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His research interests include intelligent modeling and control of complex systems, industrial processes, energy storage systems, and smart grids. Affiliations: [School of Electrical ...

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The energy storage unit and the microgrid realize bidirectional energy flow; the PV power generation unit provides energy to the microgrid, and the EV charging unit absorbs energy from the microgrid. ... Xiao Feng: Methodology, Software, Formal analysis. Feng Li: ... IEEE Trans Smart Grid, 6 (1) (2015), pp. 147-157. View in Scopus Google ...

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Bulk COFs and COF nanosheets for electrochemical energy storage and conversion, Chem. Soc. Rev., 2020, 49, 3565-3604. 11.Hang Wang, a Shuang Zhao, a Yi Liu, a Ruxin Yao, Xiaoqi ...

Energy harvesting and storage at extreme temperatures are significant challenges for flexible wearable devices. This study innovatively developed a dynamic-bond-cross-linked spinnable azopolymer-based smart ...

Simulation and experimental results show that the energy storage of smart fabrics extends the time duration of thermal comfort by more than 300 s. In the last part, multifunctional intelligent thermoregulating fabrics are systematically discussed, such as light and heat response, ultraviolet resistance, air permeability, and water resistance.

Chinese research teams have made marked progress in superconducting quantum computing and photonics quantum computing technology, making China the only country to achieve quantum computational advantage in two mainstream technical ...

As renewable energy penetration increases, maintaining grid frequency stability becomes more challenging due to reduced system inertia. This paper proposes an analytical ...

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The optimal structure planning and energy management strategies of smart multi energy systems. Energy (2018) ... Xiao Hu et al. ... A novel grid-linked integrated energy system design combined with hydrogen energy storage for collective energy communities has been proposed and analyzed, which is driven by natural gas and solar energy to achieve ...

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The AI assistant "Xiao Heng" serves as a 24/7 personalized support agent, using site-specific data to deliver tailored insights and trigger automated responses across system ...

Smart energy storage has revolutionized portable electronics and electrical vehicles. The current smart energy storage devices have penetrated into flexible electronic markets at an unprecedented rate. Flexible batteries are ...

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Distributed fixed-time cooperative control for flywheel energy storage systems with state-of-energy constraints, Energy, 2024, 293, 30593. [2] Wei Bo, Chen Chuangui, Xiao Feng, Hong Feng. Distributed coordinated ...

The energy shortage problem cannot be ignored in the development of economics. A demand-side smart energy network is introduced in this paper, which integrates renewable energy resources, energy storage devices, and various types of load into an autonomous distributed architecture.

She was a Postdoctoral Research in SJTU from 2020 to 2022, then started her faculty career as an Assistant Researcher at College of Smart Energy in SJTU in 2023. Dr. LIU''s research is focused on advanced materials, such as nanocomposites with graphene, carbon nanotubes and 2D materials, and to nanostructured materials for various energy ...

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Sheng, WANG Faxing, ZHUANG Xiao-dong, MÃoeLLEN K, FENG Xin-liang. Vertically aligned MoS2 nanosheets patterned on electrochemically exfoliated graphene for high-performance lithium and sodium storage [J]. Advanced Energy Materials, 2018, 8: 1702254.

A research team has successfully designed a 66-qubit programmable superconducting quantum computing system named Zuchongzhi 2.1, significantly enhancing the quantum computational advantage.

Simulation and experimental results show that the energy storage of smart fabrics extends the time duration of thermal comfort by more than 300 s. In the last part, ...

With the rapid development of new energy electric vehicles and smart grids, the demand for batteries is increasing. The battery management system (BMS) plays a crucial role in the battery-powered energy storage system. This paper presents a systematic review of the most commonly used battery modeling and state estimation approaches for BMSs.

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Smart energy storage has revolutionized portable electronics and electrical vehicles. The current smart energy storage devices have penetrated into flexible electronic markets at an unprecedented ...

Director of Research Institute for Smart Energy, Chair Professor of Building Energy and Automation, and Otto Poon Charitable Foundation Professor in Smart Buildings ... Prof. Fu XIAO. Associate Dean of FCE, ADoRISE & Professor ...

The integrated electric vehicle charging station (EVCS) with photovoltaic (PV) and battery energy storage system (BESS) has attracted increasing attention [1]. This integrated charging station could be greatly helpful for reducing the EV"s electricity demand for the main grid [2], restraining the fluctuation and uncertainty of PV power generation [3], and consequently ...

Porous carbons hold broad application prospects in the domains of electrochemical energy storage devices and sensors. In this study, porous carbon derived from sodium alginate-encapsulated ZIF-8 (SA/ZIF-8-C) was successfully prepared by blending ZIF-8 particles with sodium alginate, forming hydrogel beads in the presence of divalent metal ions, ...

Integrating the PV hybrid model could achieve a superior capacity configuration. Optimal charging scheduling method is integrated to reduce PV/BESS design capacity. ...

Sodium-ion batteries (NIBs) has been considered as the most promising next generation low cost and

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environmentally friendly electrochemical energy storage system for smart-grid applications. To meet the requirements of practical application of NIBs, development the advanced carbon-based anode with both ultra-long cycle life and high initial ...

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