

Metal-organic framework (MOF)-based materials, including pristine MOFs, MOF composites, and MOF derivatives, have become a research focus in energy storage and ...

Over the past few years, a new type of organic materials, two-dimensional covalent organic frameworks (2D COFs), have attracted increasing attention and are explored as both electrode ...

This special issue of Metal Hydride-Based Energy Storage and Conversion Materials is focused on the synthesis, catalyst development, and nano-structuring of light ...

Rabuffi M, Picci G (2002) Status quo and future prospects for metallized polypropylene energy storage capacitors. IEEE Trans Plasma Sci 30:1939-1942. Article CAS ...

Energy Storage Materials is an international multidisciplinary journal for communicating scientific and technological advances in the field of materials and their devices for advanced energy ...

Unveiling aqueous lithium-ion batteries via advanced modelling and characterisation: A review ...

Metal-organic frameworks (MOFs) are attractive in many fields due to their unique advantages. However, the practical applications of single MOF materials are limited. In ...

Unveiling aqueous lithium-ion batteries via advanced modelling and characterisation: A review Guo X.; He H.; Zhao S.; Dong H.; Shearing P.R.; Jervis R.; Lin J.

MOF-related materials have been demonstrated as potential candidates for essential components in electrochemical energy storage and conversion devices, such as electrode materials, ...

In recent years, metal-ion (Li +, Na +, K +, etc.) batteries and supercapacitors have shown great potential for applications in the field of efficient energy storage. The rapid ...

MOF-related materials have been demonstrated as potential candidates for essential components in electrochemical energy storage and conversion ...

Binary transition metal oxides (BTMOs) possess higher reversible capacity, better structural stability and electronic conductivity, and have been widely studied to ...

However, confined by limited power density for batteries and inferior energy density for supercapacitors, exploiting high-performance electrode materials holds the key to ...

The nano/micro morphology of MOs critically influences energy storage and electrochemical behavior. Some of the key electrochemical or energy storage parameters for ...

The family of 2D transition metal carbides, carbonitrides and nitrides (collectively referred to as MXenes) has expanded rapidly since the discovery of Ti_3C_2 in 2011. The ...

Various energy storage technologies exist, including mechanical, electrical, chemical, and thermal energy storage [12]. Thermal energy storage (TES) has received ...

Furthermore, MOFs may be used as outstanding electrode materials or as precursors for the production of other sophisticated materials. 36 MOFs, for example, have been utilized to ...

Renewable energy sources, such as solar and wind power, are taking up a growing portion of total energy consumption of human society. Owing to the intermittent and fluctuating power output ...

The nano/micro morphology of MOs critically influences energy storage and ...

Solid-state hydrogen storage is one solution to all the above challenges. Materials under investigation include organic polymers, metal-organic frameworks (MOFs), ...

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