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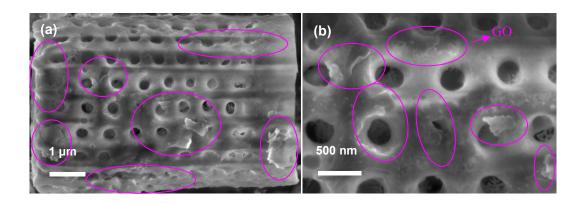


Figure S1. Typical SEM images of the GO-DE nano-hybrid. Note that GO was marked by purple ellipse.

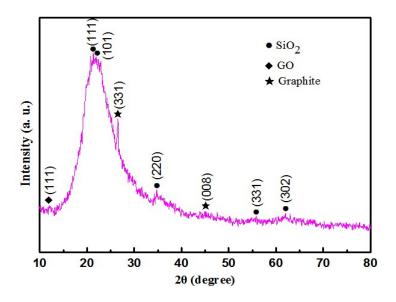


Figure S2. XRD pattern of the GO-DE nano-hybrid.

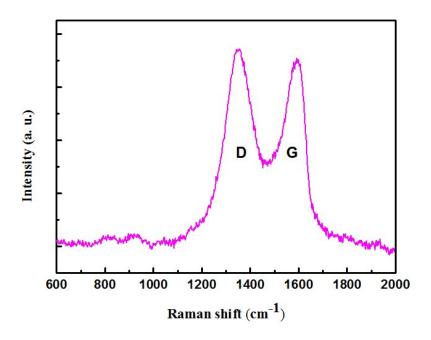


Figure S3. Raman spectroscopy plots of the GO-DE nano-hybrid.

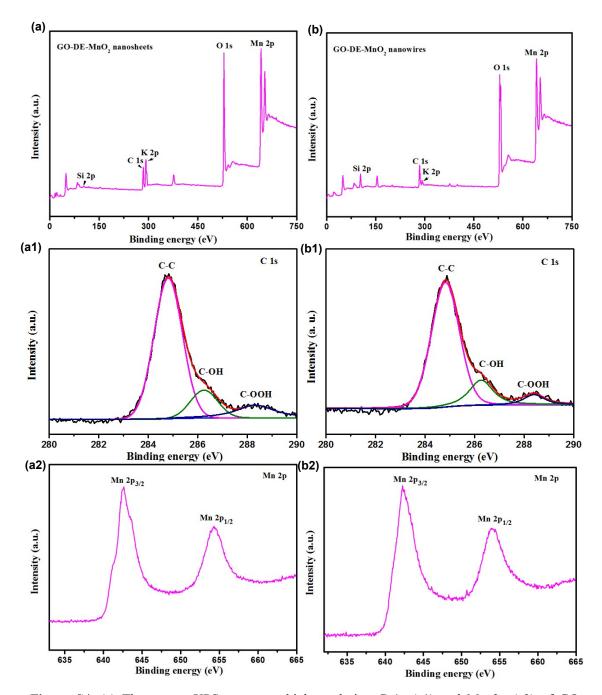


Figure S4. (a) The survey XPS spectrum, high-resolution C 1s (a1) and Mn 2p (a2) of GO-DE@MnO₂ composite with MnO₂ nanosheets; (b) The survey XPS spectrum, high-resolution C 1s (b1) and Mn 2p (b2) of GO-DE@MnO₂ composite with MnO₂ nanowires.

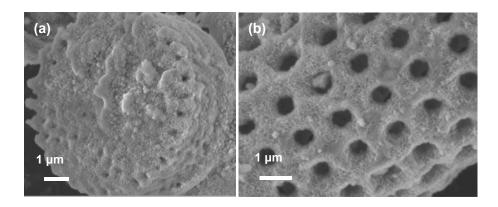


Figure S5. SEM images of the DE@MnO $_2$ composite with MnO $_2$ nanosheets obtained at 160 °C for (a,b) 12 h.