# Three-dimensional configuration of new energy storage

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The 3D structural designs of these devices show significant potential for enhancing energy storage performance by enabling high active material loading, efficient ion/electron transport within ...

To solve these critical problems, we have developed promising hybrid electrodes based on 3D graphene doped with MnO 2 nanoflowers.

This study presents a novel approach to improving energy storage through the design of three-dimensional (3D) graphene nanostructures inspired by triply periodic minimal surfaces, ...

Three-dimensional (3D) printing has emerged as a promising technology for the fabrication of energy devices due to its unique capability of manufacturing complex shapes across different...

This review critically examines the major 3D printing techniques applied in energy device fabrication, benchmarking them against traditional methods, and discusses key material ...

These data unequivocally demonstrate the impact and popularity of 3D carbon materials in electrochemical energy conversion and storage. The six research articles highlight the versatility of ...

From a microscope to a macroscope view, this review summarizes the recent advances in electrochemically active nanomaterials, novel current collectors, and integrations of the devices in 3D ...

To this end, engineering 3D structural configurations with interconnected porous channels is one of the most effective strategies to resolve the abovementioned problems.

Benefiting from numerous merits such as high electrical conductivity, structural diversity, and excellent chemical stability, three-dimensional (3D) carbon-based materials have been widely ...

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