

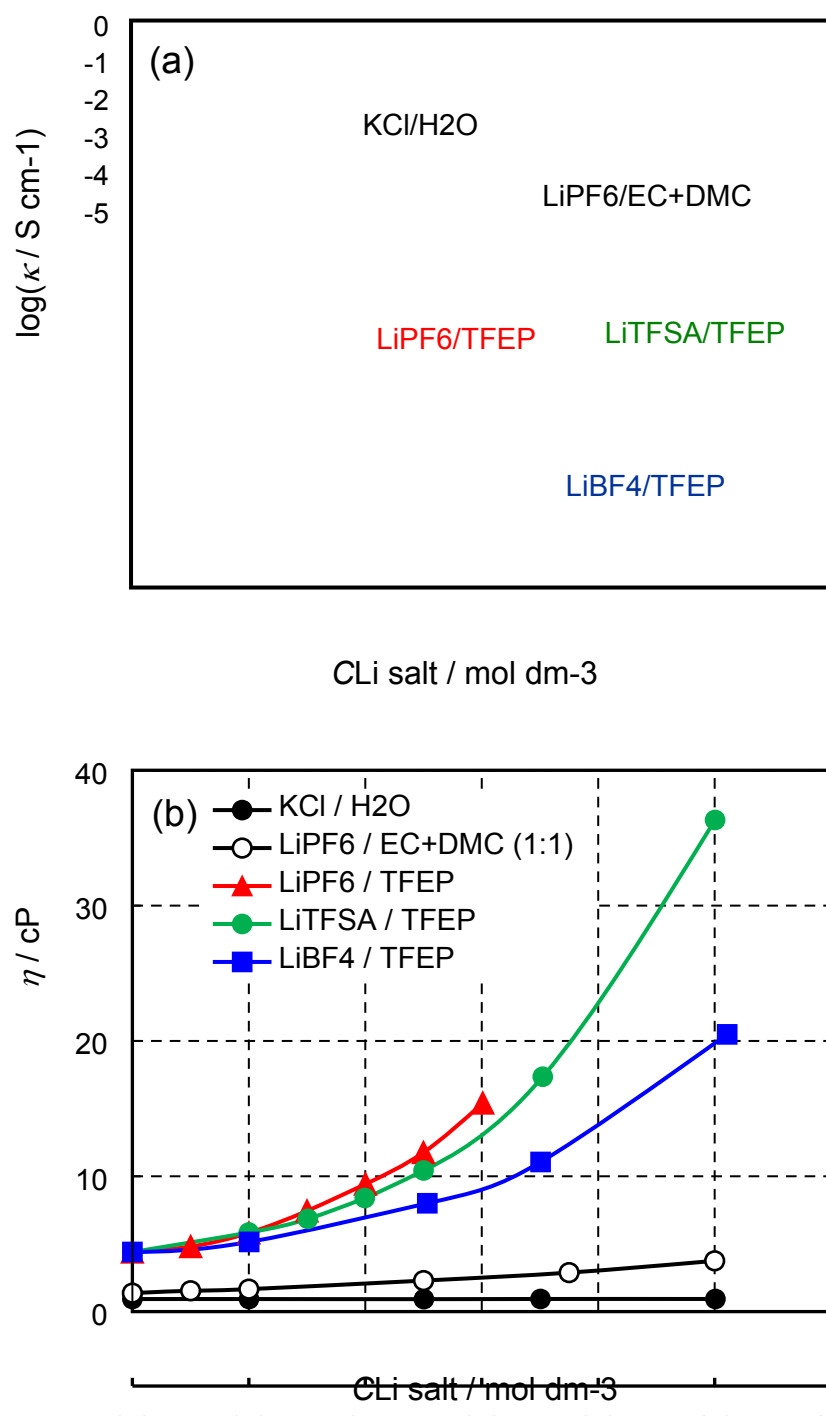


Fig. S1 Ionic conductivity (a) and viscosity of LiX/TFEP solutions at 298 K as a function of the salt concentration.

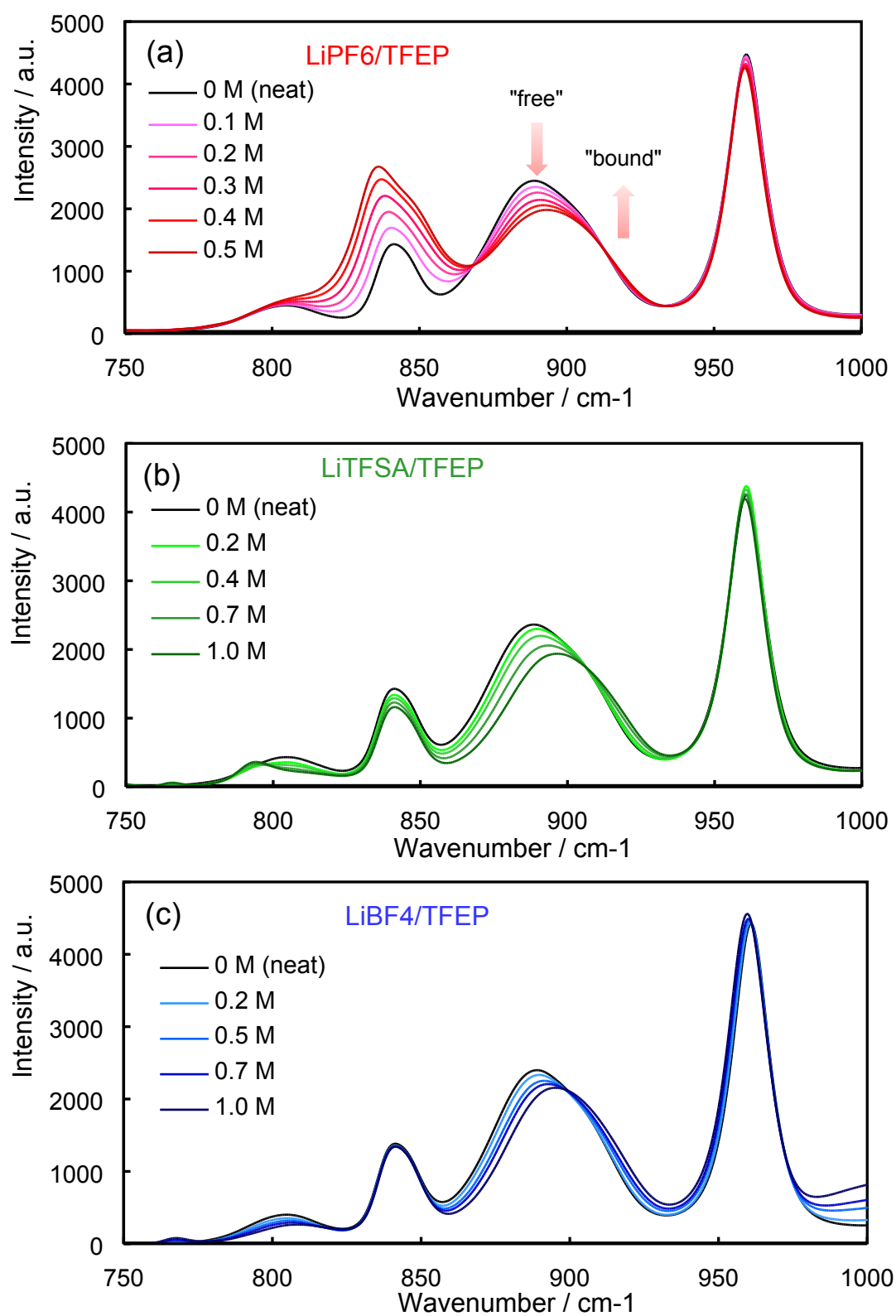


Fig. S2 (a-c)

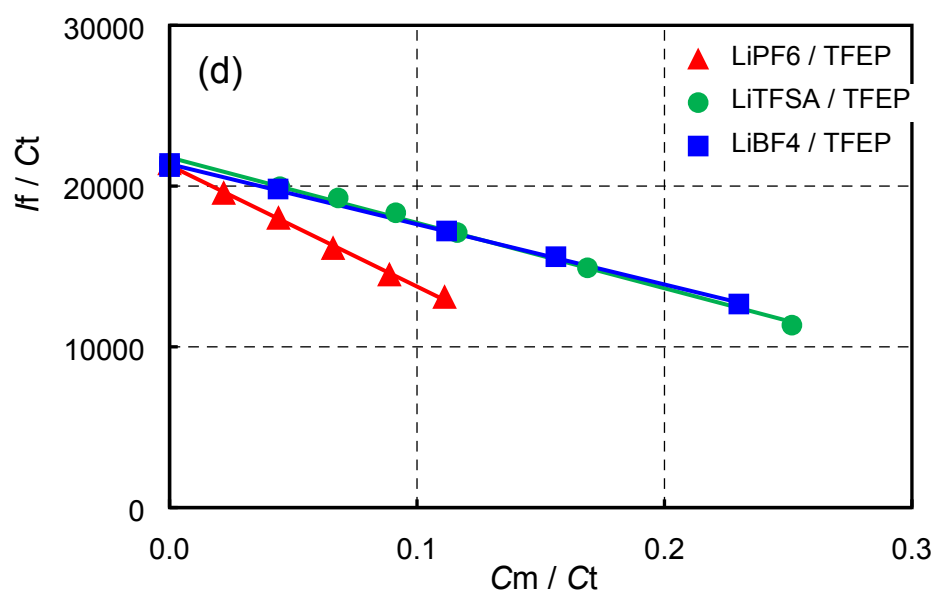


Fig. S2(d)

Fig. S2 ATR-IR spectra of LiX/TFEP solutions (a – c) and the area intensity of the “free” band as a function of the salt concentration for LiX/TFEP (d).

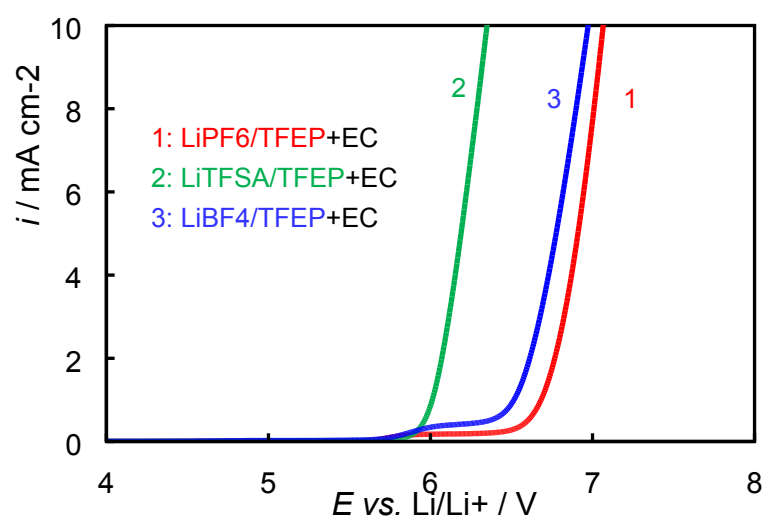


Fig. S3 LSV of the Pt electrode in LiX/TFEP+EC (4 M).

Concentration of Li salt: 0.5 M. Potential sweep rate: 5 mV s⁻¹.