**Supplementary information**

**Semi-interpenetrating Solid Polymer Electrolyte for LiCoO2-based Lithium Polymer Batteries Operated at Room Temperature**

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**Fig. S1.** Charge-discharge potential profiles of the LCO/SPE/Li cells with various current densities ranged from 0.2 C to 2 C at potential range (a) 3 V – 4.3 V, (b) 3 V – 4.2 V, and (c) 3 V – 4.1 V.