

Electronic Supplementary Information:

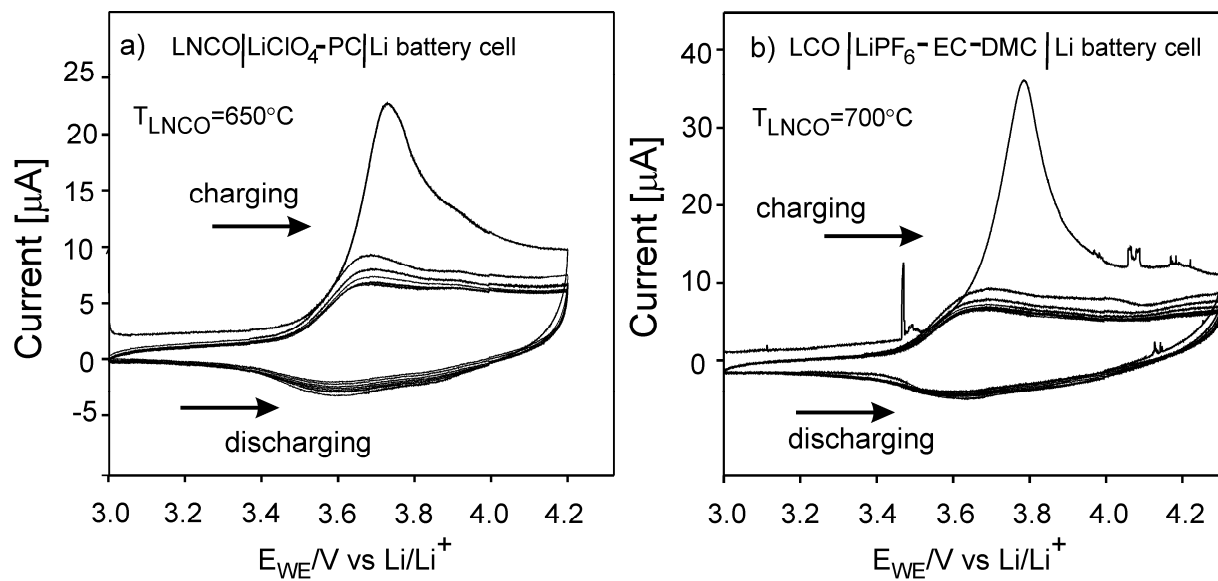


Fig. 1S Cyclic voltammograms of the battery cells with a $\text{Li}(\text{Ni},\text{Co})\text{O}_2$ film cathode material grown by co-sputtering of the LNCO and Li_2O target materials on a substrate heated at (a) $T_{\text{dep}}=650^\circ\text{C}$ and (b) $T_{\text{dep}}=700^\circ\text{C}$. $\text{LiClO}_4\text{-PC}$ (a) and $\text{LiPF}_6\text{-EC-DMC}$ (b) electrolytes were used.