Supporting Information

High Lithium Ion Battery Performance Enhancement by Controlled Carbon Coating of TiO$_2$ Hierarchically Porous Hollow Spheres

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Fig. S1. The SEM image of the TiO$_2$ solid spheres (TSS).
Fig. S2. The optical images of the TiO$_2$-MS, TiO$_2$/C-MS, TiO$_2$-HS and TiO$_2$/C-HS powders.
Fig. S3. TG curve of TiO$_2$/C-MS under an air flow at temperature ramp of 5 °C min$^{-1}$. 
Fig. S4. TG and DSC curves of TiO$_2$/C-HS under an air flow at temperature ramp of 5 °C min$^{-1}$. 
Fig. S5. (a) Charge and discharge curves of TiO$_2$-MS at a current of 0.2 C for the first cycle, (b) rate performance of TiO$_2$-MS, (c) cycle performance of TiO$_2$-MS at a current density of 1 C.
Fig.S6. (a) Charge and discharge curves of TiO$_2$/C-MS at a current of 0.2 C for the first cycle, (b) rate performance of TiO$_2$/C-MS, (c) cycle performance of TiO$_2$/C-MS at a current density of 1 C.