Research on new energy storage and hydrogen production technology

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The main motivation of this paper is to study the latest developments in hydrogen and battery storage technologies, the respective strengths and limitations, and ...

It assesses physical and material-based hydrogen storage methods, evaluating their feasibility, performance, and safety, and comparing HFCEVs ...

This paper reviews the current progress and outlook of hydrogen technologies and their application in power systems for hydrogen production, re ...

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In this Perspective, we examine the challenges hydrogen faces from production to usage, assessing its environmental and economic credentials, ...

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Hydrogen is a promising clean energy source and targets plan pathways towards decarbonization and net-zero emissions by 2050. This paper has highlighted the techniques for ...

This article provides a detailed review of the current status and development trends in traditional hydrogen production methods, generally based on energy-rich resources such as coal, ...

This review critically examines the key bottlenecks in green hydrogen production, focusing on water electrolysis technologies, electrocatalyst limitations, and integration with ...

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