Electronic Supporting Information

Facile pH-mediated synthesis of morphology-tunable MnCO$_3$ and their transformation to truncated octahedral spinel LiMn$_2$O$_4$ cathode materials for superior lithium storage

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**Fig. S1** Electrochemical test of LMO-S: rate capabilities under variable current rate and cycle performances. The voltage range of 3.0-4.3 V vs. Li/Li$^+$. 

**Fig. S2** SEM image of LMO-S.
Fig. S3 (A) $N_2$ adsorption/desorption isotherms and (B) pore size distribution curves of LMO$_{7.0}$ and LMO$_{8.5}$