

This review compares and summarizes different thermochemical storage systems that are currently being investigated, especially TCS based on metal oxides. Various experimental, numerical, and ...

4 Particle Technology in Thermochemical Energy Storage Materials. Thermochemical energy storage (TCES) stores heat by reversible sorption and/or chemical reactions. TCES has a very high energy density with a volumetric ...

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Thermochemical energy storage has become an emerging research hotspot for efficient heat storage due to its high energy density and materials suitable for long-term storage and long ...

In this work, a comprehensive review of the state of art of theoretical, experimental and numerical studies available in literature on thermochemical thermal energy storage systems and their use in power-to-heat applications is ...

Thermochemical energy storage (TCS) systems are receiving increasing research interest as a potential alternative to molten salts in concentrating solar power (CSP) plants. In this framework, alkaline-earth ...

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