

Supporting information

An ultrathin Li doped perovskite SEI film with high Li ion flux for fast charging lithium metal battery

Ruliang Liu*, Wenli Feng, Liangzhou Fang, Huiping Deng, Ling Lin, MinChang Chen, Jun-Xing Zhong * and Wei Yin

School of Chemistry and Materials Science, Guangdong University of Education

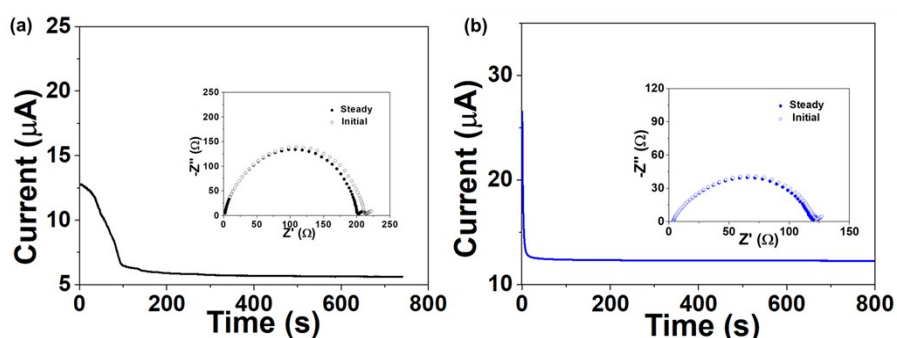


Figure S1. Chronoamperometry profiles of Li/Li symmetric cells with (a) bare Li and (b) at Li@Li-CspbCl₃10 mV of polarization (inset: Nyquist plots before and after polarization).

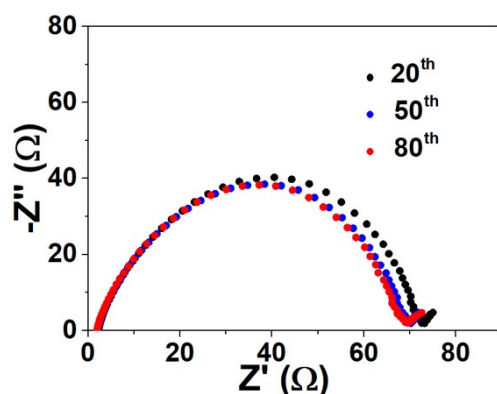


Figure S2. Nyquist plots of symmetric Li/Li cell with Li-CsPbCl₃ SEI film at different cycles (20th, 50th and 80th).

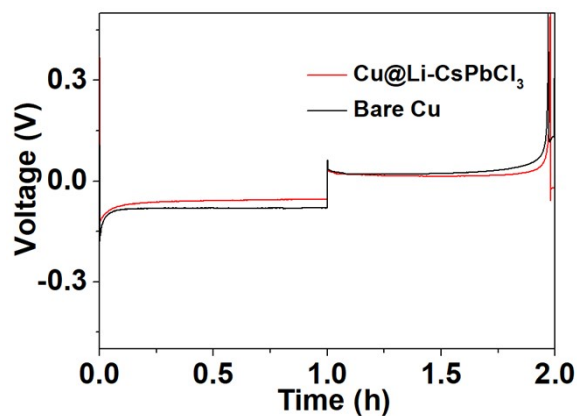


Figure S3. The first voltage-time curves for Li/Cu cells with bare Cu and Cu@ Li-CsPbCl₃ film at a current density of 1 mA cm⁻².

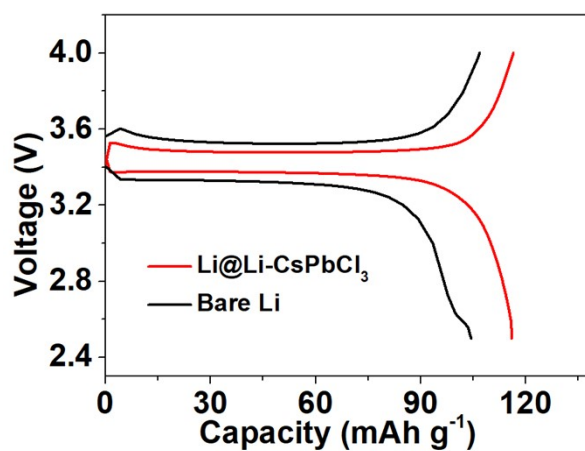


Figure S4. The first charge-discharge profiles of Li/LiFePO₄ cells with bare Li and Li@Li-CsPbCl₃ anodes at 3 C.