

Are silicon nanowires a promising material for energy conversion & storage?

Due to their unique structural, electrical, optical, and thermal properties, silicon nanowires (SiNWs) are attracting immense interest as a promising material for advanced energy conversion and storage applications.

Why do we need flexible energy storage devices?

To achieve complete and independent wearable devices, it is vital to develop flexible energy storage devices. New-generation flexible electronic devices require flexible and reliable power sources with high energy density, long cycle life, excellent rate capability, and compatible electrolytes and separators.

What is integrated wire shaped energy system?

The emerging integrated wire shaped energy system, for the simultaneous realization of energy conversion and energy storage, as well as the combination of energy storage with other electronic devices, will be specially highlighted.

What are fiber energy storage devices containing solid-state supercapacitors and lithium-ion batteries?

In this review, fiber electrodes and flexible fiber energy storage devices containing solid-state supercapacitors (SCs) and lithium-ion batteries (LIBs) are carefully summarized with particular emphasis on their electrode fabrication, structure design and flexibility.

Are advanced energy conversion and storage devices based on SiNWs competitive?

Presently, advanced energy conversion and storage devices based on SiNWs are under active investigation, and emerging as competitive alternatives to their conventional counterparts

Are flexible wearable supercapacitors the future of energy storage?

In recent years, flexible wearable supercapacitors have emerged as a new research trend [2, 3], making supercapacitors the most promising energy-storage devices. Currently, flexible wearable technology is rapidly developing, and numerous flexible wearable devices have emerged, enriching people's daily lives and improving work efficiency.

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More information: Sandra Hansen et al. Corset-like solid electrolyte interface for fast charging of silicon wire anodes, Journal of Power Sources (2018). DOI: 10.1016/j.jpowsour.2018.01.085

conventional rechargeable batteries contain only approximately 10-15 percent silicon. To pursue this goal, the joint research project "Development and characterisation of large, porous Si film ...

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A material that has a small hole in it through which water, liquid, vapors, and gas can be passed and provide large surface to volume ratio in the order of $500 \text{ m}^2/\text{cm}^3$ called ...

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