

Flexible and wearable electronics have recently experienced explosive growth, and have attracted tremendous attention from both industry and academia. It is believed that these electronics will ...

Thermal-integrated pumped thermal electricity storage (TI-PTES) could realize efficient energy storage for fluctuating and intermittent renewable energy. However, the ...

With the increasing demand for wearable electronics (such as smartwatch equipment, wearable health monitoring systems, and human-robot interface units), flexible energy storage systems ...

The rapid consumption of fossil fuels in the world has led to the emission of greenhouse gases, environmental pollution, and energy shortage. 1,2 It is widely acknowledged that sustainable ...

1 INTRODUCTION. Rechargeable batteries have popularized in smart electrical energy storage in view of energy density, power density, cyclability, and technical maturity. 1-5 A great success ...

Flexible devices, such as flexible electronic devices and flexible energy storage devices, have attracted a significant amount of attention in recent years for their potential applications in modern human lives. The development of flexible ...

Renewable energy generation equipment and electric energy storage devices are the flexible resources on the supply side of the BEEFS, which can not only provide power to ...

Recently, great interest has been aroused in flexible/bendable electronic equipment such as rollup displays and wearable devices. As flexible energy conversion and energy storage units with high ...

Tolerance in bending into a certain curvature is the major mechanical deformation characteristic of flexible energy storage devices. Thus far, several bending characterization parameters and various mechanical methods have been ...

Flexible energy-storage devices are attracting increasing attention as they show unique promising advantages, such as flexibility, shape diversity, light weight, and so on; these ...

Electrospun Nanofibers for New Generation Flexible Energy Storage Yonghui Yan, Xiangye Liu*, Jing Yan, Cao Guan*, and John Wang 1. Introduction The rapid rise of flexible electronics is ...

Wearable electronics are expected to be light, durable, flexible, and comfortable. Many fibrous, planar, and tridimensional structures have been designed to realize flexible ...

In recent years, the growing demand for increasingly advanced wearable electronic gadgets has been commonly observed. Modern society is constantly expecting a noticeable development in terms of smart functions, ...

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