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We first discuss the physicochemical principles driving hydrogen physisorption, chemisorption, Kubas interaction, and spillover effects on carbon surfaces. Classical adsorbents, such as...

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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 ...

It consists of a solar energy system, battery storage, and a hydrogen-based ESS (including a fuel cell, electrolyzer, and hydrogen reservoir), along with a local grid connection and two EV fast ...

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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 ...

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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 ...

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