

Hydrogen is a promising clean and renewable energy source; however, its efficient storage is one of the key challenges of establishing the sustainable hydrogen economy. The light main group ...

A breakthrough in clean energy could unlock affordable, industrial-scale green hydrogen. For the first time, scientists have determined how to scale up decoupled water electrolysis, a technique that produces green hydrogen ...

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The new liquid contains up to 6.9% hydrogen by weight, surpassing the hydrogen storage goals set by the U.S. Department of Energy for 2025. This discovery marks the beginning of a new ...

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Selecting the right hydrogen storage method involves a careful consideration of various factors, including application requirements, infrastructure availability, cost, and safety. Compressed ...

This paper proposes a two-layer, multi-step optimal sizing framework for electric-hydrogen energy storage to address multi-scale energy storage requirements. The first step, the optimal sizing ...

Nanomaterials with remarkable specific structures indicate promising applications in the field of energy storage, electrocatalysis, and fuel cells. Currently, the present research aims to explore ...

By combining experimental insights with computational advances, carbon-based hydrogen storage platforms are expected to play a pivotal role in the next generation of energy storage ...

Hydrogen storage plays a crucial role in enabling its large-scale adoption as an energy carrier. This study examines the technical and economic aspects of storing hydrogen in 200-bar ...

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