

Numerical analysis of stress and deformation characteristics of compressed air energy storage chambers developed from a modified coal mine tunnel, Yanxi Chen, Cheng Zhao, Yuan Qian, Zeyuan Sun, Jinquan Xing, Boyi Zhang

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Integrating thermal energy storage (TES) into GSHP systems can effectively improve building energy flexibility and offer the potential for load shifting [19]. ... Postdoctoral Science Foundation of Shaanxi Province. The first author (Zeyuan Wang) acknowledges the support of the China Scholarship Council program (202306280191). Additionally, the ...

The formation of CH₄ hydrate in a mesoporous metal-organic framework MIL-101 is investigated by microsecond molecular dynamics simulations. CH₄ hydrate is observed to form preferentially in the outer space of MIL-101 cavities rather than inside the cavities; only when the hydrate formation is nearly complete in the outer space can stable hydrate form in MIL-101 ...

Zeyuan Li. Zeyuan Li. This person is not on ResearchGate, or hasn't claimed this research yet. ... Stationary energy storage is an essential requirement that could be fulfilled by the fabrication ...

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Battery electricity storage is a key technology in the world's transition to a sustainable energy system. Battery systems can support a wide range of services needed for the transition, from providing frequency response, reserve capacity, black-start capability and other grid services, to storing power in electric vehicles, upgrading mini-grids and supporting "self-consumption" of ...

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The lithium-ion batteries are a new type of green energy storage device, which have the characteristics of high energy density, low self-discharge, long cycle life, etc. [1] [2] [3]. Therefore ...

Global investment in battery energy storage exceeded USD 20 billion in 2022, predominantly in grid-scale deployment, which represented more than 65% of total spending in 2022. After solid growth in 2022, battery energy storage investment is expected to hit another record high and exceed USD 35 billion in 2023, based on the existing pipeline of ...

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In this paper, a radiative heat transfer model is developed and a computational fluid dynamics approach is used to simulate concentrated solar energy (CSE) absorption by a packed bed of silicon carbide (SiC). Radiative heat transfer plays a very important role when the temperature is high, such as the temperature of a medium upon receiving radiative CSE. In ...

The three-dimensional computational fluid dynamics model approach is used to simulate concentrated solar energy (CSE) storage by using a novel and innovative design of packed beds of silicon carbide (SiC). The heat transfer model that was developed and verified by comparison with the experimental data using a packed bed of SiC particles was modified and ...

In this work, we demonstrate that the classic hydrogen storage alloy LaNi₅ can catalyze the reversible hydrogen storage in N-ethylcarbazole (NEC), one of the most promising liquid organic hydrogen carriers (LOHCs), with high efficiency and cyclic stability. Using CaH₂ reduction in molten salt, uniform LaNi_{5+x}

particles around 100 nm are obtained from ...

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For further confirm the performance of energy storage and conduction of heat, the temperature changes with time of PEG and FSPCMs at heating and cooling process was studied. Seen from Fig. 8, during the heating process, the times required are approximately 250 s and 760 s for S4 and PEG when the temperature increasing from 25 °C to 65 °C. And ...

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