

For sustainable living and smart cities, the decarbonization of society is a central aim of energy research. Clean energy plays a key role in achieving global net-zero targets due ...

In this review, the opportunities and challenges of using protein-based materials for high-performance energy storage devices are discussed. Recent developments of directly using ...

M& S tools can help investigate possible hazardous scenarios arising from thermal runaway and propagation or electrolyte leakage from a single or a group of damaged cells and accumulation of toxic, conductive, or ...

1 Introduction. The advance of artificial intelligence is very likely to trigger a new industrial revolution in the foreseeable future. [1-3] Recently, the ever-growing market of smart ...

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 ...

supercapacitor, superconducting magnetic storage), thermal (e.g., latent phase change material), and chemical (e.g., fuel cells) types, thanks to the success of rechargeable batteries. Figure 1 ...

Thermal energy storage (TES) techniques are classified into thermochemical energy storage, sensible heat storage, and latent heat storage (LHS). [ 1 - 3 ] Comparatively, LHS using phase ...

This article proposes a new type of leakage current protection device for distribution networks. The current measurement is based on the principle of fluxgate technology, which can measure ...

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1 Introduction. The advance of artificial intelligence is very likely to trigger a new industrial revolution in the foreseeable future. [1-3] Recently, the ever-growing market of smart electronics is imposing a strong demand for the development ...

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