

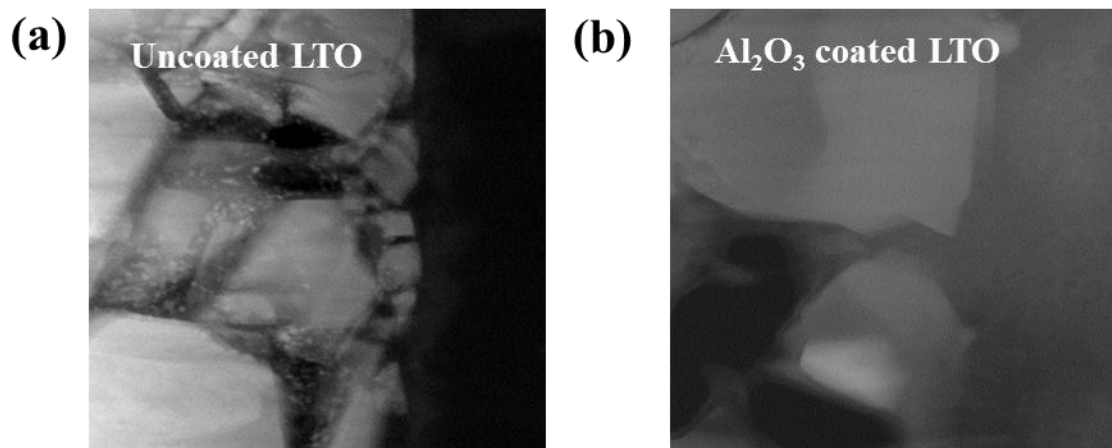


Figure S1. FIB images the (a) uncoated (b) Al_2O_3 -coated LTO after 500 cycle at 60°C . The electrodes are in a charged state.

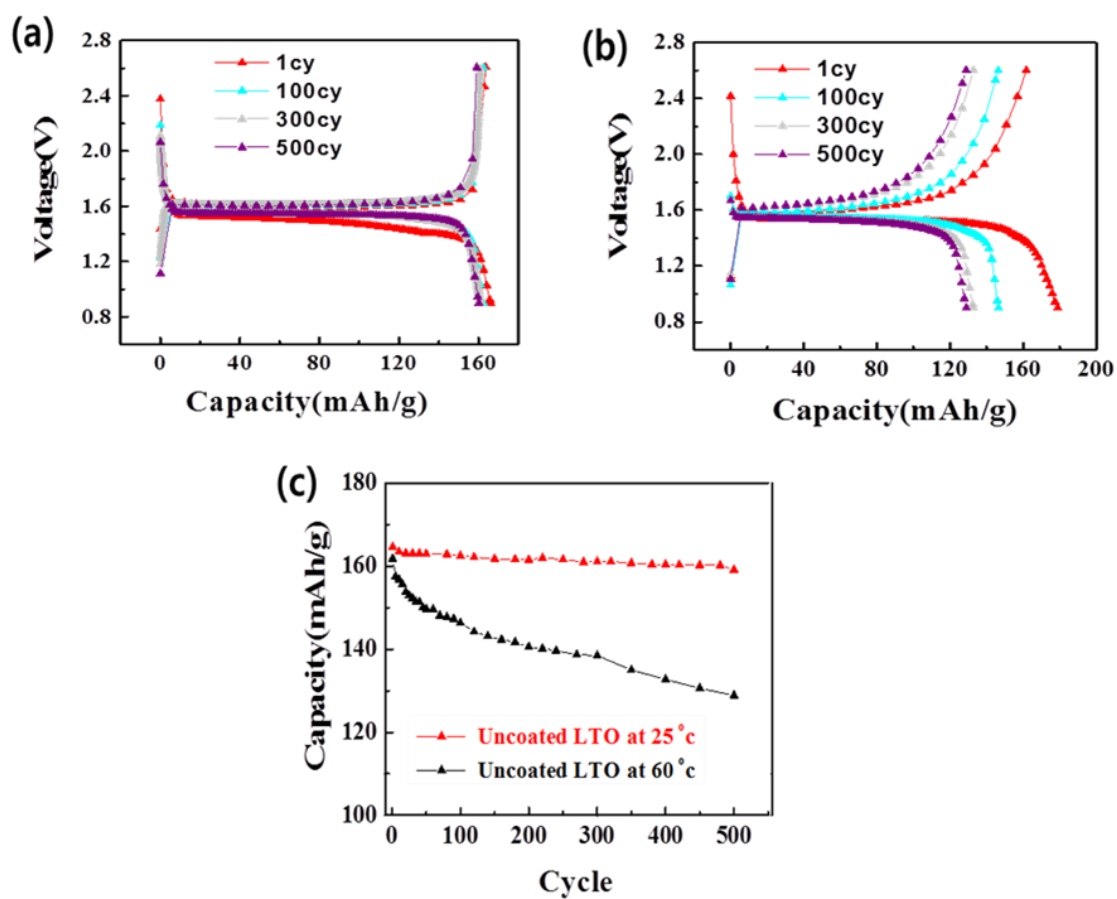


Figure S2. Charge and discharge curves of uncoated LTO (a) at 25°C and (b) at 60°C . (c) Cycle-life performances of the uncoated LTO cycled at 25°C and 60°C . The cells are discharged and charged within a voltage range of 2.6 and 0.9 V at 2 C. (2 C = 250 mA/g based upon the theoretical capacity of LTO: 175 mAh/g).

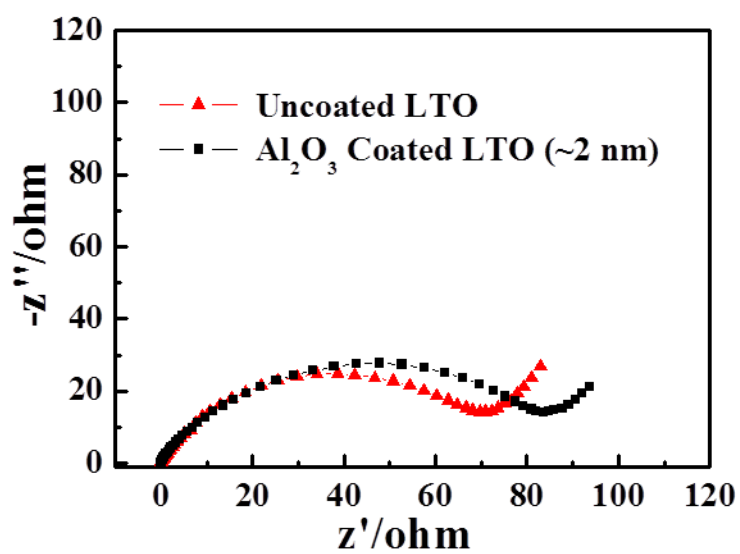


Figure S3. Nyquist plots of the uncoated and Al₂O₃-coated LTO electrodes.

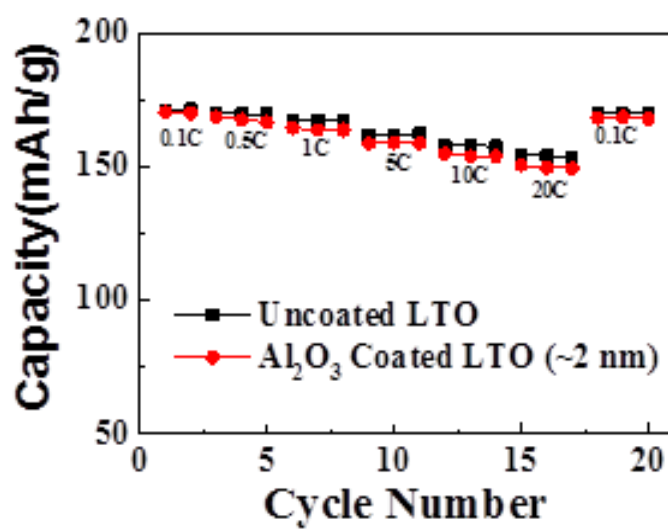


Figure S4. Galvanostatic charge-discharge tests of the uncoated and Al₂O₃-coated LTO electrode at different current densities varied from 0.1 to 20 C.

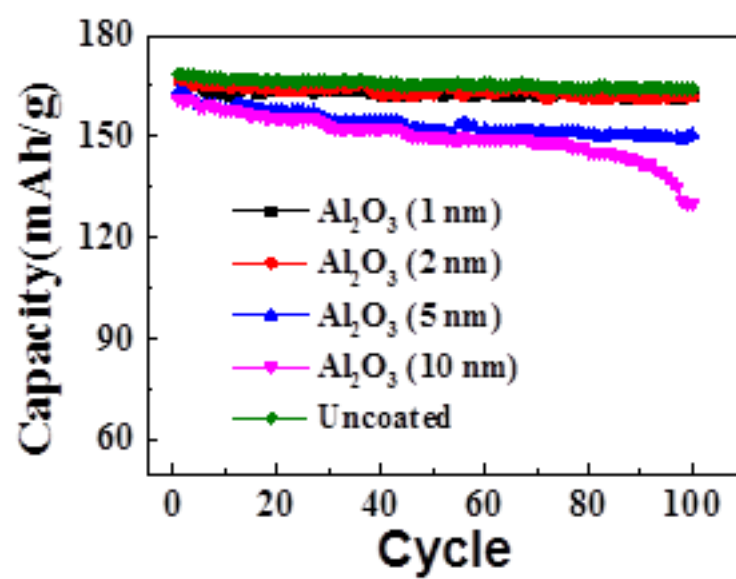


Figure S5. Comparison of the Al₂O₃-coated LTO electrodes having different thicknesses.