

Electronic Supplementary Information

Fabrication of Core-Shell Porous Nanocubic Mn₂O₃@TiO₂ as High-Performance Anode for Lithium Ion Batteries

X. Q. Chen^{a,‡}, H. B. Lin^{a,‡}, X. W. Zheng^a, X. Cai^a, P. Xia^a, Y. M. Zhu^a, X. P. Li^{a,b} and W. S. Li^{a,b,*}

^a School of Chemistry and Environment, South China Normal University, Guangzhou 510006, China

^b Engineering Research Center of MTEES (Ministry of Education), Research Center of BMET (Guangdong Province), Engineering Lab. of OFMHEB (Guangdong Province), Key Lab. of ETESPG (GHEI), and Innovative Platform for ITBMD (Guangzhou Municipality), South China Normal University, Guangzhou 510006, China.

Fax and Tel: +8620 39310256; E-mail: liwsh@scnu.edu.cn

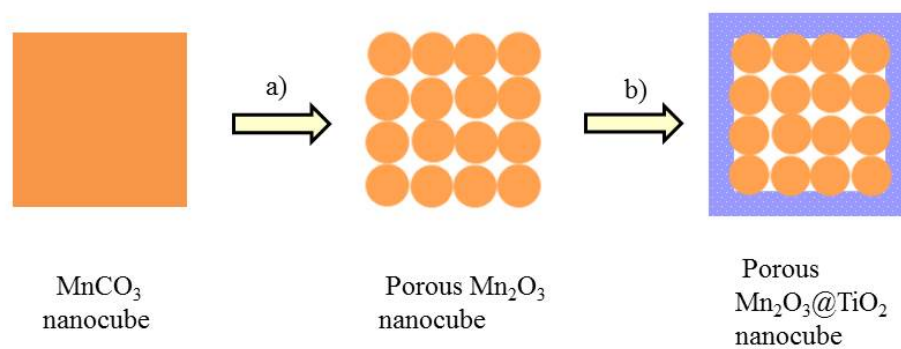


Fig. S1. Schematic fabrication of core-shell porous nanocubic $\text{Mn}_2\text{O}_3@\text{TiO}_2$: a) thermal annealing treatment of cubic MnCO_3 to form Mn_2O_3 ; b) coating Mn_2O_3 with TiO_2 to form $\text{Mn}_2\text{O}_3@\text{TiO}_2$ with porous cubic structure.

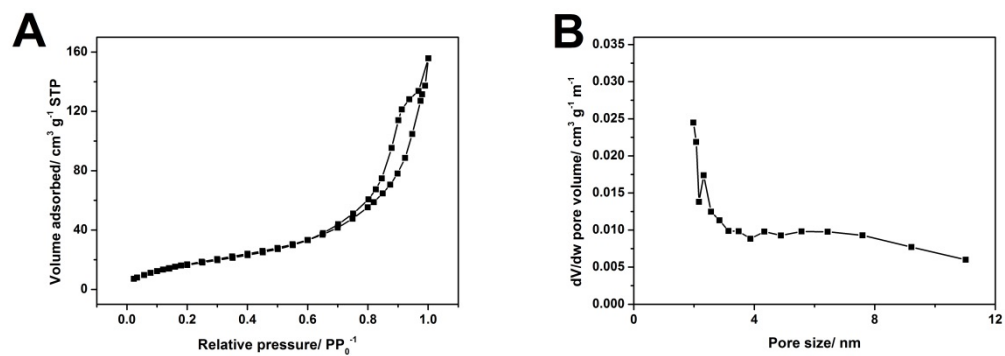


Fig. S2. N₂ adsorption/desorption isotherm (A) and corresponding pore size distribution (B) of $\text{Mn}_2\text{O}_3@\text{TiO}_2$.