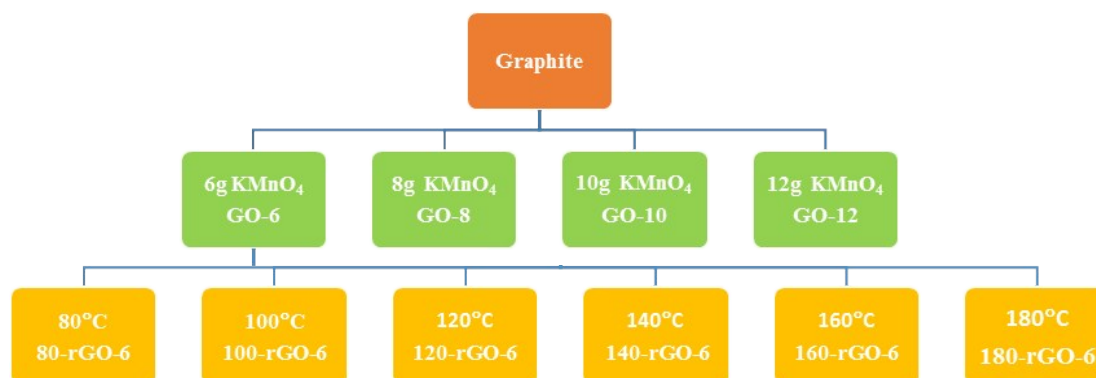


Supplementary information

- Flow chart of the experimental procedure for preparing GO-X (X=6, 8, 10 and 12) and Y-rGO-6 (Y=80, 100, 120, 140, 160 and 180).



Scheme S1 Flow chart of the experimental procedure

- The Raman spectroscopy

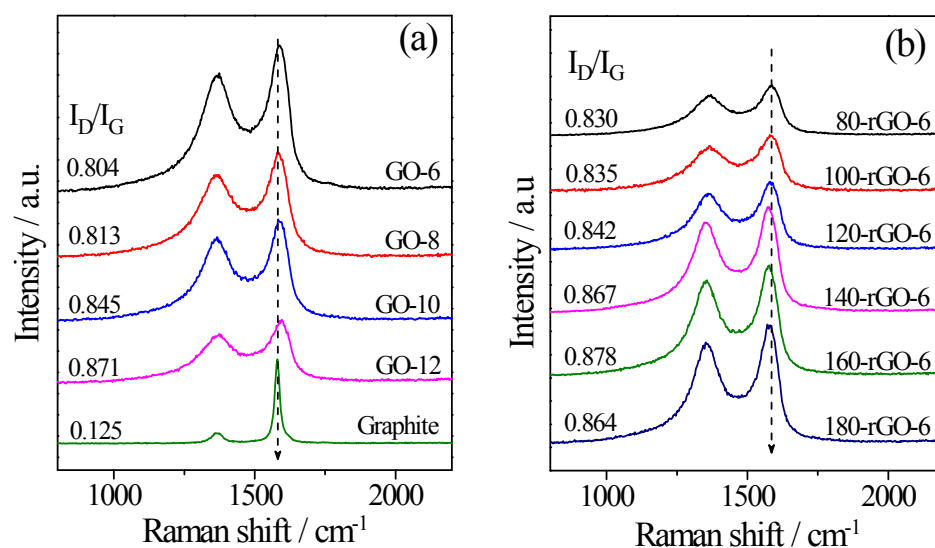


Fig. S1 Raman spectra of GO-X (X=6, 8, 10 and 12) and Y-rGO-6 (Y=80, 100, 120, 140, 160 and 180).