

Mar 14, 2025 Flexible zinc-ion batteries (FZIBs) are ideal power sources for wearable devices, but their low volumetric energy densities have been a ?

Jun 15, 2024 Battery systems with core-shell structures have attracted great interest due to their unique structure. Core-shell structures allow optimization of battery performance by adjusting ?

Jan 1, 2023 In situ generated composite gel polymer electrolyte with crosslinking structure for dendrite-free and high-performance sodium metal batteries

Dec 21, 2021 Ionic liquids (ILs) are molten salts that are entirely composed of ions and have melting temperatures below 100 °C. When immobilized ?

Mar 24, 2025 In this article, we'll compare between solid state battery vs semi solid state battery their structure, performance, safety, and applications to see how they shape the future of ?

Feb 1, 2025 Electric energy serves as the cornerstone of modern life, and the development of society is profoundly affected by battery technology. Balancing specific capacity with safety is ?

Feb 27, 2022 Abstract Sodium ion batteries (NIBs) based on earth-abundant materials offer efficient, safe, and environmentally sustainable ?

Mar 31, 2025 Special Issue Information Dear Colleagues, This Special Issue on "Gel Polymer Electrolytes for Energy Storage" is dedicated to recent developments from theoretical and ?

The internal structure of solar gel batteries is optimized to increase energy storage capacity and provide longer-term energy. Therefore, it offers a very suitable energy storage solution for ?

May 5, 2023 Realizing the important role of gel electrolytes in the emerging broad fields of energy, electronics, life sciences, etc., this special ?

6 days ago The rapid evolution of flexible wearable electronics has intensified the demand for energy storage systems that synergistically combine mechanical compliance with high ?

Jun 1, 2025 Despite their success, the demand for batteries with higher energy densities remains

strong, driving the urgent need for next-generation secondary batteries capable of ?

Jan 1, 2021 Al-air batteries (AABs) are a great option for outdoor wearable electronics due to their high theoretical energy density (8100 Wh kg⁻¹), huge industrial reserves and easy ?

Gel polymer electrolytes (GPEs) offer a safer and more adaptable alternative to conventional liquid electrolytes, enabling the design of flexible energy storage systems (ESS). Combining ?

Feb 2, 2024 Lead Acid Battery has always been one of Mk Energy's core battery series. As our technology advances and users' needs diversify, ?

Mar 12, 2025 We report a bioinspired gel polymer electrolyte that enables high-energy-density Li metal batteries to work stably in a wide temperature range from -30 to 80 °C.

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