

Application of Solid Polymer Electrolytes for Solid-State Sodium Batteries

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Abstract. Rechargeable sodium-ion batteries have become more attractive because of its advantages such as abundant sodium resources and lower costs compared to traditional lithium-ion batteries. In keeping with the future development of high-capacity secondary batteries, solid-state batteries, which use solid electrolytes instead of liquid organic electrolytes, are expected to overcome the challenges of traditional lithium-ion batteries in terms of energy density, cycle life and safety. Among various electrolytes, polymer matrices have great potential and application in flexible solid-state sodium batteries, as they can form large molecular structures with sodium salts, exhibit low flammability and excellent flexibility. But there are still challenges including low ionic conductivity, poor wettability, electrode/electrolyte interface stability and compatibility, which can limit battery performance and hinder practical applications. The preparation, benefits, and drawbacks of polymer-based solid-state sodium batteries (SSBs) are examined in this article based on an overview of solid electrolytes from the perspectives of polymer-based sodium battery materials, solid polymer electrolytes, and composition polymer electrolytes. Finally, it provides insights into the challenges and potential developments for polymer-based solid-state sodium batteries in the future.

1 Introduction

As the depletion of conventional fossil fuels, advanced energy storage systems (ESSs) will be a viable option for reducing emissions and resolving the existing issue of environmental pollution. Due to its high energy ratio, high dependability, and environmental friendliness, electrochemical energy storage devices, one of the representations of clean energy, are widely utilized in portable electronic items and electric cars. Lithium-ion batteries (LIBs) have dominated the industry for the past few decades, however as the market need increases, LIBs will experience escalating costs and resource problems. The traditional LIBs will inevitably experience side reactions during the charge and discharge process because they use an organic liquid electrolyte. Additionally, the battery cycle process of electrolyte volatilization, leakage, and other phenomena will result in an irreversible attenuation of the battery capacity, which will affect the service life of the battery. A different battery that is less expensive and has more resource reserves is therefore required at this time.

Rechargeable Na-ion batteries (NIBs) are appropriate for widespread deployment because they have a low cost and abundant supply of sodium resources, and their electrochemical energy storage mechanism is comparable to that of LIBs. Sodium metal has the qualities like high-specific capacity and an excellently low standard reduction potential. However, there are still many issues, particularly in liquid electrolyte batteries

where uneven deposition during charging results in dendrite sodium growth [1-3]. It is currently challenging to improve the energy and power density of liquid electrolyte sodium ion batteries at the moment, because the formation of dendrites has the ability to pierce the battery diaphragm and result in a short circuit.

Using a new electrolytic medium in place of a liquid electrolyte is a better way to stop dendrite formation. Another option is provided by solid-state batteries (SSBs), which have better energy and power densities and enhanced safety. Negative electrodes, positive electrodes, electrolytes, and diaphragm materials typically make up NIBs employing solid electrolytes (Fig. 1). The solid electrolyte can be used as both electrolyte and separator [4, 5]. We will provide an overview of the electrode materials used in SSBs in this review. Section 3 provides a thorough analysis of polymer-based sodium-ion SSEs, including information on the ionic conducting mechanism. Section 4 describes the stability of interface, safety, energy and power density, and future prospects of sodium-based SSBs.



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Wolfgang Guggemos

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