Supplementary Information

Self-assembly synthesis and electrochemical performance of the \( \text{Li}_{1.5}\text{Mn}_{0.75}\text{Ni}_{0.15}\text{Co}_{0.10}\text{O}_{2+\delta} \) microspheres with multilayer shells

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Fig. S1 (a) Capacity retention of Li/CNL cell; (b) the continuous charge/discharge curves of the 1st, 50th, 75th, 100th cycles for Li/CNL cell at a rate of 0.5 C in the voltage range of 2.0-4.6 V.
Fig. S2 SEM images of CNL electrodes after 100 cycles.
**Fig. S3** (a) Discharge capacity versus cycle number of Li/CNL cell; (b) discharge curves of Li/CNL cell at various rates in the voltage range of 2.0-4.6 V.
Fig. S4 (a) The GITT curves of CNL cathode materials as a function of time in the voltage range of 2.0-4.6 V; (b) $dE/dx$ and (c) $dE/dt^{1/2}$ as a function of the stoichiometry $x$; and (d) the calculated $D_{Li^+}$ values of the CNL cathode materials as a function of the stoichiometry $x$. 