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Abstract This comprehensive review examines hydrogen's potential as a pivotal clean energy carrier, focusing on its role in replacing fossil fuels across various industries. This study also ...

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Abstract Solar hydrogen production from water is a sustainable alternative to traditional hydrogen production route using fossil fuels. However, there is still no existing large-scale solar ...

The review also highlights innovative hydrogen storage technologies, such as metal hydrides, metal-organic frameworks, and liquid organic hydrogen carriers, which address the ...

