

# Multifunctional portable energy storage





## Overview

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Electrochromic energy storage devices (EESDs) including electrochromic supercapacitors (ESC) and electrochromic batteries (ECB) have received significant recent attention in wearables, smart wi.

What are flexible and stretchable electrochromic energy storage devices?

Such flexible and stretchable electrochromic energy storage devices have multiple functionalities and could be potentially implemented for wearables, smart building, electric vehicles, and smart display.

What are electrochromic energy storage devices (eesds)?

Electrochromic energy storage devices (EESDs) including electrochromic supercapacitors (ESC) and electrochromic batteries (ECB) have received significant recent attention in wearables, smart windows, and colour-changing sunglasses due to their multi-functionality, including colour variation under various charge densities.

Is research in New energy storage devices a good idea?

With the focus on the net zero target , and significant development in wearable and portable electronic devices, research in new energy storage devices is highly propitious.

Is EESD a promising candidate for the next generation energy storage system?

As compared to traditional batteries and SCs, the EESD has been considered a promising candidate for the next generation of energy storage systems due to their multi-functionality such as (i) electrochromic properties (ii) energy storage capabilities and (iii) inherent energy storage level indication , , , .



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