

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 ...

Hydrogen is widely recognized as a key enabler of the clean energy transition, but the lack of safe, efficient, and scalable storage technologies continues to hinder its broad deployment. ...

French aerospace companies XSun and H3 Dynamics will develop an unmanned aerial vehicle powered by a combination of solar energy, hydrogen fuel cells, and battery storage, in what's ...

The future of energy could be increasingly streamlined, sustainable, and efficient, with battery developments and the integration of machine learning. This article explores the future of energy, from Li-ion batteries for electric vehicles and AI ...

The global hydrogen energy storage market size was valued at USD 18.78 billion in 2025 and is projected to reach approximately USD 34.56 billion by 2034, growing at a CAGR of 7.01% during the forecast period. This ...

However, surface storage facilities are not suitable for storing such a light substance in large quantities. On the other hand, underground geological storage reservoirs, such as depleted hydrocarbon reservoirs, saline aquifers, ...

Exolum has successfully demonstrated how existing energy infrastructure can meet the long-standing challenge of hydrogen storage. Road and aviation fuel pipeline and storage infrastructure, like that owned Exolum, can be adapted to ...

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

The United Kingdom's (UK) government has awarded ZeroAvia and consortium partners a grant of £10.8 million towards the project to develop a novel liquid hydrogen management system. ...

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 ...

Hydrogen is well known to have significant potential for clean energy use, but as the lightest molecule with a high escape rate, boil-off during storage has a significant impact. By ...

# Hydrogen fuel storage

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 "poisoned" and rendered useless by carbon monoxide ...

Road and aviation fuel pipeline and storage infrastructure can be adapted to safely, efficiently, and cost-effectively store and distribute hydrogen, helping to tackle one of the key challenges of ...

The hydrogen fuel cell automotive market is poised for significant growth, driven by increasing environmental concerns and the need for cleaner transportation solutions. While currently a ...

Hydrogen fuel cell vehicles are expected to experience a rapid expansion thanks to new global environmental goals, according to insiders and experts, who also acknowledge difficulties on the road to commercialization.

Stellantis has officially announced the termination of its hydrogen fuel cell technology development program, citing persistent market and infrastructure limitations that hinder economic viability. The move comes just months before ...



# Hydrogen fuel storage

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