Electronic Supplementary Information

A Novel Li$_2$Mn$_{2.9}$Ni$_{0.9}$Co$_{0.2}$O$_8$ Spinel Composite Interweaved with Carbon Nanotube Architecture as Lithium Battery Cathode

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Figures

**Figure S1.** HRTEM images showing the lattice fringes of Li$_2$Mn$_{2.9}$Ni$_{0.9}$Co$_{0.2}$O$_8$

**Figure S2.** FTIR spectra of pristine Li$_2$Mn$_{2.9}$Ni$_{0.9}$Co$_{0.2}$O$_8$ and the corresponding Li$_2$Mn$_{2.9}$Ni$_{0.9}$Co$_{0.2}$O$_8$/MWCNT composite
Figure S3. First cycle charge discharge voltage profile of Li$_2$Mn$_{2.9}$Ni$_{0.9}$Co$_{0.2}$O$_8$/MWCNT composite.

Figure S4. Room temperature conductivity versus AC frequency of a) pristine Li$_2$Mn$_{2.9}$Ni$_{0.9}$Co$_{0.2}$O$_8$ and b) Li$_2$Mn$_{2.9}$Ni$_{0.9}$Co$_{0.2}$O$_8$/MWCNT composite.