

# **Effective Suppression of Lithium Dendrite Growth Using Fluorinated Polysulfonamide Containing Single-Ion Conducting Polymer Electrolyte**

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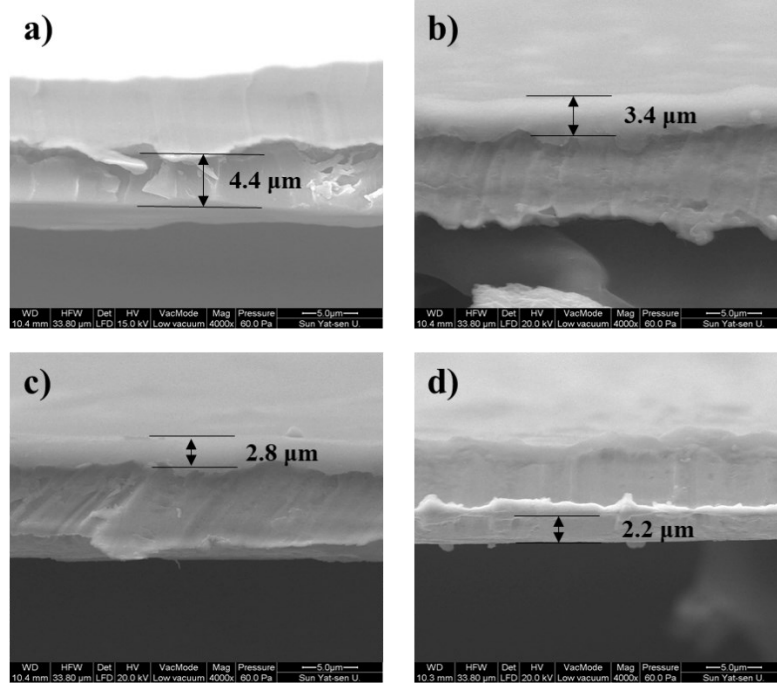


Fig. S1 SEM images of LFPP layer coated on Cu foil, a) 5% LFPP; b) 3% LFPP; c) 1% LFPP; d) 0.5% LFPP.

Table 1 Ionic conductivity of the LFPP SEI layer in DMC/EC/EMC (vol. %=1:1:1).

Concentration	$\Phi_{SS}$ (mm)	$\delta_{SEI}$ ( $\mu\text{m}$ )	$\delta_{PP}$ ( $\mu\text{m}$ )	$R_0$ ( $\Omega$ )	$\sigma$ ( $\text{mS cm}^{-1}$ )
5%	15.5	9.90	25.0	25.6	0.0927
3%	15.5	7.87	25.0	32.4	0.0667
1%	15.5	6.07	25.0	46.4	0.0424
0.5%	15.5	4.95	25.0	65.2	0.0284