*Supporting Information*

Sulfur Impregnation in Polypyrrole-Modified MnO$_2$ Nanotubes: Efficient Polysulfide Adsorption for Improved Lithium-Sulfur Battery Performance

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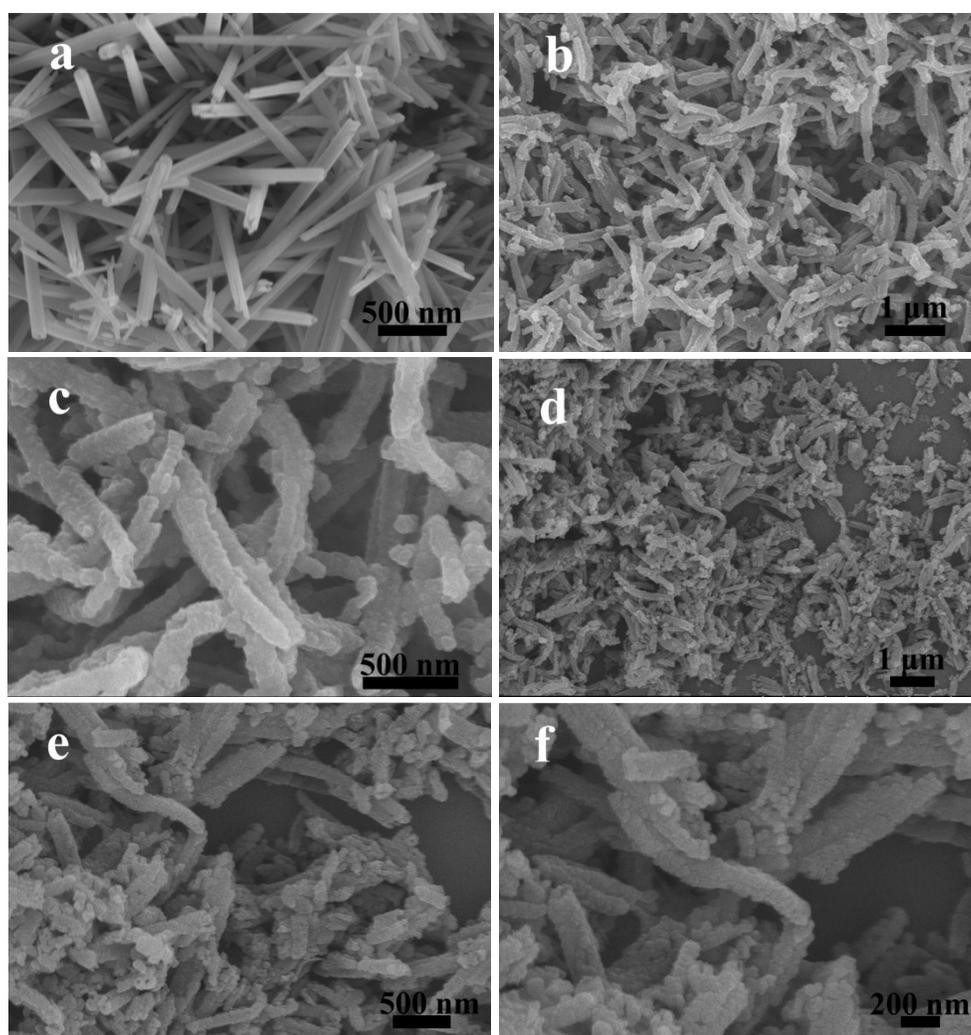
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Fig. S1. Representative SEM images of (a) MnO$_2$ nanotubes, (b,c) MnO$_2$-PPy nanotubes, and (d-f) MnO$_2$-PPy-S.
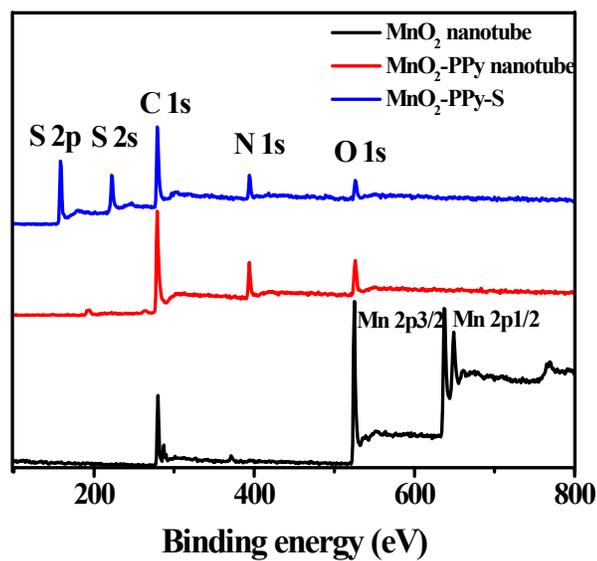
Fig. S2. XPS spectra of MnO$_2$, MnO$_2$-PPy, MnO$_2$-PPy-S.
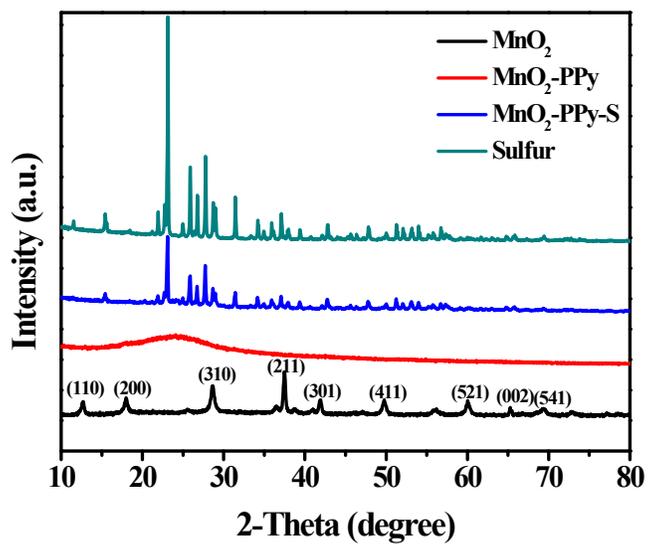
Fig. S3. XRD patterns of MnO$_2$, MnO$_2$-PPy, MnO$_2$-PPy-S and sulfur.
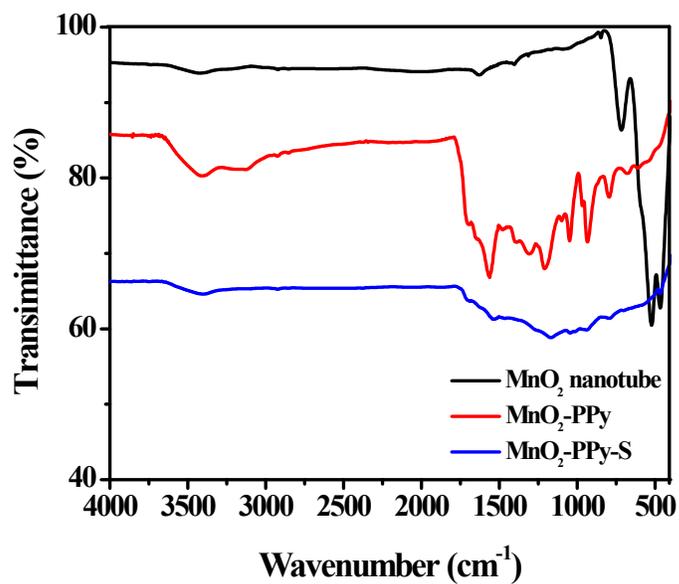
Fig. S4. FT-IR spectra of MnO_2, MnO_2-PPy and MnO_2-PPy-S.
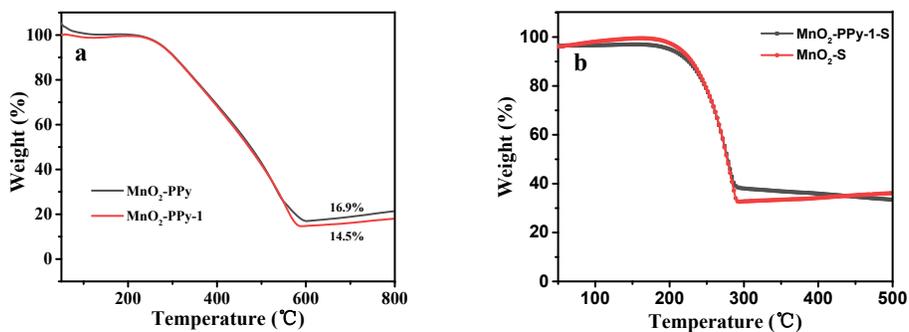
Fig. S5. TGA curve of MnO_2-PPy (a) and MnO_2-PPy-S and MnO_2-S (b).