

Thus, transition metal dichalcogenide nanomaterials have shown important research progress in the field of energy conversion and storage. For energy-related applications such as solar cells, catalysts, thermo-electrics, ...

However, the theoretical specific energy of graphite is 372 mA h g^{-1} (with LiC₆ final product), which leads to a limited specific energy. 69,70 For a higher energy density to cater for smaller devices, intensive efforts have been made in ...

His research interests focus on the discovery of new solids including sustainable energy materials (e.g. Li batteries, fuel storage, thermoelectrics), inorganic nanomaterials and the solid state ...

Electrochemical energy storage technologies have a profound influence on daily life, and their development heavily relies on innovations in materials science. Recently, high ...

A considerable global leap in the usage of fossil fuels, attributed to the rapid expansion of the economy worldwide, poses two important connected challenges [1], [2]. The primary problem is ...

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids. Replacing fossil ...

These materials offer great opportunities to design and synthesize new energy storage electrodes by organizing redox-active monomers into the periodic framework structures. We are highly interested in the design and synthesis of ...

Energy storage and conversion are vital for addressing global energy challenges, particularly the demand for clean and sustainable energy. Functional organic materials are gaining interest as ...

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 ...

1 Introduction. Global energy consumption is continuously increasing with population growth and rapid industrialization, which requires sustainable advancements in both energy generation and energy-storage ...

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