

# Flexible electrodes and energy storage devices

What are flexible aqueous energy storage devices for flexible electronics?

In this review, we focus on pioneering works of flexible aqueous energy storage devices for flexible electronics, covering the material designs for essential components of the energy devices such as active materials, current collectors, aqueous electrolyte, and separator membranes.

Can paper-based electrodes be used for flexible energy storage devices?

This review summarizes recent advances in the synthesis of paper-based electrodes, including paper-supported electrodes and paper-like electrodes. Their structural features, electrochemical performances and implementation as electrodes for flexible energy storage devices including supercapacitors and batteries are highlighted and compared.

Are flexible electrodes a key component of energy storage systems?

The rapid development of wearable, portable, and foldable electronics has intensified the demand for flexible energy storage systems with high performance and mechanical resilience. Flexible electrodes, as core components of such systems, have garnered significant attention due to their potential to combine Recent Review Articles

What are flexible electrode materials?

New materials. At present, work on flexible electrode materials mainly focuses on organic conductors due to their intrinsic flexibility. This includes carbon based materials and conducting polymers or composites containing them.

Are transparent and electrochromic materials suitable for flexible and stretchable energy storage devices?

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 electrochromic energy storage devices.

What are flexible energy storage devices based on aqueous electrolyte?

Flexible energy storage devices based on an aqueous electrolyte, alternative battery chemistry, is thought to be a promising power source for such flexible electronics. Their salient features pose high safety, low manufacturing cost, and unprecedented electrochemical performance.



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