

Fossil fuels are widely used around the world, resulting in adverse effects on global temperatures. Hence, there is a growing movement worldwide towards the introduction and use of green energy, i.e., energy produced without emitting pollutants. Korea has a high dependence on fossil fuels and is thus investigating various energy production and storage ...

Materials offering high energy density are currently desired to meet the increasing demand for energy storage applications, such as pulsed power devices, electric vehicles, high-frequency inverters, and so on. Particularly, ceramic-based dielectric materials have received significant attention for energy storage capacitor applications due to their ...

Hydrogen energy has been widely used in large-scale industrial production due to its clean, efficient and easy scale characteristics. In 2005, the Government of Iceland proposed a fully self-sufficient hydrogen energy transition in 2050 [3] 2006, China included hydrogen energy technology in the "China medium and long-term science and technology development ...

Integrative Energy Storage Solutions: MXenes offer a platform for integrated energy storage solutions that extend beyond conventional batteries to catalysis, sensors, and electronics. As researchers focus on MXene-based supercapacitors, hybrid systems, and beyond, there is a remarkable opportunity to create versatile devices with high power and ...

Therefore, there is an urgent need for an up-to-date review on the rational design and fabrication of biomass-based functional carbon materials (BFCs) with multi-dimension structures and their applications in energy conversion and storage, as shown in Fig. 1 rstly, this review details the synthesis methods of BFCs, including carbonization, activation and ...

The objective of this Topic is to set up a series of publications focusing on the development of advanced materials for electrochemical energy storage technologies, to fully enable their high performance and sustainability, and eventually fulfil their mission in practical energy storage applications. Dr. Huang Zhang Dr. Yuan Ma Topic Editors ...

The urgent need for efficient energy storage devices (supercapacitors and batteries) has attracted ample interest from scientists and researchers in developing materials with excellent electrochemical properties. Electrode material based on carbon, transition metal oxides, and conducting polymers (CPs) has been used. Among these materials, carbon has ...

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