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A review. Hydrogen as an energy carrier is very versatile in energy storage applications. Developments in novel, sustainable technologies towards a CO₂-free society are needed and the exploration of all-solid-state ...

Metal hydride hydrogen storage. Metal hydrides, such as MgH₂, NaAlH₄, LiAlH₄, ... According to the literature, hydrogen energy went through a hype-cycle type of development in the 2000s. Research in Hydrogen Storage Materials grew ...

Both non-renewable energy sources like coal, natural gas, and nuclear power as well as renewable energy sources like hydro, wind, wave, solar, biomass, and geothermal energy can be used to produce hydrogen. The ...

Hydrogen storage in the form of liquid-organic hydrogen carriers, metal hydrides or power fuels is denoted as material-based storage. Furthermore, primary ways to transport ...

Problem of hydrogen storage is a key point for the extensive use of hydrogen as an energy carrier. Metal hydrides provide a safe and very often reversible way to store energy that can be accessed after hydrogen ...

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