

Supplementary Information

Figure A: First electrochemical cycle of $\text{Li}_{1.1}(\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3})_{0.9}\text{O}_2$ and graphite electrodes in a coin-like cell for comparison with the electrochemistry of these active materials in the *in situ* neutron powder diffraction (NPD) cell.

