Facile synthesis of C/Fe$_3$O$_4$/C core-shell nanotubes by a self-templating route and the application as high-performance anode for Li-ion batteries

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**Fig. S1** XRD patterns of bare Fe$_3$O$_4$

No obvious impurities are observed. The bare Fe$_3$O$_4$ was reduced from Fe$_2$O$_3$ under N$_2$/H$_2$ mixed gas at 260 °C for 2 h.

**Fig. S2** SEM image of bare Fe$_3$O$_4$
As shown in Fig. S2, the structure of bare Fe\textsubscript{3}O\textsubscript{4} is nanotube. However, some of the bare Fe\textsubscript{3}O\textsubscript{4} nanotubes have been broken during the heat treatment.