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Single-Crystal Nickel-Rich Layered-Oxide Battery Cathode Materials: Synthesis, Electrochemistry, and Intra-granular Fracture Energy Storage Materials (IF 20.2) Pub Date : 2020-01-23, DOI: ...

The design of this conductive, room-temperature self-healing hydrogel takes unique advantage of supramolecular chemistry and polymer nanoscience and shed light on ...

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Current research in automatic train operation concentrates on optimizing an energy-efficient speed profile and designing control algorithms to track the ...

However, the utilization of abundant and diverse traffic information poses a challenge in the formulation of energy-efficient strategies for current connected vehicles. To ...

To improve the carrying capacity of the distributed energy storage system, fast state of charge (SOC) balancing control strategies based on reference ...

The continuous evolution of energy consumption structures has propelled the demand for large-scale energy storage technologies to mitigate the current over-dependence ...

The propensity to form irregular and nonplanar Zn electrodeposits during repeated stripping/plating cycles is a main cause of the short lifetime of se...

Energy storage cabinet concept These cabinets function as systems that securely contain batteries, designed not only for storing energy but also for ensuring optimal functioning through ...

Zinc-ion batteries are considered a viable energy storage technology due to their superior safety, economic efficiency and environmental friendliness. Nevertheless, the ...

A hierarchical intelligent energy-saving control strategy for FCHEBs based on traffic flow prediction is proposed. The information bridge between the upper and lower-layer ...

A novel multicolored and durable Prussian blue-based dual-band electrochromic device with four switchable colors and three dual-band optical and thermal modulation modes ...

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Design and optimization of solar energy system with hydrogen energy storage and alkaline fuel cell Rong Zeng a, Xianglin Tang a, Yan Deng b, Xiaofeng Zhang c, ...

Yin et al. [15] proposed a control strategy "pre-cooling with exponential temperature set-up" to optimize the cooling charging/discharging processes of building thermal ...

The hybrid superlattice cathode combines the superior electronic conductivity of the organic components with the high-energy storage capabilities of the ?-MnO2 lattice, offering a ...

The power and energy densities of Co-Mn/CC-based supercapacitors are illustrated in the Ragone plot, which also includes data from other energy storage devices, ...

Fast and selective lithium-ion transport is crucial for advancing solid-state electrolytes in lithium metal batteries. While porous materials with tun...

Rechargeable aqueous zinc-ion batteries (ZIBs) have become one of the most potential technologies for grid-scale energy storage systems. The practical...

Hydrogen energy, as an important product of water splitting, is an ideal clean energy source. In recent years, water electrolysis has become an effective and sustainable ...

Timetable optimization is one of the effective solution methods for urban rail transit to achieve energy-saving. Previous studies on timetable optimization only focused on ...

Highlights o Films with phase change materials enable dual-band microwave and infrared stealth o Large-area preparable, low-cost, and eco-friendly films prepared by a ...

Three schemes are mainly involved in this proposed control strategy (i.e., power demand optimizer, storage load regulator and chiller load regulator) in order to optimize and ...

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