

Supporting Information:

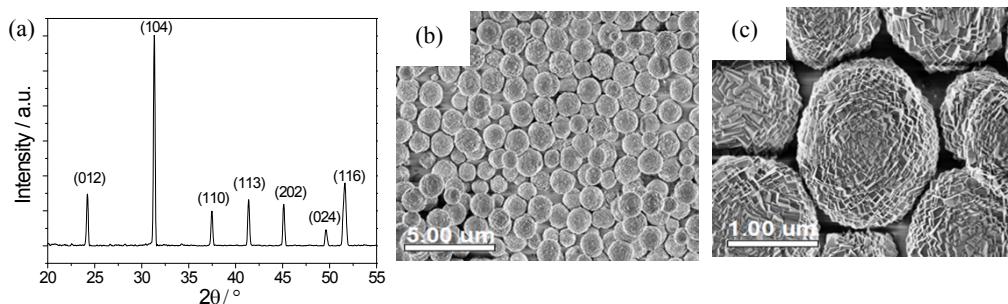


Fig. S1 (a) XRD pattern, (b) SEM and (c) FESEM micrographs of the as-prepared MnCO_3 .

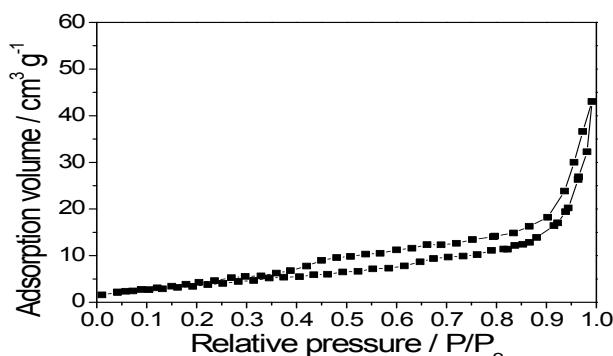


Fig.S2 Nitrogen adsorption–desorption isotherm of the $\text{Co}_3\text{O}_4@\text{Li}_2\text{MnO}_3$ composite.

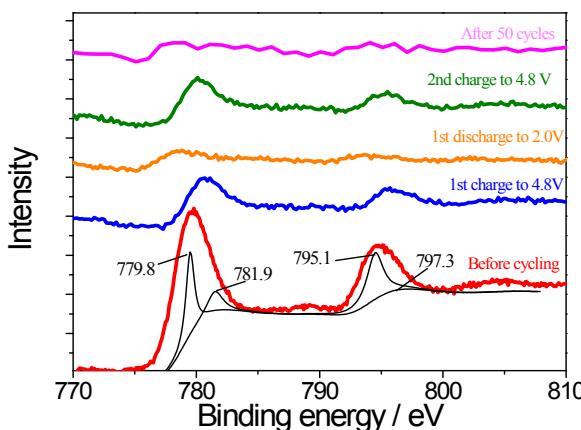


Fig. S3 XPS spectra of the $\text{Co}_3\text{O}_4@\text{Li}_2\text{MnO}_3$ composite obtained at different charge/discharge states.

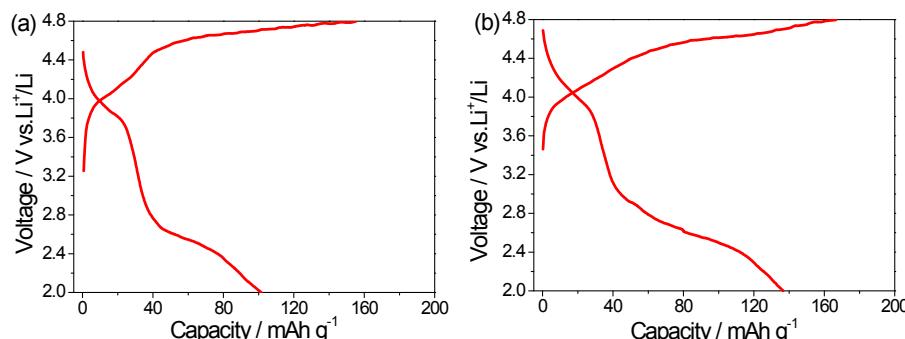


Fig. S4 Charge/discharge curves of Li_2MnO_3 coated by low amount of Co_3O_4 : (a) 4.6 wt% Co_3O_4 and (b) 10.1% Co_3O_4 .