

Multifunctional energy storage lighting device





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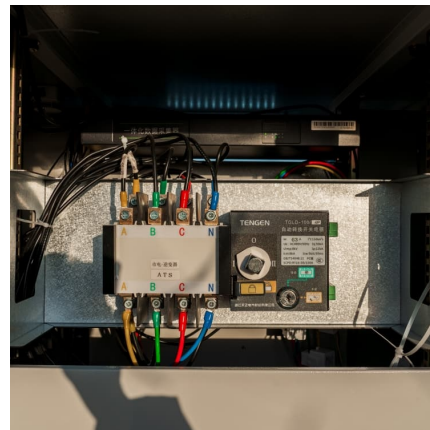


CN212085097U

The utility model relates to an energy storage equipment technical field especially relates to a multi-functional energy storage system. The multifunctional energy storage system comprises ...

Multifunctional energy storage and photoluminescence of Er ...

The multifunctional ceramic, while maintaining an excellent recoverable energy storage density ($W_{rec} = 2.03 \text{ J/cm}^3$) and energy storage efficiency ($\eta = 75.67\%$), ...



Multifunctional electrochromic energy storage devices ...

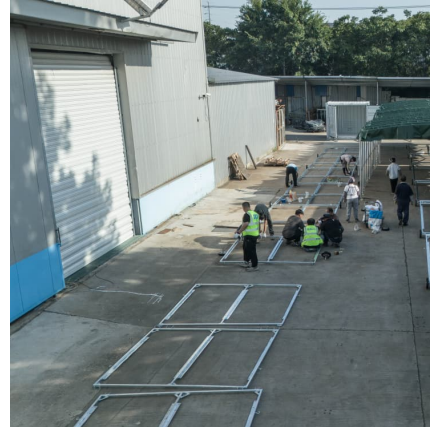
With the advent of multifunctional devices with electrochromic (EC) behavior and electrochemical energy storage, complementary design of ...

CN114884195A

The invention provides a multifunctional mobile energy storage charging device, which belongs to the field of outdoor energy storage and comprises a solar panel assembly; the solar



panel ...



Multifunctional Nanocomposites for Coupled Photovoltaic and

Remarkably, the device exhibited self-charging behavior under light exposure and retained 91.3% capacity over 1,000 cycles. This research introduces a unique platform that ...

CN116928026A

The invention provides a marine multifunctional energy storage device system and a method, which mainly comprise the following steps: the system comprises a gas-liquid heat exchanger, ...



[multifunctional energy storage device](#)

Multifunctional devices based on planar microsupercapacitors: With the boom of portable, wearable, and implantable smart electronics in the last decade, the demand for multifunctional ...



[Next-Generation Materials for Multifunctional ...](#)

This comprehensive study examines the development and future potential of 2D MXene-based hybrid architectures for various multifunctional ...



[Structural composite energy storage devices -- a review](#)

Structural composite energy storage devices (SCESDs) which enable both structural mechanical load bearing (sufficient stiffness and strength) and electrochemical ...

[Multifunctional Energy Storage and Conversion Devices](#)

Abstract Multifunctional energy storage and conversion devices that incorporate novel features and functions in intelligent and interactive modes, represent a radical advance in ...



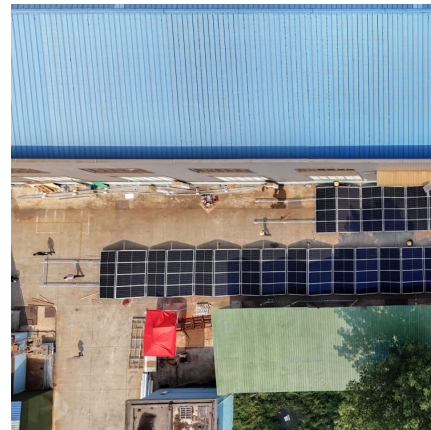
Integrated device of luminescent solar concentrators ...

The integrated device capable of photovoltaic conversion, energy storage, and electrochromism is a promising alternative for smart windows.



Multifunctional devices based on planar microsupercapacitors: ...

With the boom of portable, wearable, and implantable smart electronics in the last decade, the demand for multifunctional microscale electrochemical energy storage devices has increased. ...



CN118137636A

The application discloses a multifunctional energy storage device which comprises at least one first module and at least one second module, wherein the first module and the second module ...

[Multifunctional energy-saving lighting device](#)

Embodiment [0039] see figure 1, a multifunctional energy-saving lighting device, comprising a lighting lamp body 1 and a charging module 2 . The side of the illuminating lamp body 1 that ...





Principle of multifunctional energy storage lighting device

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 ...

Recent advance in new-generation integrated devices for energy

This suggests that it is urgent to develop the fine self-powered systems to meet the growing demand of energy for long-term use in different environment scenes. Developing ...



fchem-2022-1001425 1..9

While not affecting electrochemical performance of energy storage devices, integrating multifunctional properties such as electrochromic functions into energy storage devices can ...

Multifunctional energy storage devices

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 Colloidal Quantum Dots-Based Light-Emitting Devices ...

1 ??· Colloidal quantum dots (CQDs) have attracted significant attention in optoelectronics due to their size-tunable bandgap, high photoluminescence quantum yield, and solution ...



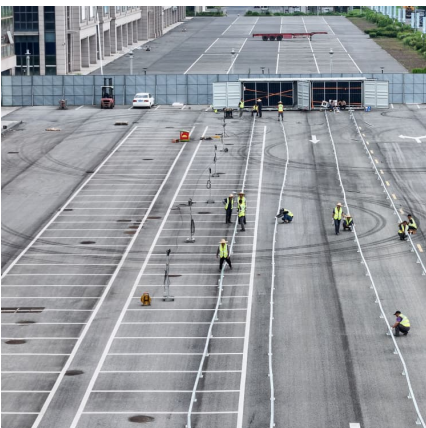
Multifunctional Sustainable Materials for Energy Storage

Sustainable energy storage plays a key role in the circular economy, underpinned by a transition to renewable energies and sustainable materials and devices. ...



[TRANSSION Multifunctional Energy Storage Device](#)

To overcome these inconveniences in people's daily life, this multifunctional energy storage device can convert solar energy into electrical energy and ...





Roadmap for electrochromic smart devices: From materials ...

Ultimately, we review the recent progress on multifunctional electrochromic devices, such as flexible and wearable electrochromic devices, electrochromic energy storage ...



A light-weight, thin-thickness, flexible multifunctional ...

Herein, the light-weight, thin-thickness, flexible multifunctional electrochromic device integrated with variable optical, thermal management and energy storage has been ...

Integration: An Effective Strategy to Develop Multifunctional Energy

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 ...



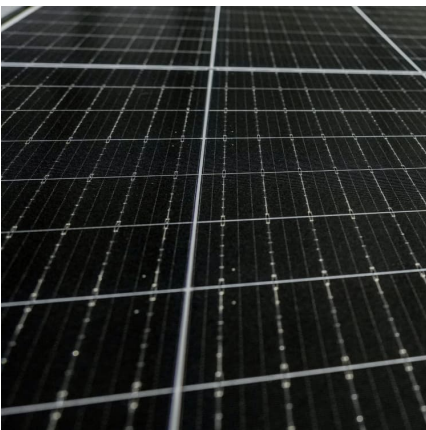
Advancements in Electrochromic Technology for Multifunctional ...

Electrochromic devices have progressed from single-function systems to multifunctional devices by integrating features such as energy harvesting (e.g., nanogenerators ...



Multifunctional Electrochromic Devices for Energy ...

A lot of development in terms of science and technology has taken place to address the increasing energy needs. This demand is expected ...



CN115833338A

The invention discloses an indoor multifunctional energy storage power supply with an emergency lighting function, which comprises a control box, wherein an energy storage power supply is ...

Multifunctional MXene inks for printed electrochemical ...

The most extensively studied of the many applications for MXene-based devices is electrochemical energy storage (EES). Importantly, MXene inks allow quick ...





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