Electronic Supplementary Information

**Gel Electrolytes Based on an Ether-Abundant Polymeric Framework for High-Rate and Long-Cycle-Life Lithium Ion Batteries**

Li-Yu Huang,¹ You-Chao Shih,¹ Shih-Hong Wang,¹ Ping-Lin Kuo,¹ and Hsisheng Teng¹,²,*

¹Department of Chemical Engineering and Research Center for Energy Technology and Strategy, National Cheng Kung University, Tainan 70101, Taiwan

²Center for Micro/Nano Science and Technology, National Cheng Kung University, Tainan 70101, Taiwan

*To whom correspondence should be addressed. E-mail: hteng@mail.ncku.edu.tw, Tel: 886-6-2385371, Fax:886-6-2344496

Electronic Supplementary Information for:

Nyquist impedance plots of GPE and LE inserted between two stainless-steel electrodes at various temperatures.
Fig. S1. Nyquist impedance plots of (a) GPE and (b) LE inserted between two stainless-steel electrodes with a frequency range of 0.1 Hz to 1 MHz at 0 V and temperatures of -20–80 °C. The thicknesses of the GPE and LE films were 100 and 12 μm, respectively.