Jingrui energy storage

Jingrui Zhang currently works at the Department of Instrumental & Electrical Engineeriing, Xiamen University. Jingrui does research in Power Systems Optimization, Energy Management for ...

Considering the scarcity of ground space, especially in large cities, the utilization of underground space for compressed air storage has become a viable solution for large-scale ...

A distributed Dynamic Average Consensus (DAC) strategy is proposed to address the State of Charge (SoC) equalization control problem of multiple Battery Energy ...

In future work, the game model of the integrated energy system with energy storage will be studied to fully explore the commer-cial value of large-scale application of hydrogen energy ...

Siyu ZHOU, Zheng TANG, Jingrui FAN, Yougen TANG, Dan SUN, Haiyan WANG. Research progress of transition metal oxide micro-nano structured arrays for sodium-ion batteries [J]. ...

CaCO3/CaO materials possess the advantages of low cost, high energy storage density, and working temperature, which offer these materials the potential to be used in ...

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The calcium-based thermochemical energy storage is one of the most promising technologies in the field of solar energy utilization and energy storage.

A comparison of compressed carbon dioxide energy storage and compressed air energy storage in aquifers using numerical methods Renewable Energy 2022-03 | Journal article DOI: ...

Direct solar-driven calcination kinetics for Ca-looping thermochemical energy storage. Jingrui Liu Yiming Xuan Liang Teng Qibin Zhu Xianglei Liu. Engineering, Environmental Science of ...

CaCO3 is a promising material for thermochemical energy storage (TCES) systems. It can store and release heat upon reversible decarbonation to CaO, wh...

Compared to traditional liquid electrolyte batteries, solid metal batteries offer advantages such as a wide operating temperature range, high energy density, and improved safety, making them a ...

With regards to this, an optimal dispatching model of electric-heat-hydrogen IES based on Stackelberg game

is proposed. First, an energy producer (EP) model is formulated ...

Converting low-grade heat into electricity improves energy efficiency, reduces thermal pollution, and contributes to sustainability. However, the low thermal voltage, ...

Exploring the energy transfer mechanisms and understanding the localized surface plasmon resonance (LSPR) decay pathways of plasmas are of great importance for realizing effective ...

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Synergistic design of a new PbHfO 3 -based antiferroelectric solid solution with high energy storage and large strain performances under low electric fields. J.

Long-stable solar energy capture and storage via negative thermal expansion regulated calcium-based particles Energy Advances 2023 | Journal article DOI: 10.1039/D3YA00379E

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