

Can a cascaded energy storage system improve power quality?

In this paper, a cascaded energy storage system (CESS) is investigated for energy efficiency and power quality improvement of the railway power system. First, the detailed operation principles of the CESS for multiple control... [...] It is energy-efficient and grid-friendly to utilize regenerative braking energy (RBE) in electrified railways.

Who is Junyu automobile parts company?

Junyu Automobile Parts Company is civilian-run and private share-holding. From the product development to the market, the company adopts domestic advanced automatic production. The production process is completely under the online monitoring to ensure 100%. The company has a reasonable management structure and excellent administrator to strictly

What does Junyu Zhang & Tian Gao do?

Junyu Zhang (Corresponding Author): Data Curation, Visualization, Validation, Writing - Original Draft, Review & Editing; Tian Gao: Investigation, Software, Supervision; Ling Lyu: Resources, Supervision; Longfei Wang: Software, Validation;

Flexible polymer dielectrics for capacitive energy storage that can function well at elevated temperatures are increasingly in demand for continuously advancing and miniaturizing electrical devices. However, traditional high-resistance polymer dielectrics composed of aromatic backbones have a compromised band gap (E_g) and hence suffer from low breakdown strength ...

Here we present a diamond storage medium that exploits fluorescent vacancy centres as robust storage units and provides a high storage density of $14.8 \text{ Tbit cm}^{-3}$, a short write time of 200 fs and an estimated ultralong maintenance-free lifespan on the scale of

Multi-timescale Reward-based DRL Energy Management for Regenerative Braking Energy Storage System. IEEE Transactions on Transportation Electrification ... 2025 | Journal article DOI: 10.1109/TTE.2025.3528255 Contributors: Junyu Chen; Yue Zhao; Minghao Wang; Kai Yang; Yinbo Ge; ...

With the development of flexible traction power systems (TPSs), more active and flexible power quality improvement is becoming feasible for AC electrified railways.

Here we present a diamond storage medium that exploits fluorescent vacancy centres as robust storage units and provides a high storage density of $14.8 \text{ Tbit cm}^{-3}$, a short write time of 200 fs ...

In the era of digital information, realizing efficient and durable data storage solutions is paramount. Innovations in storage capacity, data throughput, device lifespan and energy consumption are ...

In order to reduce the impact of electrified railways on the negative sequence of three-phase power grid, and consider energy-saving and economic operation of traction substations, an energy management strategy and capacity allocation scheme is proposed for the co-phase traction power supply and energy storage system in electrified railways. Firstly, with ...

High temperature dielectric polymers are the favored materials for energy storage devices under harsh-environment, e.g., electronic devices and power systems. It is widely acknowledged that the energy storage capabilities of dielectric polymers are markedly deteriorated at elevated temperature because of the exponential increased leakage current.

In this paper, a cascaded energy storage system (CESS) is investigated for energy efficiency and power quality improvement of the railway power system. First, the detailed operation...

Junyu Guan University of Science and Technology of China ... The energy diagram of Ce:YAG with trapping states, and the dynamic process ... the storage time is estimated to be 2 years. (c) The TL ...

Battery State of Health (SOH) estimation is crucial for providing valuable information for optimizing battery usage and improving battery efficiency. Considering the ...

We are one of the teams in China to start working on storage systems. Our group has produced around a hundred publications on international conferences like FAST, USENIX ATC, EuroSys, etc. as well as authoritative ...

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data storage, distinguished by a long lifespan¹¹⁻¹⁶ and low energy consumption^{2,16-19}, while also meeting practical demands, including high capacity^{3,4,8,13,15,18,20-25}, and rapid ...

High-temperature energy storage performance of traditional polymer dielectrics is insufficient due to the mutual constraints of glass transition temperature (T_g) and bandgap (E_g), making them challenging to meet the demands of harsh environmental applications this work, in conjunction with density functional calculations (DFT), we employed the trifluoromethyl (CF₃) ...

The main issue in the use of renewable energy sources is their fluctuating currents that requires an energy storage and delivery system for providing optimal output for uninterrupted H₂ ...

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Junyu Liu. University of Pittsburgh. Verified email at pitt - Homepage. ... Journal of High Energy Physics (2020) 04, 152, 2019. 118 * 2019: Spectral form factors and late time quantum chaos. J Liu. Physical Review D 98 (08), 086026, 2018. 107: 2018: Quantum simulation with hybrid tensor networks.

Two-dimensional (2D) materials are vital for the development of advanced materials in the next-generation energy conversion and storage devices. In-situ liquid-phase transmission electron microscopy (LP-TEM) acts as a powerful tool for characterizing the dynamic evolution of materials under work condition in real time and in operando.

At the same time, as a first-class network supplier of Sinopec and recognized supplier for large petrochemical enterprises such as CNOOC and PetroChina, Junyu Technology's products are distributed in all corners of China's energy industry. Junyu Technology

Guangdong Junyu Energy Storage Technology Co., Ltd. () 14802 ;;;; ...

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Hydrogen fuel is considered as one of the cleanest and most promising energy sources due to its free pollution and highly efficient energy density, which is expected to be an alternative to fossil fuels [1], [2], [3]. And green hydrogen from electrocatalytic water splitting is regarded as the friendliest and promising technology for achieving efficient utilization of ...

Liang Zhang, Junyu Battery State of Health (SOH) estimation is crucial for providing valuable information for optimizing battery usage and improving battery efficiency. ...

Fluorinated aromatic polyimide with large bandgap exhibiting superior capacitive performance at elevated temperatures Journal of Energy Storage (IF 8.9) Pub Date : 2024-03-29, DOI: 10.1016/j.est.2024.111458

We are a leading enterprise in China's new energy motive battery industry. Founded in 2005 and after more than 17 years of development, We have become a large-scale industrial group focus on environmentally friendly motive battery manufacturing for electric vehicle, integrating research and development, production and sales of new energy vehicle lithium batteries, automobile ...

LSTM is a type of recurrent neural network that can capture long-term dependencies in charging data by using storage units that can store information for extended periods of time [38]. Compared to another improved form of recurrent neural network called gated recurrent unit (GRU), LSTM has a more complex structure, enabling it to better handle ...

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