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Title: Multifunctional energy storage lighting device

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A typical modern Battery Energy Storage System (BESS) is comprised of lithium-ion battery modules, bi-directional power converters, step-up transformers, and associated switchgear ...

Herein, we demonstrate an efficient and flexible bifunctional dual-band electrochromic device which not only shows excellent spectral-selective electrochromic performance with a high ...

Here we report the realisation of a fully operational 46-inch smart textile lighting/display system consisting of RGB fibrous LEDs coupled with multifunctional fibre devices that are capable of ...

A multifunctional portable energy storage device, particularly, an energy storage device with functions of electric quantity storage, AC and DC charging, electric quantity detection,...

Multifunctional devices integrated with electrochromism and energy storage or energy production functions are attractive because these devices can be used as an effective approach to address the ...

Can multifunctional devices store energy and block the transmission of light? Therefore, the results suggest a new design strategy for materials to realize the coincident application of multifunctional ...

Herein, a multifunctional electrochromic device integrated with variable optical, thermal management and energy storage is realized by preparing nanowire-structured coral-like PANI films on a flexible ...

A high-performance electrochromic-energy storage device (EESD) is developed, which successfully realizes the multifunctional combination of electrochromism and energy storage by ...

Here, authors propose an integration between luminescent solar concentrators and electrochromic supercapacitors capable of photovoltaic ...



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