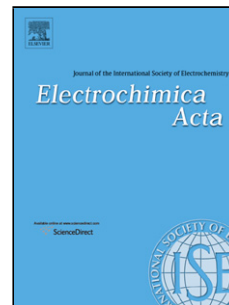


## Accepted Manuscript

Title: A porous gel-type composite membrane reinforced by nonwoven: promising polymer electrolyte with high performance for sodium ion batteries

Author: Yusong Zhu Yaqiong Yang Lijun Fu Yuping Wu



PII: S0013-4686(16)32576-2  
DOI: <http://dx.doi.org/doi:10.1016/j.electacta.2016.12.030>  
Reference: EA 28502

To appear in: *Electrochimica Acta*

Received date: 27-8-2016  
Revised date: 5-12-2016  
Accepted date: 7-12-2016

Please cite this article as: Yusong Zhu, Yaqiong Yang, Lijun Fu, Yuping Wu, A porous gel-type composite membrane reinforced by nonwoven: promising polymer electrolyte with high performance for sodium ion batteries, *Electrochimica Acta* <http://dx.doi.org/10.1016/j.electacta.2016.12.030>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- A porous composite gel electrolyte reinforced by PP nonwoven for SIBs is reported.
- Ionic conductivity of the GPE at r.t. is 4 times higher than commercial separator.
- The stress of the GPE arrives almost the same level with Celgard 2730 separator.
- The gel polymer electrolyte shows good electrolyte retention even at 110 °C.
- The electrochemical reversibility for  $\text{Na}_4\text{Mn}_9\text{O}_8$  has been confirmed by using the GPE.

Download English Version:

<https://daneshyari.com/en/article/4767561>

Download Persian Version:

<https://daneshyari.com/article/4767561>

[Daneshyari.com](https://daneshyari.com)