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To meet the miniaturization demands of next-generation electronics and electrical systems, energy storage capacitors with both high energy density and efficiency have become a research hotspot.

The utilization of the paraffin phase change material (PCM) in solar energy storage systems is limited by its low thermal conductivity, easy leakage, and insensitivity to solar energy. In the present study, the solution combustion synthesis method was applied to fabricate a porous carbon matrix that is embedded with Cu nanoparticles (Cu@C). The shape-stabilized ...

Zhongjia Hao. 1,Longying He, Lumin Shen, Jie Zhong and Pengpeng Chen . 1 School of Mechanical Engineering, Hunan Institute of Technology, Hengyang Hunan, PRC . ... hydropower generation technology, energy storage technology and graphene power generation technology. Due to the difference in power generation mode s, it is

Jinghang Wang, Xinyu Zhai, Zunrui Zhong, Xinwen Zhang, Hao Peng. Nanoencapsulated n-tetradecane phase change materials with melamine-urea-formaldehyde-TiO2 hybrid shell for cold energy storage. Colloids and Surfaces A: Physicochemical and Engineering Aspects 2022, 636, 128162.

Dielectric ceramic capacitors, with the advantages of high power density, fast charge-discharge capability, excellent fatigue endurance, and good high temperature stability, have been acknowledged to be promising candidates for solid-state pulse power systems. This review investigates the energy storage performances of linear dielectric, relaxor ferroelectric, ...

DOI: 10.1016/J.IJHEATMASSTRANSFER.2011.03.038 Corpus ID: 120999258; Enhancement of latent heat energy storage using embedded heat pipes @article{Robak2011EnhancementOL, title={Enhancement of latent heat energy storage using embedded heat pipes}, author={Christopher W. Robak and Theodore L. Bergman and Amir ...

for hydrogen storage. Introduction Hydrogen has been deemed as an ideal energy carrier due to its high energy density by weight, high abundance, and environmental friendliness. [1] However, wide utilization of hydrogen energy has been hampered by a few barriers with one of them associated with storage. Due to its low energy density

DOI: 10.1109/TSG.2020.2986333 Corpus ID: 216327071; Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model @article{Cao2020DeepRL, title={Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model}, author={Jun Cao and Daniel J. B. ...

A customizable electrochemical energy storage device is a key component for the realization of next-generation wearable and biointegrated electronics. This Perspective begins with a brief introduction of

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the drive for customizable electrochemical energy storage devices. It traces the first-decade development trajectory of the customizable electrochemical energy ...

Fibrous energy-autonomy electronics are highly desired for wearable soft electronics, human-machine interfaces, and the Internet of Things. How to effectively integrate various functional energy fibers into them and realize versatile applications is an urgent need to be fulfilled. Here, a multifunctional coaxial energy fiber has been developed toward energy ...

Electrocatalysis is considered promising in renewable energy conversion and storage, yet numerous efforts rely on catalyst design to advance catalytic activity. Herein, a hydrodynamic single-particle electrocatalysis methodology is developed by integrating collision electrochemistry and microfluidic ...

DOI: 10.1002/admt.201700182 Corpus ID: 115505814; Integration of Energy Harvesting and Electrochemical Storage Devices @article{Zhong2017IntegrationOE, title={Integration of Energy Harvesting and Electrochemical Storage Devices}, author={Yu Zhong and Xin-hui Xia and Wenjie Mai and Jiang-ping Tu and Hong Jin Fan}, journal={Advanced Materials Technologies}, ...

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Ever-increasing global energy consumption has driven the development of renewable energy technologies to reduce greenhouse gas emissions and air pollution. Battery energy storage systems (BESS) with high electrochemical performance are critical for enabling renewable yet intermittent sources of energy such as solar and wind. In recent years, ...

Cited by: Li, Yi & Yu, Hao & Li, Yi & Tang, Dong & Zhang, Guijin & Liu, Yaning, 2024. "Study on the applicability of compressed carbon dioxide energy storage in aquifers under different daily and weekly cycles," Renewable Energy, Elsevier, vol. 222(C) n, Lei & Tang, Bo & Xie, Yonghui, 2022. "Performance assessment of two compressed and liquid carbon dioxide energy storage ...

Electrostatic energy storage technology based on dielectrics is fundamental to advanced electronics and high-power electrical systems. Recently, relaxor ferroelectrics characterized by nanodomains have shown great promise as dielectrics with high energy density and high efficiency.

Electrochemical energy storage technologies are the most promising for these needs, but to meet the needs of different applications in terms of energy, power, cycle life, safety, and cost, ...

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preview. ... Hanyun Zhong, Jing Wang, Xiaowei Mu, Ping He, Haoshen Zhou. Article 103292 View PDF. Article preview.

This paper presents and analyzes a novel fossil-fuel-free trans-critical energy storage system that uses CO 2 as the working fluid in a closed loop shuttled between two saline aquifers or caverns at different depths: one a low-pressure reservoir and the other a high-pressure reservoir. Thermal energy storage and a heat pump are adopted to eliminate the need for ...

The market-dominating material BaTiO 3 is highly crucial in advanced electronics and electric power systems owing to its fast charging/discharging speed and superior cycle life. However, the low energy storage efficiency and breakdown strength hinder further device miniaturization for energy storage applications.

In the previous work, Zhang et al. assumed that the gradual addition of BKT in SBT would improve the ferroelectric properties and obtained P max of 30.48 mC/cm 2, e m of 3000 and T m of 120 °C in the 0.58KBT-0.42SBT ceramics [17].Guided by this, we designed 0.6BKT-0.4SBT with large polarization as the matrix and expected to achieve good energy storage ...

In this work, an organic/inorganic hybrid silioxyl functional group containing polymer was synthesized and applied to encapsulate PCMs, which enables an utmost 600% thermal conductivity enhancement and 93.7% light-to-thermal conversion efficiency with a latent heat of 180 J/g without leakage. A method enables the encapsulation of organic and inorganic ...

Ultrafast charge/discharge process and ultrahigh power density enable dielectrics essential components in modern electrical and electronic devices, especially in pulse power systems. However, in recent years, the energy storage performances of present dielectrics are increasingly unable to satisfy the growing demand for miniaturization and integration, which ...

Chenghao Zhong is currently a doctor in the Jilin University. ... attractive in geothermal energy production due to their high flow rates and the additional benefit of CO2 geological storage. In ...

Tuning Ferroelectric Response of Electroactive Materials by Controlling Multilayered Structures to Achieve Excellent Energy Storage Performance. Jiaming Zhong, Jiaming Zhong. Lab of Polymer Composites Engineering, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, 130022 P. R. China ... Hao Ju. Aecc South Industry ...

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As the need for new modalities of energy storage becomes increasingly important, the dielectric capacitor, due

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to its fast charging and discharging rate (~ms scale), long cycle life (>10 6), and good reliability seems poised to address a position of tomorrow"s energy needs, e.g., high power system, pulse applications, electronic devices ...

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This study examines the extent to which electricity shortage influences technical efficiency using data of 805 listed manufacturing companies in China from 2009 to 2020 collected from the CSMAR database. To achieve the objectives of this paper, first, a stochastic frontier analysis (SFA) is used to estimate the technical efficiency (TE) score of manufacturing ...

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