Supporting Information for

Long-Term, High-Rate Lithium Storage Capabilities of TiO$_2$
Nanostructured Electrodes Using 3D Self-Supported Indium
Tin Oxide Conducting Nanowire Arrays

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Figure S1. Typical TEM image of ITO/TiO$_2$ hybrid nanowires.
**Figure S2.** EDS elemental mapping results of an individual ITO/TiO$_2$ nanowire, marked by a red square region in the inset.
Figure S3. Wide and narrow scan XPS spectra for a bundle of the ITO/TiO$_2$ hybrid nanowires.
Figure S4. Typical cyclic voltammetry of the ITO/TiO$_2$ hybrid nanostructured electrode at a scanning rate of 0.2 mV s$^{-1}$. 
Figure S5. Charging-discharging curves of an ITO/TiO$_2$ hybrid nanostructured electrode at different C rates.
Figure S6. Charging-discharging curves of an ITO/TiO$_2$ hybrid nanostructured electrode.
Figure S7. SEM image of a fully lithiated ITO/TiO$_2$ hybrid nanostructured electrode (taken after 400 cycles). The Inset shows the FE-SEM image of a fully lithiated individual nanowire.