

A flexible laterally-configured electrochromic supercapacitor was designed and fabricated through a fully-solution process. The laterally-configured transparent conductive ...

Flexible, limber, pliant refer to that which bends easily. Flexible refers to that which is capable of being bent and adds sometimes the idea of compressibility or expansibility: a flexible piece of ...

These MNW electrodes are crucial for flexible energy storage devices, antistatic applications, and FTCE (Flexible and Transparent Conductive Electrode) due to its low sheet ...

Energy storage devices that offer high energy storage capacity along with high electro-optical and mechanical performance is still a great challenge as a power source for ...

Flexible transparent electrochemical energy conversion and storage devices (FT-EECSs), with enduring mechanical flexibility, outstanding optical transmittance, ...

Flexibility involves being present in the moment and responding in ways that serve your values. Learn more about psychological flexibility and why it's important.

Herein, we report a smart, self-powered, flexible electrochromic system with self-regulating features and state-of-the-art stability and flexibility. The flexible ECD (FECD) ...

Flexible transparent conductive electrodes (FTCEs) are essential components in emerging optoelectronics, including flexible displays, smart glasses/windows, organic solar ...

A flexible transparent molybdenum trioxide nanopaper, assembled via ultralong molybdenum trioxide nanobelts, displays an excellent average transmittance of 90% in the ...

With the emergence and rapid development of smart wearable electronics, urgent demands for flexible and stretchable transparent conductive electrodes (TCEs) have ...

This paves the way for developing high-performance current collectors and thus flexible transparent energy storage devices, and their general applicability opens up ...

The ever-growing pressure from the energy crisis and environmental pollution has promoted the development of efficient multifunctional electric devices. The energy storage ...

Flexible electrochromic energy storage devices (FECESDs) for powering flexible electronics have attracted considerable attention. Silver nanowires (AgNWs) are one kind of the most promising ...

The results present the significant potential of transparent hybrid electrodes for efficient energy storage and electrochromicity with stable transmittance changes, even during ...

Although the suggested transparent flexible energy devices show substantial potential as energy storage devices for special electronic applications, they still have some ...

Abstract Flexible electrochromic energy storage (EES) systems have attracted tremendous attention because of their combined advantages of color-changing and energy-storing. ...

This study opens up a new avenue for manufacturing flexible and transparent film electrodes with both high transmittance and area capacitance, and reveals that flexible V 2 ...

With the development of wearable electronic equipment, the demand for flexible supercapacitors as energy storage devices is increasing [[5], [6], [7]]. The various ...

To overcome the limitations associated with the use of flexible display devices due to the durability problems of thin-film electrodes based on metal or TCO, the development ...

Bifunctional flexible electrochromic energy storage devices based on silver nanowire flexible transparent electrodes December 2022 International Journal of Extreme ...

Highly stable flexible transparent electrode via rapid electrodeposition coating of Ag-Au alloy on copper nanowires for bifunctional electrochromic and supercapacitor device

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Flexible transparent electrode energy storage

