TiO$_2$(B)@Carbon Composite Nanowires as Anode for Lithium Ion Batteries with Enhanced Reversible Capacity and Cyclic Performance

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Fig. S1  TGA/DSC curves of TiO$_2$(B)@Carbon composite nanowires.

Fig. S2  EDX spectrum of TiO$_2$(B)@Carbon composite nanowires and corresponding content table for the sample (inset).
**Scheme S1**  Charge diffusion and conducting mechanism of 
TiO$_2$(B)@Carbon composite nanowires during charge/discharge processes. 
The inset shows a high resolution TEM image of TiO$_2$(B)@Carbon composite nanowire.

**Fig. S3** Capacity–cycle number curves from the first cycle to the 100$^{th}$ cycle of anatase TiO$_2$(B)@C nanowires between 1.0 and 3.0 V vs. Li$^+/Li$ at the current density of 30 mAg$^{-1}$. 
**Fig. S4** Voltage profiles for selected cycles of glucose-hydrothermal derived carbon electrode between 0.01 and 3.0 V vs. Li⁺/Li at the current density of 30 mAg⁻¹.