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Influence of functional groups on toxicity of carbon nanomaterials

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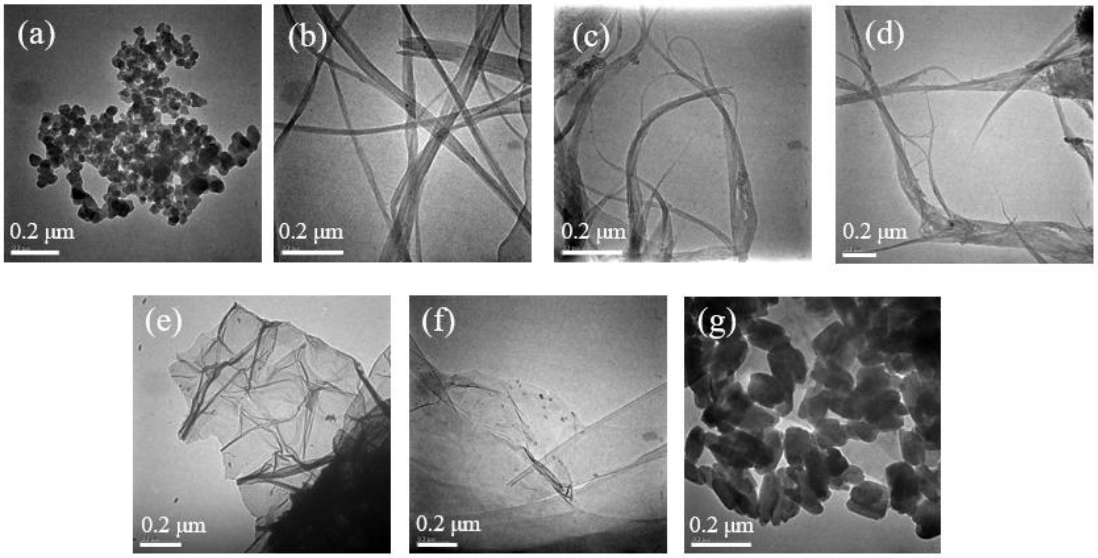


Figure S1. Morphology of (a) SB4A, (b) SWCNT, (c) SWCNT-OH, (d) SWCNT-COOH, (e) graphene, (f) graphene oxide and (g) thermally treated graphene oxide at 200 °C in nitrogen.

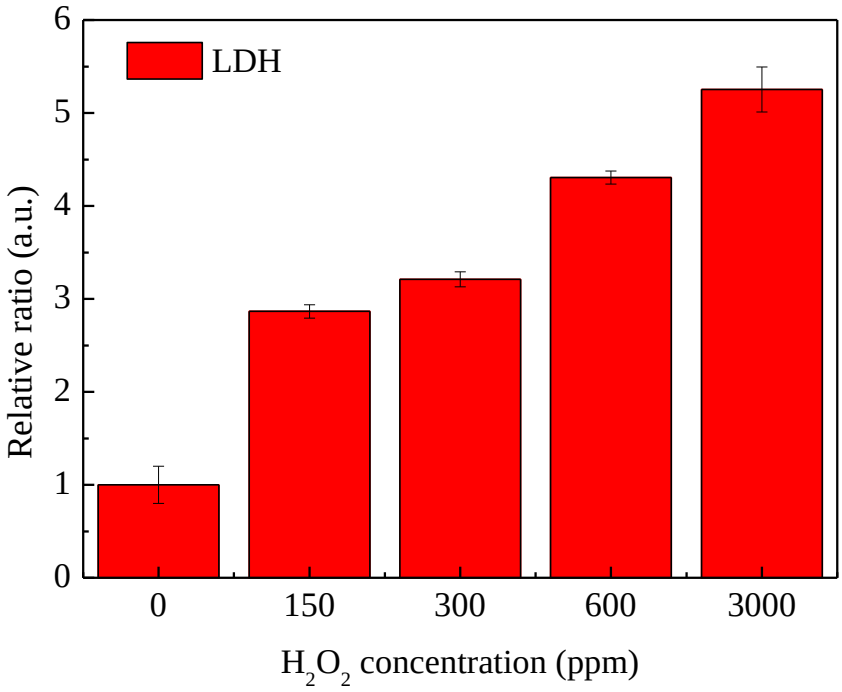
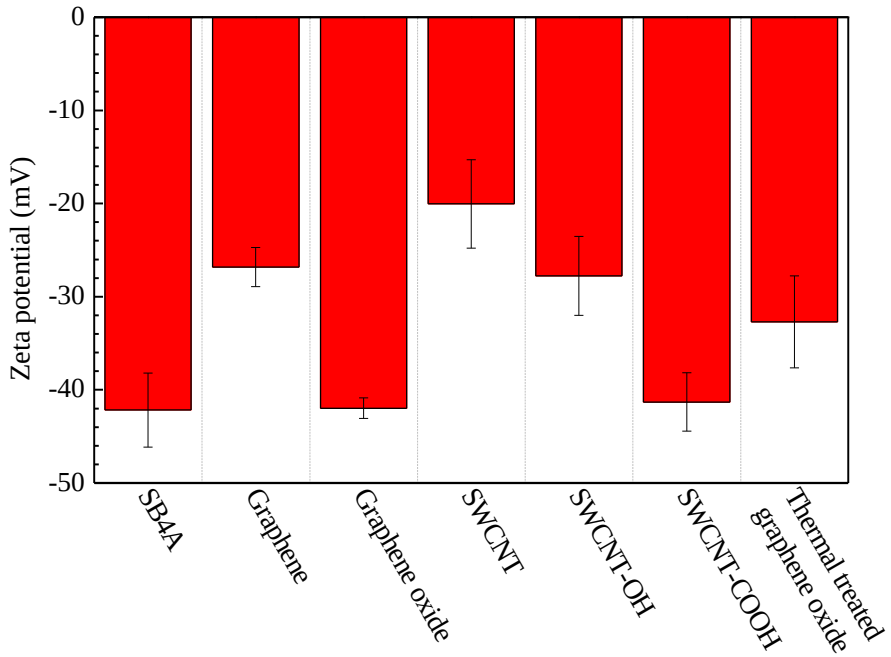


Figure S2. Positive control experiment results for LDH assay using different concentration of H_2O_2.



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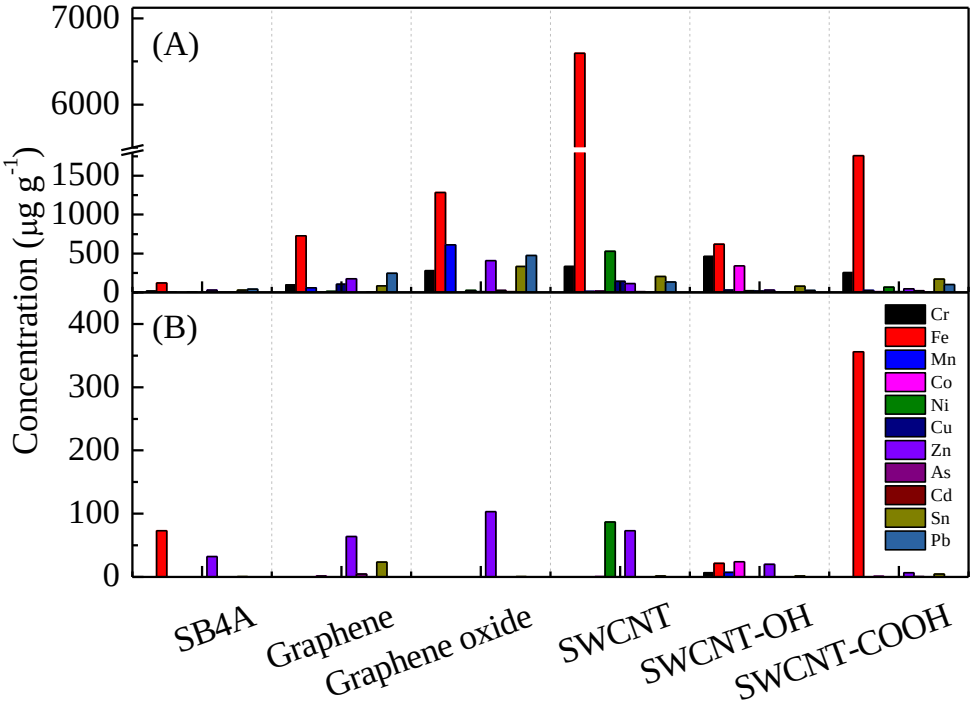
22 Fig. S3. Zeta potentials of carbon different nanomaterials.



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24 Figure S4. Content of metals in carbon nanomaterials (A) after digested with HNO_3, (B)

25 after sonicated for 30 min in water.

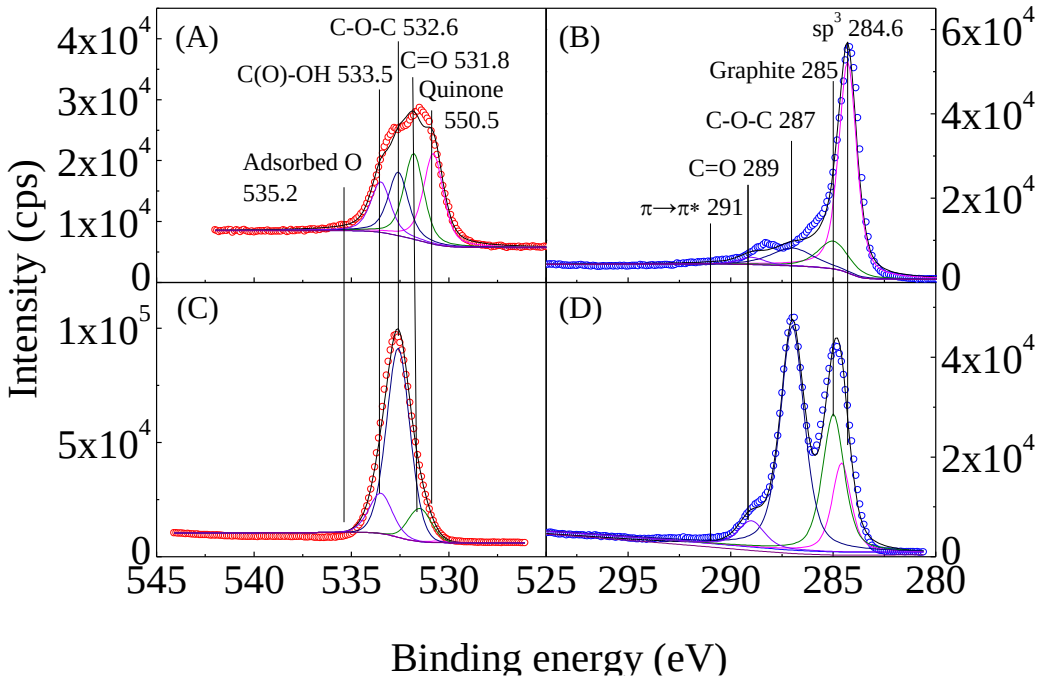

Figure S5. O1s and C1s XPS spectra of (A) and (B) for thermally treated graphene oxide in N_2 flow at 200 °C; (C) and (D) for graphene oxide.

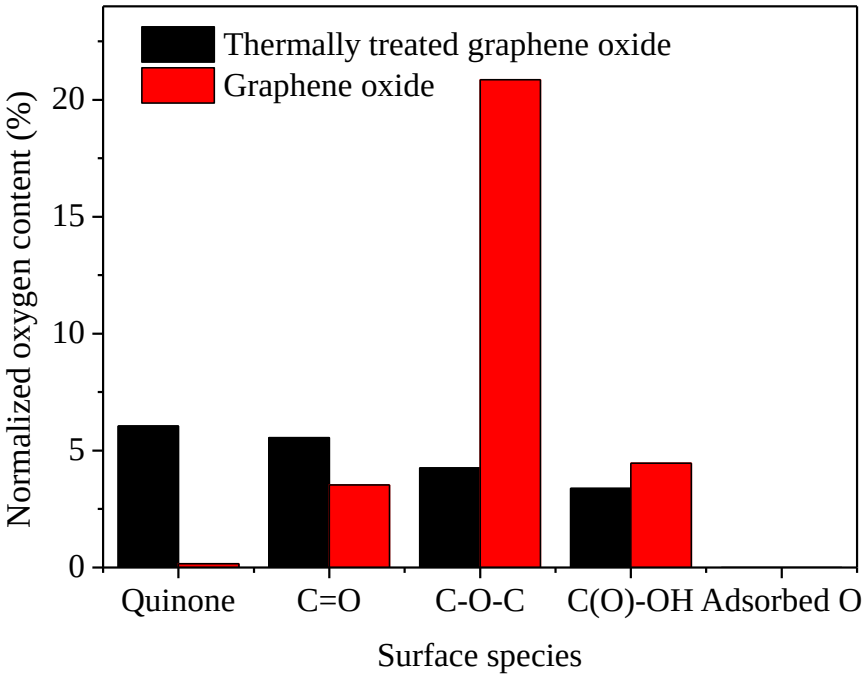

Figure S6. Species distribution of thermally treated graphene oxide in N_2 flow at 200 °C and graphene oxide.