

Multifunctional energy storage lighting device

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 ...

Current state-of-art examples of these smart multifunctional energy devices, pertinent to materials, fabrication strategies, and performances, are highlighted. In addition, current challenges ...

Electrochromic devices that assimilate these energy functionalities, along with bias-induced color modulation, are very promising as they not only help in energy conversion and storage ...

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

Among various EESDs, advanced flexible or stretchable devices offer better functionality than conventional rigid glass-based devices and are easily integrated with any curved surface.

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 ...

Our mobile emergency multi-functional energy storage system go beyond lighting alone. Featuring a versatile output port, you can conveniently charge and power your electric equipment.

A multifunctional solar light combines traditional lighting capability with additional features that enhance its utility in various situations. These lights typically incorporate solar panels for energy ...

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

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 ...



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