

Hydrogen storage is of great interest to researchers due to its renewable and clean energy properties. Therefore, there is a continuous search for innovative compounds ...

2 ???&#0183; The micro-scale energy storage devices (MESDs) have experienced significant revolutions driven by developments in micro-supercapacitors (MSCs) and micro-batteries ...

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Mechanical energy storage can be added to many types of systems that use heat, water or air with compressors, turbines, and other machinery, providing an alternative to battery storage, and enabling clean power to be stored for days.

Mechanical, electrical, chemical, and electrochemical energy storage systems are essential for energy applications and conservation, including large-scale energy preservation [5], [6]. In ...

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The rise of flexible electronic devices has established the energy density of flexible energy storage devices as a critical factor restricting their application [44,45]. To ...

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