

Supporting information

Cation effect on ionic liquid-involved polymer electrolyte for solid-state lithium metal batteries

Xiujing Lin, Xinshuang Liu, Shiyuan Xu, Zeyu Liu, Cuie Zhao, Ruiqing Liu, Pan Li,
Xiaomiao Feng^{*}, Yanwen Ma^{*}

^{*} Corresponding author. Tel.: +86 25 8586 6533; Tel: +86 25 8586 6396
E-mail address: iamywma@njupt.edu.cn,

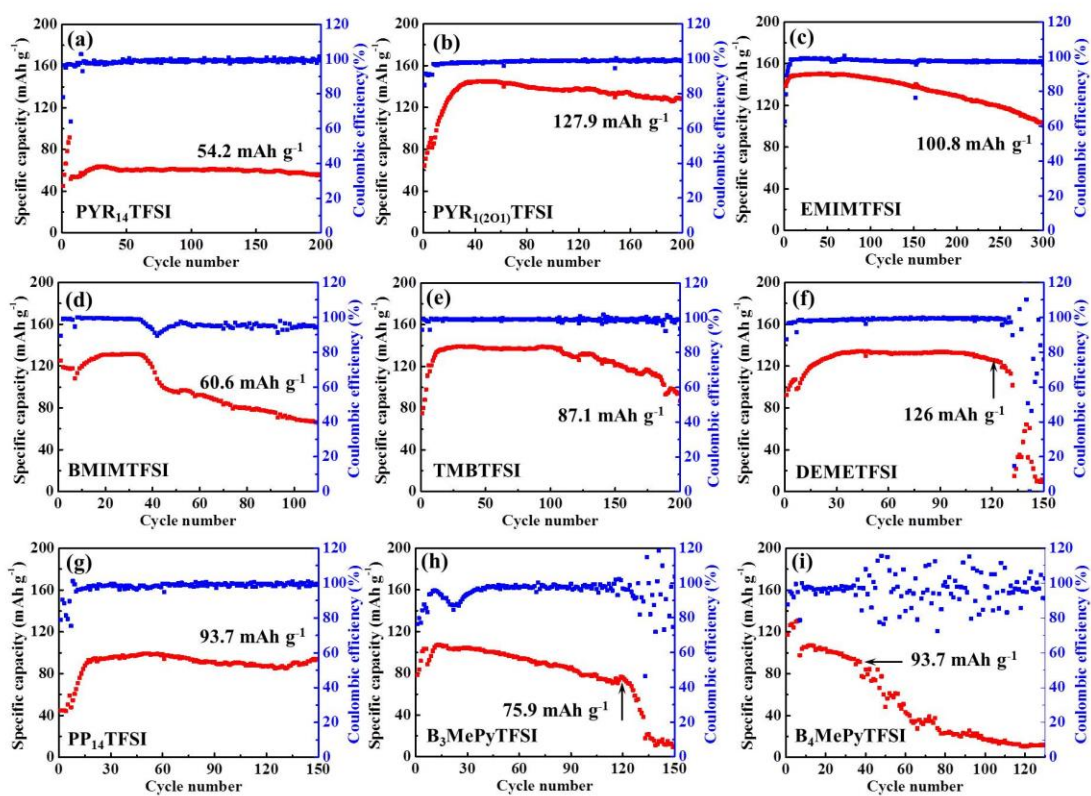


Fig. S1. The electrochemical performance of liquid Li/LFP batteries with ionic liquid-based electrolytes.

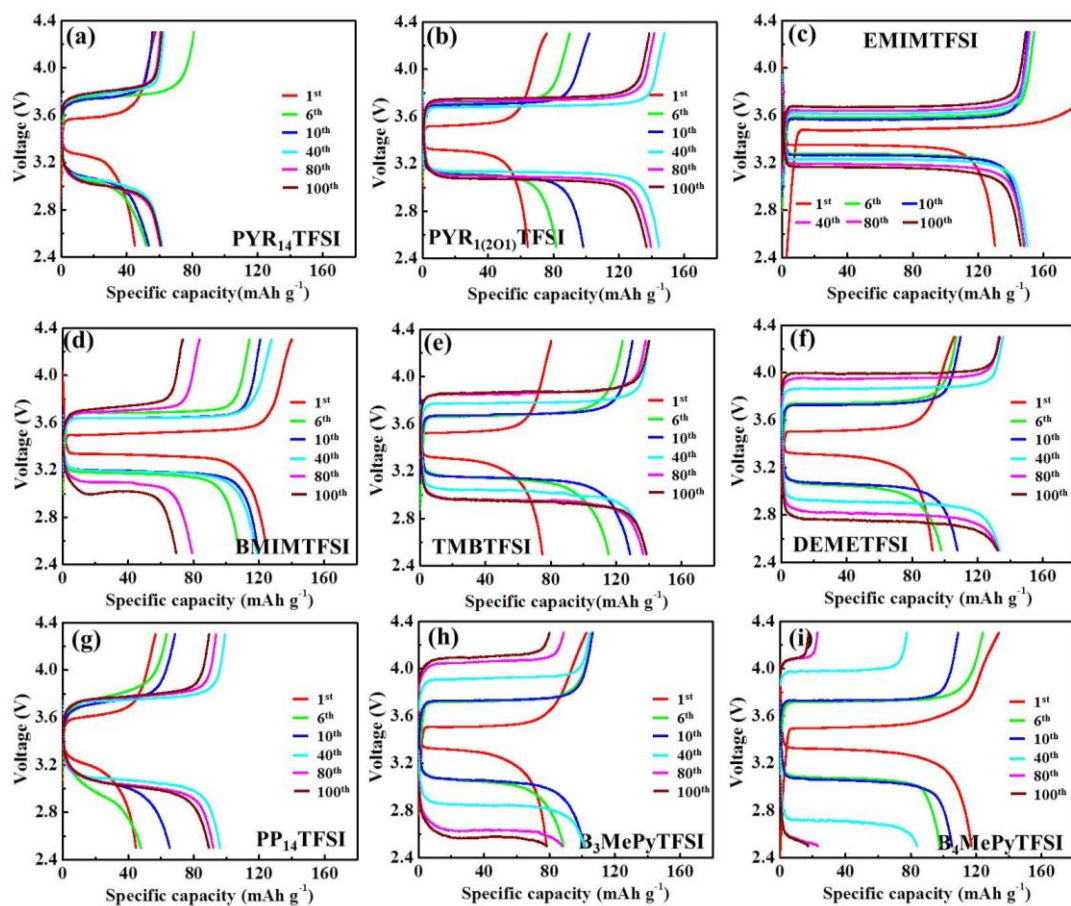


Fig. S2. The corresponding charge-discharge curves of liquid Li/LFP batteries with ionic liquid-based electrolytes.

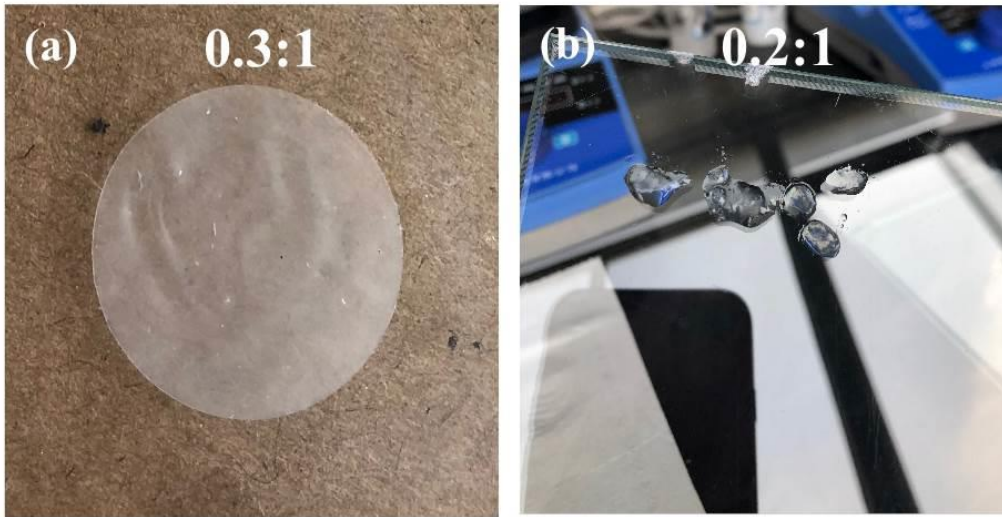


Fig. S3. The photos of PVDF/IL membranes in the weight ratio of (a) 0.3:1 and (b) 0.2:1.