



Fudan energy storage device

1. Introduction Flexible energy storage devices have been widely explored to satisfy the next-generation electronic devices that are thin, lightweight, flexible and even stretchable [1-4]. ...

Researchers at Fudan University have made a significant advancement in integrated circuit technology. The team led by Zhou Peng and Liu Chunsen has developed "PoX," a picosecond flash memory ...

Recently, their potential applications have spanned from bio-imaging, fluorescent probing and catalysis, to energy storage fields, in particular as materials in the key components of electrochemical energy storage devices.

This review summarizes recent advances toward the development of carbon-material-based stretchable energy storage devices. An overview of common carbon materials' fundamental ...

The exponential growth of intermittent renewable energy sources, such as wind and solar, and the global energy efficiency decarbonization campaign, are mainly driving ...

Design and fabrication of novel electronic materials by developing the customized synthesis and assembly methods for fiber devices; Establishment of new theory with metal-backed ...

Abstract The demand for high-performance devices that are used in electrochemical energy conversion and storage has increased rapidly. Tremendous efforts, such as adopting new ...

Xin Wang, Ximeng Lv, Gengfeng Zheng*, Yongzhu Fu*, "Room-temperature electrochemical Cl⁻-to-fuel conversion: Perspectives from material engineering and device design", Energy Chem, ...

However, sluggish cathode kinetics of CO₂ reduction/evolution result in low round-trip efficiency and poor cycling stability of the fabricated energy-storage devices.

Here, the key advancements related to fiber-shaped energy storage devices are reviewed, including the synthesis of materials, the design of structures, and the optimization of properties for the most ...

He joined the Laboratory of Advanced Materials of Fudan University in 2017. He mainly engaged in the preparation and industrialization of flexible fibrous energy storage materials.

Energy storage devices are arousing increasing interest due to their key role in next-generation electronics. Integration is widely explored as a general and effective strategy aiming at high ...



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Topological spin textures are proposed as an energy-storage concept, utilizing the free energy associated with metastable magnetic configurations.

ge device. Three fibre electrodes could be twisted together to produce a 1D energy storage device that can function as both a super-capacitor and lithium-ion battery by sharing a hybrid fibre...

Cheap and Environmentally-Benign Electrochemical Energy Storage and Conversion Devices based on AlI₃ Electrolytes. Bofei Xue, Zhengwen Fu*, Hong Li,* Xizhe Liu, Sunchao Cheng, ...

Researchers from Shanghai-based Fudan University have developed a picosecond-level flash memory device with an unprecedented program speed of 400 picoseconds, equivalent to operating 25 billion...

Abstract The use of cardiovascular implantable electronic devices (CIEDs) has proved to be the most successful device-based therapy to reduce morbidity and mortality of cardiovascular ...

The research work of Wang Group at Fudan University focuses on polymer electrolytes and advanced materials for energy storage and conversion devices.

Overview of fiber-shaped energy storage devices: From ... Given the rapid progress in flexible wearable electronics, fiber-shaped energy storage devices (FESDs) with the unique ...

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In this Essay, applications of mesoporous materials are reviewed in electrochemical energy conversion and storage devices. The synthesis, structure, and properties of mesoporous materials and their ...

A research team at Fudan University has built the fastest semiconductor storage device ever reported, a non-volatile flash memory dubbed "PoX" that programs a single bit in 400 picoseconds ...

Researchers from Shanghai-based Fudan University have developed a picosecond-level flash memory device with an unprecedented program speed of 400 ...

To efficiently utilize solar energy and store it in wearable electronic devices, solar cells and energy storage devices are integrated together in a highly compact 1D configuration.

Energy storage/conversion devices, including Li-ion batteries, supercapacitor, Li-sulfur batteries Li-air batteries and wearable and flexible energy storage devices ... First-class Scholarship of ...

Advances in Supercapacitor and Supercapattery: Innovations in Energy Storage Devices provides a deep insight into energy storage systems and their applications. The first two chapters cover ...



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