

Supplementary Information

Deposition of Co_3O_4 nanoparticles onto the exfoliated graphite oxide sheets

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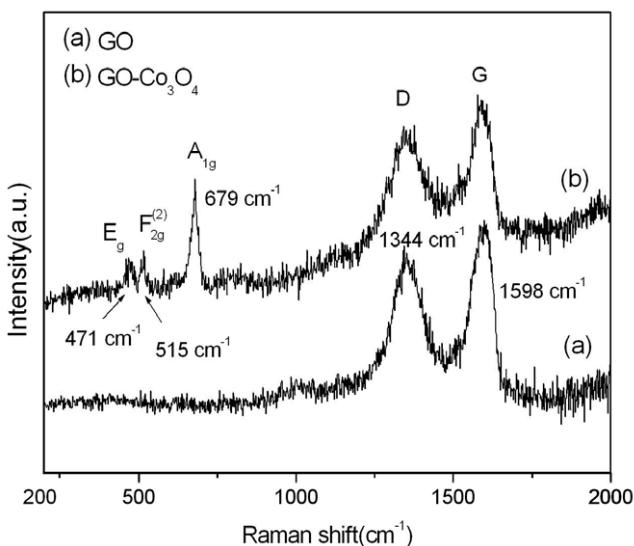


Figure 1S Raman spectra of (a) GO and (b) the GO-Co₃O₄ NPs nanocomposite

Figure 1S shows the Raman spectra of GO and the GO-Co₃O₄ NPs. In the Figure 1S(a), two prominent peaks of GO appearing at around 1344 and 1598 cm⁻¹ are attributed to the D and G bands, respectively. In the spectrum of GO-Co₃O₄ NPs, the D and G bands of GO still exist, while the band at 679 cm⁻¹ is attributed to the characteristics of the octahedral sites (CoO₆), which are assigned to the A_{1g} species in the O_h⁷ spectroscopic symmetry. In addition, the Raman bands with medium intensity located at 471 and 515 cm⁻¹ have the E_g and F_{2g}⁽²⁾ symmetry, respectively.

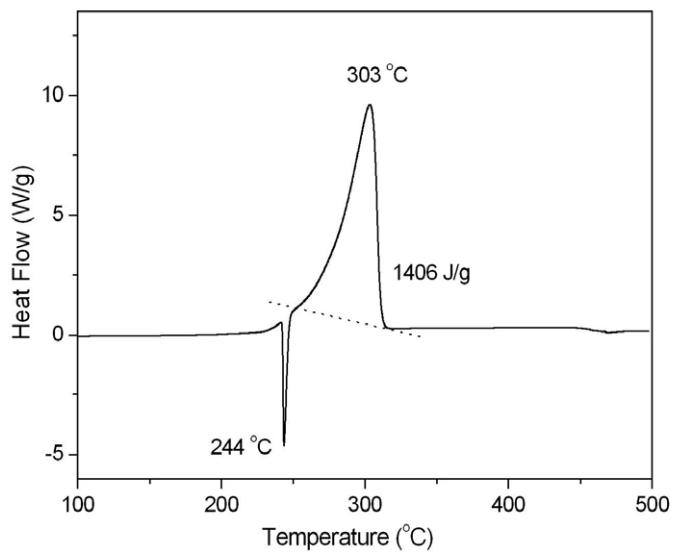


Figure 2S DSC curves for the decomposition of AP with 2% Co_3O_4 -GO composite assembled with mechanical stirring.