

Supercapacitors and batteries are among the most promising electrochemical energy storage technologies available today. Indeed, high demands in energy storage devices require cost ...

Due to high power density, fast charge/discharge speed, and high reliability, dielectric capacitors are widely used in pulsed power systems and power electronic systems. However, compared ...

As the lightest family member of the transition metal disulfides (TMDs),  $\text{TiS}_2$  has attracted more and more attention due to its large specific surface area, adjustable band gap, ...

Biomass-derived electrodes for supercapacitors and batteries lead to the growing energy storage demands of today's world. ... Classification of energy storage devices and their ...

Doping graphene with oxygen (O), nitrogen (N), sulfur (S) and boron (B) have been proved to be effective in enhancing the performance of graphene paper for energy storage. 110, 138-141 ...

In today's nanoscale regime, energy storage is becoming the primary focus for majority of the world's and scientific community power. Supercapacitor exhibiting high power ...

Reversible electrochemical mirror (REM) electrochromic devices based on reversible metal electrodeposition are exciting alternatives compared with conventional electrochromic because they offer ...

Energy storage devices (ESD) play an important role in solving most of the environmental issues like depletion of fossil fuels, energy crisis as well as global warming ...

The rapid consumption of fossil fuels in the world has led to the emission of greenhouse gases, environmental pollution, and energy shortage. 1,2 It is widely acknowledged that sustainable ...

Doping graphene with oxygen (O), nitrogen (N), sulfur (S) and boron (B) have been proved to be effective in enhancing the performance of graphene paper for energy storage. 110, 138-141 Lu et al. successfully fabricated N-doped ...

Moreover, the present status of the state-of-the-art design of carbon-based pure/doped/hybrid nanomaterials, their functionalities with a better in-depth understanding of materials, as well as their interfaces and phenomena ...

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