

Title: Electrolytes for energy storage devices

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Discover the importance of electrolytes in energy storage systems, including their function, types, and impact on performance.

In recent years, lignocellulose-mediated gel polymer electrolytes (L-GPEs) have gained increasing attention as flexible electrolytes for high-performance energy storage devices (ESDs) due ...

In this review, we have introduced the recent progress in research and practice of various electrochemical energy storage (EES) devices from the perspective of ...

The book offers detailed progress and challenges in energy ...

In this review article, three main types of solid electrolytes (i.e., inorganic, polymer, and composite electrolytes) are first described and ...

The application of ILs to energy storage devices has been continuously conducted, and it is expected to continue in the future to improve the electrochemical performance and stability of energy storage ...

In this paper, the physicochemical and electrochemical properties of lithium-ion batteries and supercapacitors using ionic liquids (ILs) as an ...

This review delineates the evolutionary trajectory of electrolyte development across three dimensions: transitioning from liquid to solid, from rigid to flexible, and from organic to aqueous ...

We explored the use of liquefied gas electrolyte systems exclusively composed of solvents that are gaseous at room temperature and atmospheric ...

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