Application of transparent flexible energy storage devices

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With the rapid development of multi-functional flexible electronic products and people"s urgent demand for multiple application scenarios of transparent energy storage devices, higher requirements have ...

This review critically synthesizes recent advancements in flexible energy storage devices (FESDs), emphasizing cutting-edge developments from 2022 to 2025.

The inclusion of various materials in this review shows that various transparent and electrochromic materials have significant advantages for the development of flexible and stretchable ...

Energy storage device, like lithium-ion battery and super capacitor, also require strict flexibility and transparency as the energy supply equipment of electronic devices. Here, we ...

Hence, this review is focused on research attempts to shift energy storage materials toward sustainable and flexible components.

This review is intended to provide strategies for the design of components in flexible energy storage devices (electrode materials, gel electrolytes, and separators) with the aim of developing energy ...

This review attempts to critically review the state of the art with respect to materials of electrodes and electrolyte, the device structure, and the corresponding fabrication techniques as well as applications ...

In this review, the application scenarios of FESDs are introduced and the main representative devices applied in disparate fields are summarized first. More specifically, it focuses ...

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