

To achieve these goals, idea-sharing among the scientific community is indispensable. We extend our heartfelt gratitude to all contributors to this collection and hope their contributions will ...

Green hydrogen is a key component in the global transition toward a zero-carbon energy society, working as a crucial clean energy carrier. Green hydrogen production by water ...

Key recommendations included increased R& D efforts to improve hydrogen liquefaction technologies, as well as storage and component materials and designs. Updated codes and standards associated with ...

Abstract Industry 4.0 technologies are reordering the global industry structure, creating new markets, products, improving labor productivity, and driving growth in advanced economies. ...

This review highlights innovations in hydrogen storage, focusing on carrier synthesis and photocatalytic hydrogen release for sustainable, energy-efficient solutions. Advancing catalysts, ...

A major producer and supplier of renewable green hydrogen intends to place the first major order with the technology corporation Rheinmetall in the field of hydrogen storage and ...

Solar hydrogen production has attracted widespread attention due to its cleanliness, safety, and potential climate mitigation effects. This is the first paper that reviews various solar ...

Only when hydrogen is produced by renewable energy can this type of fuel be classified as green and renewable and the variable energy-producing solutions of solar and wind can ...

Compact hydrogen-to-electricity container system converts solar power into hydrogen storage and electricity, offering scalable, off-grid energy solutions for remote sites and disaster zones.



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