Electronic Supporting Information (ESI)

Tiny $Li_4Ti_5O_{12}$ Nanoparticles Embedded in Carbon Nanofibers as High-Capacity and Long-Life Anode Materials for both Li-Ion and Na-Ion Batteries

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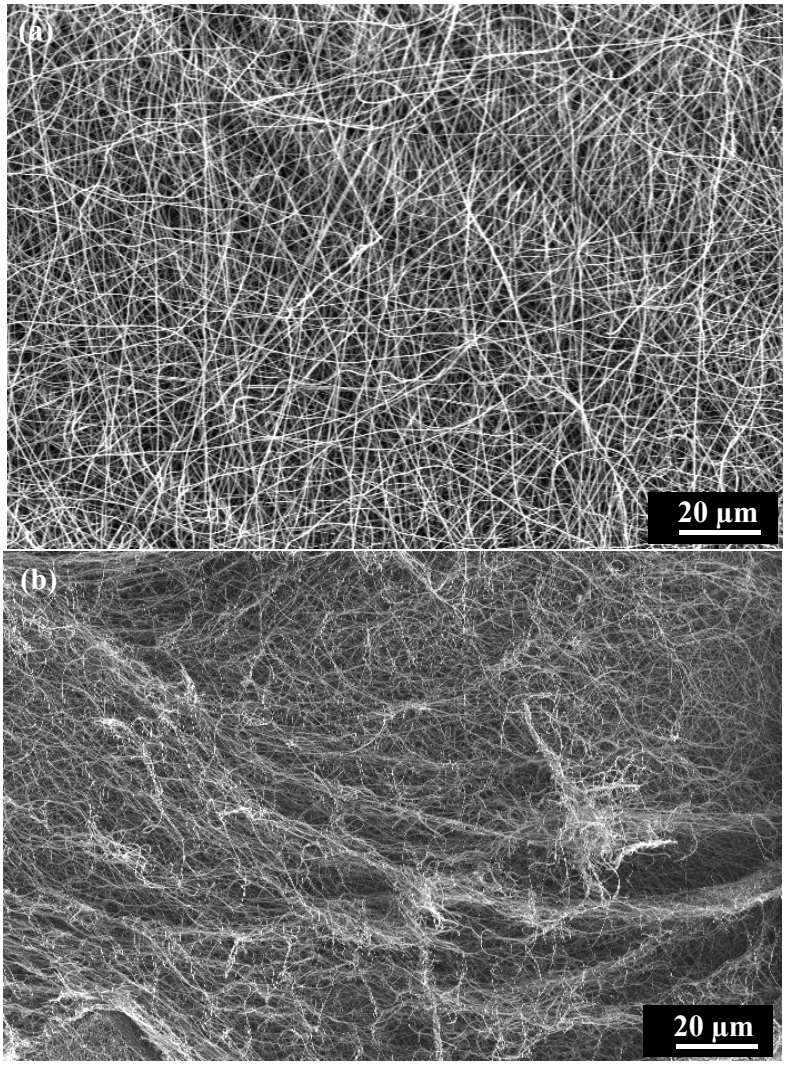

Figure S1. Low-magnification SEM micrographs of as-collected precursor ultralong nanofibers (a) by electrospinning and the finally obtained $Li_4Ti_5O_{12}$@C hierarchical ultralong nanofibers (b) obtained by subsequently annealing of the precursor nanofibers in Ar atmosphere.

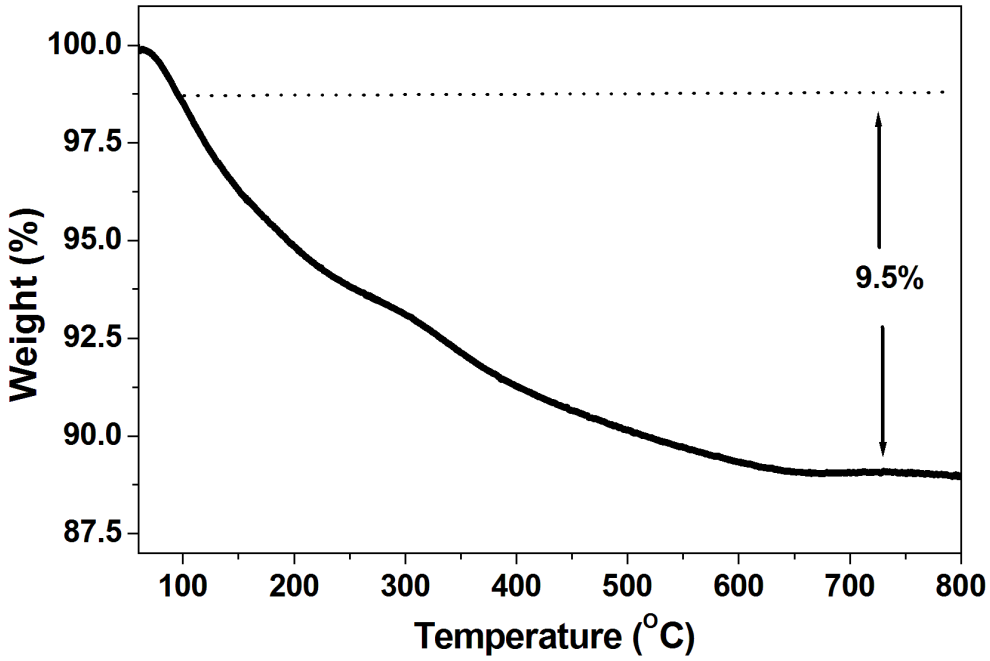

Figure S2. TGA curve of $Li_4Ti_5O_{12}$@C hierarchical ultralong nanofibers, indicating the carbon content of these composites is approximate 9.5%.

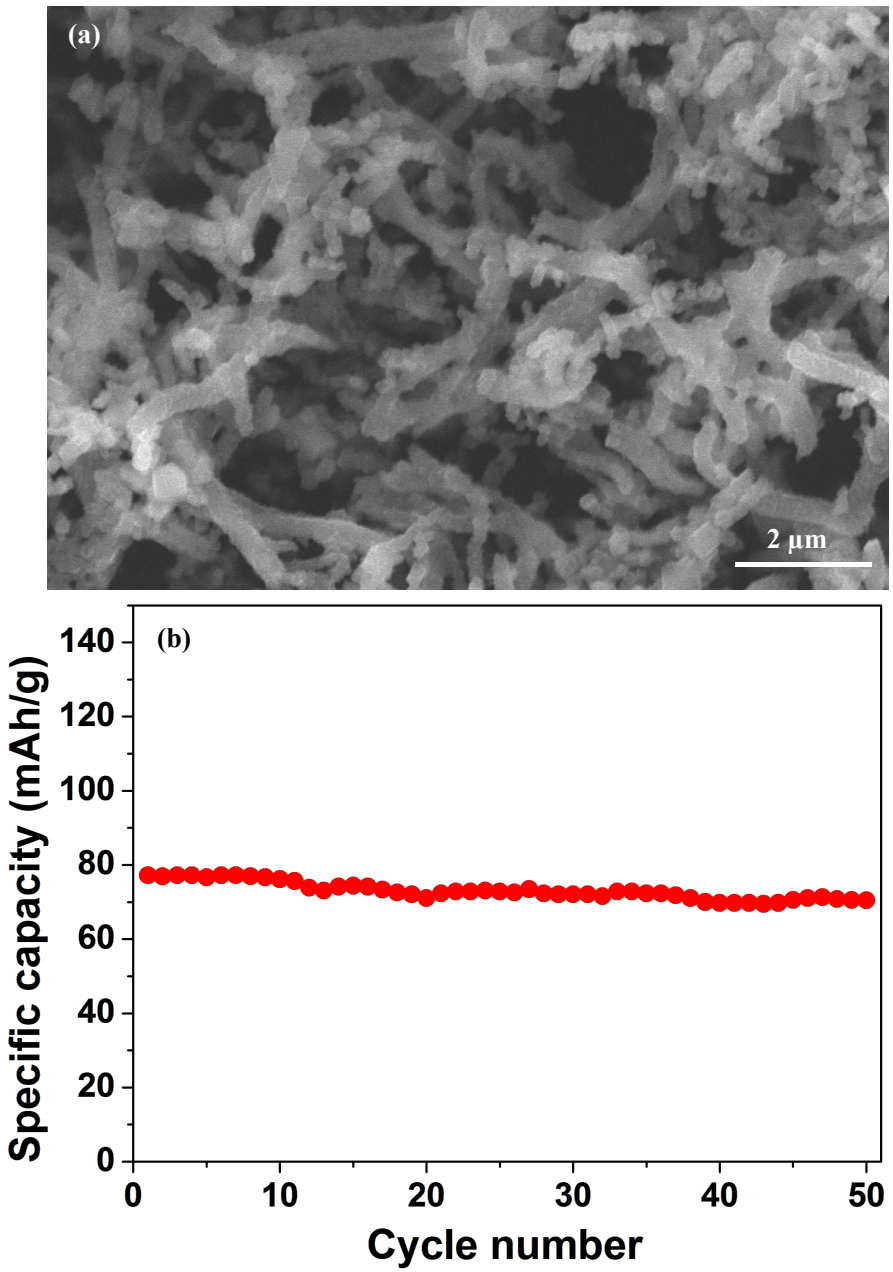

Figure S3. SEM image (a) and cycling performance (b) of bare $Li_4Ti_5O_{12}$ nanofibers by annealing of precursor nanofibers in air condition. Without the protection of inert Ar atmosphere, these ultralong nanofibers were calcined into short $Li_4Ti_5O_{12}$ nanofibers.