Supplementary Information

Headway in rhodanide anion based ternary gel polymer electrolytes (TILGPEs) for applications in rechargeable lithium ion batteries: An efficient route to achieve high electrochemical and cycling performances

Photographic image of prepared gel polymer electrolyte (TILGPE3)



Figure S1: Photographic image of prepared gel polymer electrolyte (TILGPE3)

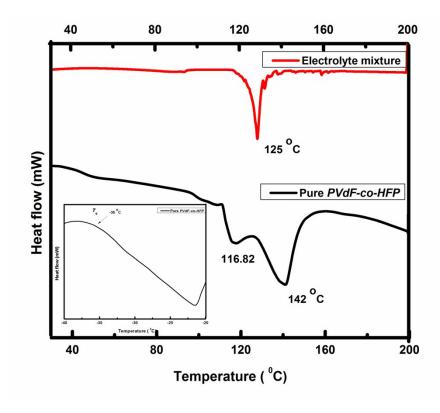


Figure S2: DSC thermogram of pristine *PVdF-co-HFP* and electrolyte mixture

TGA analysis

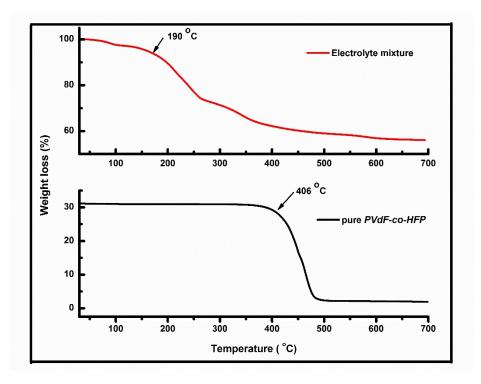


Figure S3: TGA thermogram of pristine PVdF-co-HFP and electrolyte mixture

FT-IR analysis

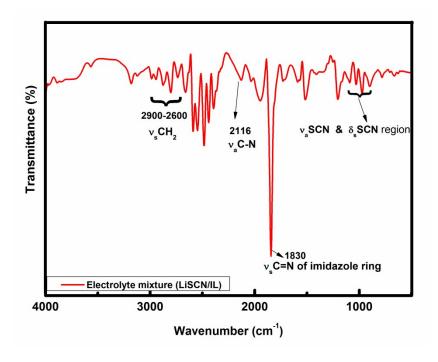


Figure S4: FT-IR spectrum of electrolyte mixture

Charge-discharge analysis of Li/ (1M LiPF₆ in 50%:50% EC/PC)/LiFePO₄ (using Celgard 2300 as separator)

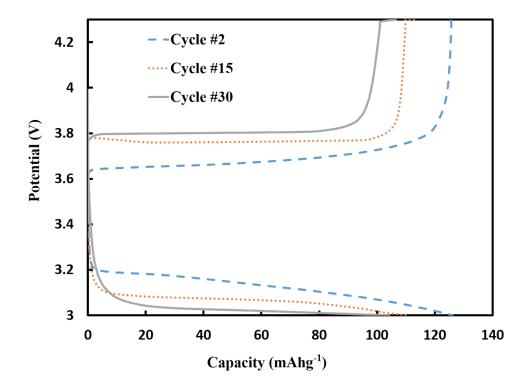


Figure S5: Charge discharge profile of conventional liquid electrolyte 1M LiPF₆ in EC/PC

Capacity retention curve

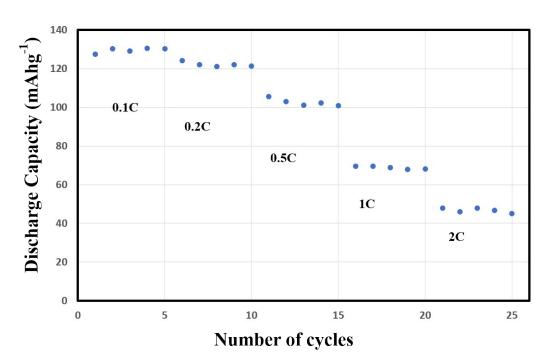


Figure S6: Capacity retention curve of 1M LiPF₆ in EC/PC (50%:50%)