

So-called liquid organic hydrogen carriers (LOHCs) offer a solution to the storage and transport problem. But inserting and extracting hydrogen into LOHCs requires catalysts that are often ...

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 ...

Green Hydrogen, Energy Storage & Solar: The Future of Energy Is Collaborative and Digital We need to discuss the importance of collaboration, innovation, and digitalization in driving a ...

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 ...

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 ...

To tackle frequency regulation challenges in remote desert-based renewable energy hubs--where traditional power infrastructure is unavailable--this study introduces a planning framework for ...

Now, researchers report the discovery of a cheap catalyst that adds hydrogen atoms to oil-like molecules that are liquid at ambient temperature and pressure. That means hydrogen could be ...

In the face of the climate emergency and the need to reduce dependence on fossil fuels, it is increasingly clear that the energy transition cannot be achieved through direct electrification alone. Complementary solutions are necessary, ...

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 ...

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 ...

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

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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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 ...

Underground storage in salt formations offers a safe, scalable and flexible solution for storing green hydrogen, helping to stabilise the energy system and manage the intermittency of ...

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Hydrogen storage used to be one of those niche industrial topics only a few insiders really paid attention to. But not anymore. Today, it's becoming a powerhouse in the global clean energy ...



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