Electronic Supplementary Information (ESI) for

A novel solid-state electrolyte based on crown ether lithium salt complex

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Fig. S1 $^1$HNMR spectrum of 12-crown-4
Fig. S2 $^1$HNMR spectrum of [Li$\epsilon$12-C-4][I]

Fig. S3 XRD patterns of LiI and [Li$\epsilon$12-C-4][I]
**Fig. S4** Typical DSC curve of Electrolyte I with I₂

**Fig. S5** J-V curves for solid-state DSSCs fabricated with Electrolytes B and G, respectively