Supporting Information

Synthesis and Optimizable Electrochemical Performance of Reduced Graphene Oxide Wrapped Mesoporous TiO$_2$ Micospheres

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Fig. S1 TGA curves of the TiO\textsubscript{2}/RGO samples with different RGO contents, (a) 5.3 wt\%, (b) 8.9 wt\%, and (c) 11.2 wt\%.

Fig. S2 C 1s XPS spectra of the graphene oxide.
Fig. S3 AFM image of the graphene oxide.

Fig. S4 SEM image of the lab-prepared ordinary TiO$_2$ nanoparticles.
**Fig. S5** SEM images of the TiO$_2$ and TiO$_2$/RGO electrodes after 80 charge-discharge cycles.

**Fig. S6** Rate dependent cycling performance of RGO in the voltage range of 1.0-3.0 V.
Fig. S7 Rate dependent cycling performance of TiO$_2$/RGO with different RGO contents.