

This review summarizes the progress of graphene materials for miniaturized energy harvest and storage devices, including solar cell, mechanical energy harvesters, moisture and liquid flow generators, batteries and ...

Advanced Energy & Sustainability Research, part of the prestigious Advanced portfolio, is the open access journal of choice for energy and sustainability science. Electrochemical energy ...

Advanced Energy and Sustainability Research. Volume 2, Issue 5 2000102. Perspective. Open Access. ... Lithium-air and lithium-sulfur batteries are presently among the ...

In order to achieve a paradigm shift in electrochemical energy storage, the surface of nvdW 2D materials have to be densely populated with active sites for ... Nature Communications, Advanced Energy Materials, and ...

The success of nanomaterials in energy storage applications has manifold aspects. Nanostructuring is becoming key in controlling the electrochemical performance and exploiting various charge storage ...

While these technologies continue to be optimized for cost, lifetime, and performance, there is a substantial growing demand (multi billion dollars) for advanced electrochemical energy ...

The development of advanced electrochemical energy storage devices (EESDs) is of great necessity because these devices can efficiently store electrical energy for diverse applications, ...

Feature papers represent the most advanced research with significant potential for high impact in the field. A Feature Paper should be a substantial original Article that involves several techniques or approaches, ...

On the basis of the sustainable concept, organic compounds and carbon materials both mainly composed of light C element have been regarded as powerful candidates for advanced electrochemical energy ...

Energy is essential in our daily lives to increase human development, which leads to economic growth and productivity. In recent national development plans and policies, numerous nations ...

In the past few decades, electricity production depended on fossil fuels due to their reliability and efficiency [1]. Fossil fuels have many effects on the environment and directly ...

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