Supporting Information

Rational Design of MnCo₂O₄@NC@MnO₂ Three-Layered Core-Shell Octahedron for High-Rate and Long-Life Lithium

Storage

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Figure S1. CV curves of (a) $MnCo_2O_4$ and (b) $MnCo_2O_4$ @NC from 0.01 to 3 V at a scan rate of 0.1 mV s⁻¹.



Figure S2. Galvanostatic discharge-charge curves of (a) $MnCo_2O_4$ and (b) $MnCo_2O_4$ @NC at 500 mA g⁻¹.



Figure S3. EIS spectra of (a) $MnCo_2O_4$ and (b) $MnCo_2O_4$ @NC after different cycles recorded in the frequency range of 0.01-10⁶ Hz.



Figure S4. SEM images of $MnCo_2O_4@NC@MnO_2$ electrode (a) before cycling and (b) after 500 cycles at a current density of 1000 mA g⁻¹.



Figure S5. SEM images of $MnCo_2O_4$ @NC electrode (a) before cycling and (b) after 100 cycles at a current density of 500 mA g⁻¹.



Figure S6. SEM images of $MnCo_2O_4$ electrode (a) before cycling and (b) after 100 cycles at a current density of 500 mA g⁻¹.