

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 ...

This CEG report contains new analysis evaluating the feasibility of hydrogen power plants as long-duration energy storage resources, based on cost competitiveness as well as equity and ...

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 ...

Zimbabwe, Africa's top lithium producer, recorded a 30% increase in spodumene concentrate exports in the first half of 2025, according to the Minerals Marketing Corporation of Zimbabwe ...

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

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 ...

METASPACEX, a leading energy sector company, has announced a strategic partnership with Chongqing Bihe New Energy Technology Co., Ltd. (Chongqing Bihe) to enter the hydrogen ...

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 ...

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 ...

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