents, lithium chloride (LiCl)-decorated metal-organic framework (MOF)-derived porous carbon ...

Metal-organic frameworks (MOFs), a new class of crystalline porous materials, have gained extensive explorations as a highly versatile platform for functional applications in many ...

These materials and their composites have gained much attention in recent years, both as effective sorbents and as photocatalysts, for removing several toxicants such as heavy metals and ...

Yet, despite rapid advances, the field remains fragmented, with insights often siloed by battery chemistry or material subclass. This review bridges those divides, providing a unified, mechanism-driven ...

Platinum-group metal (PGM)-free materials have been intensively investigated as alternatives to replace the well-accepted but costly PGM-based catalysts such as Pt for ORR and ...





# Advances in mof-derived carbon materials in solar container

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