

Supporting information

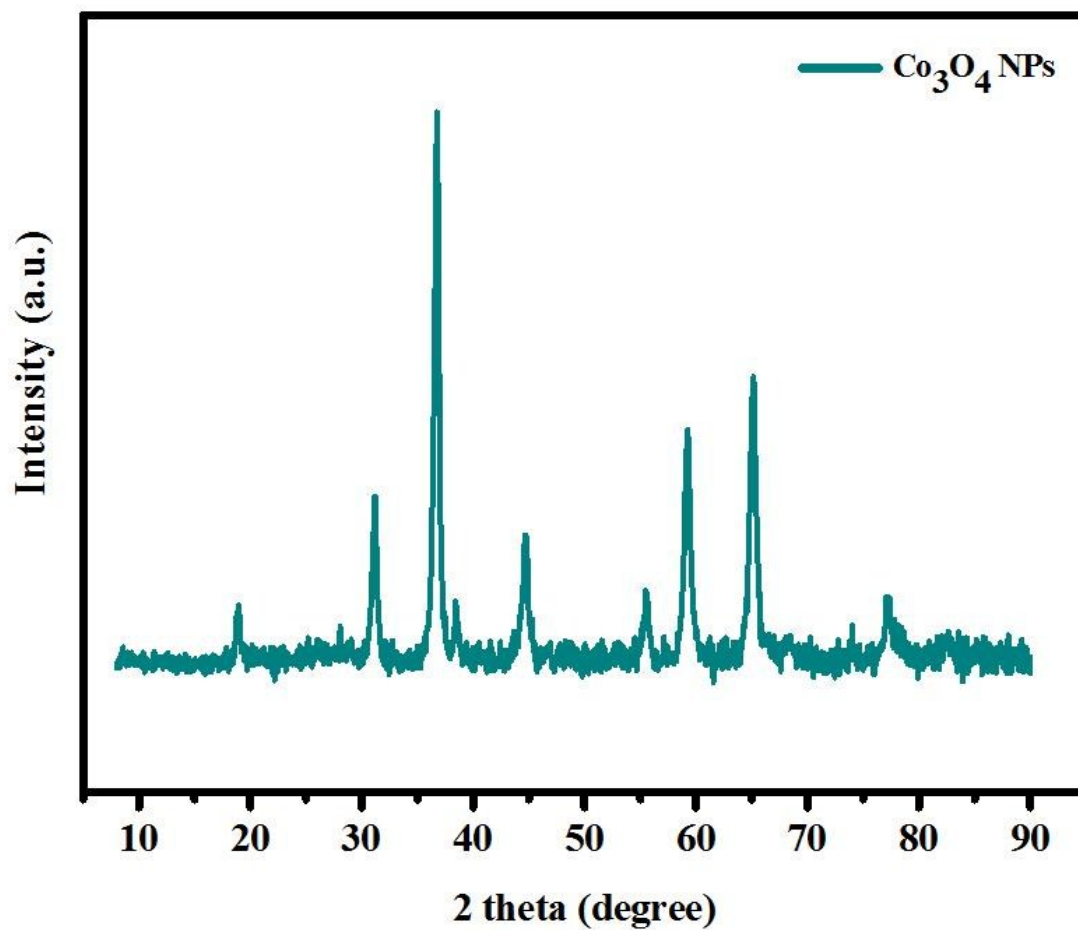


Fig. S1

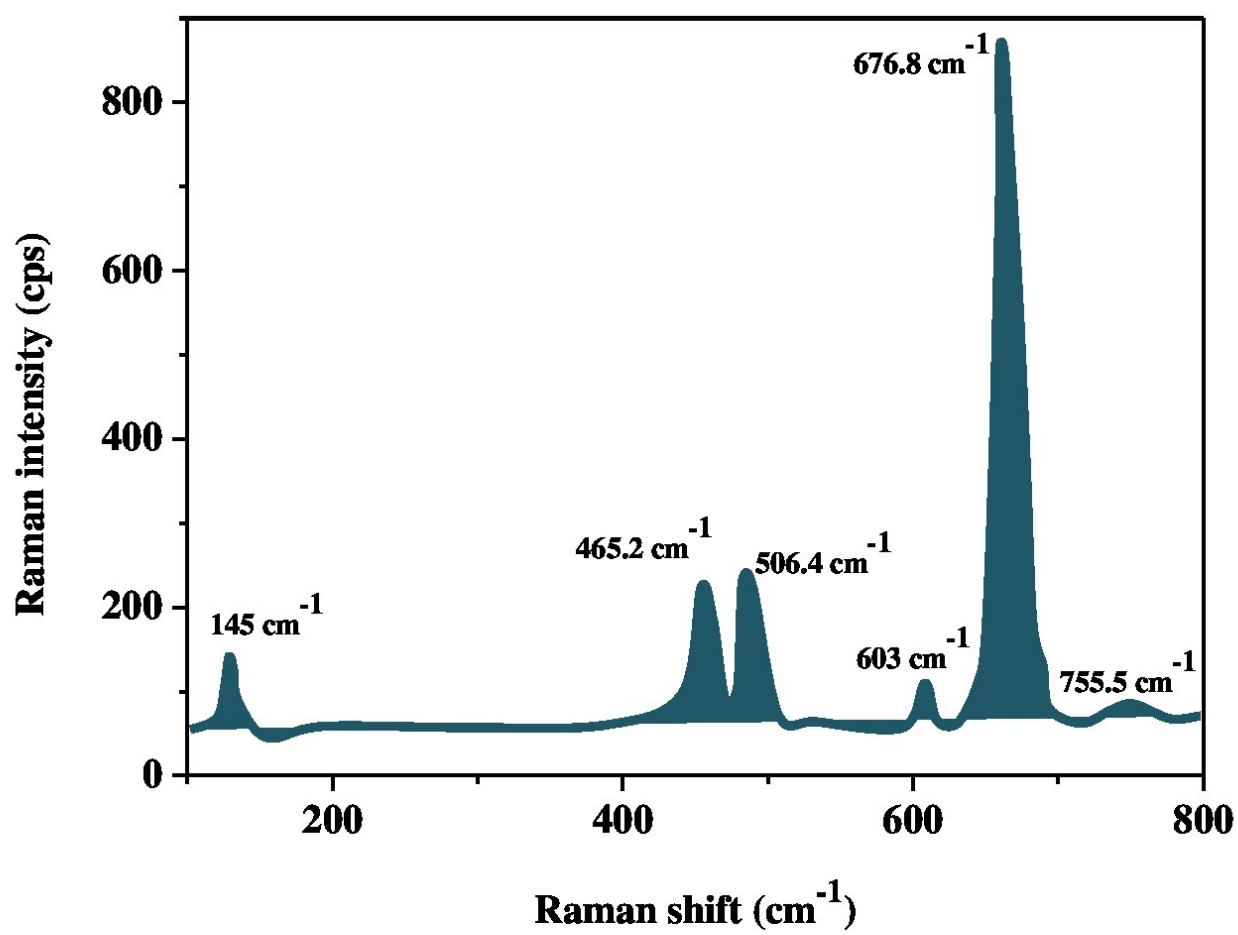


Fig. S2

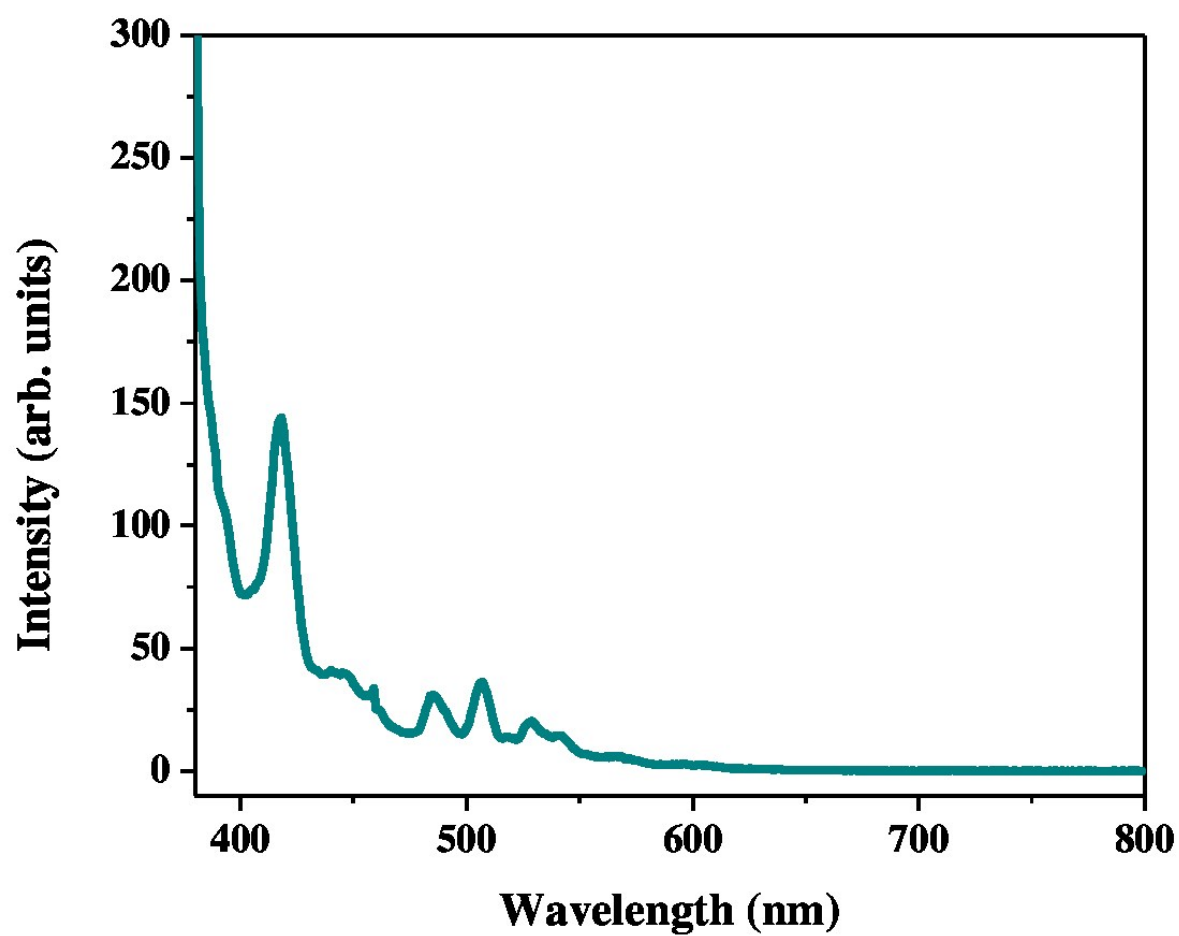


Fig. S3

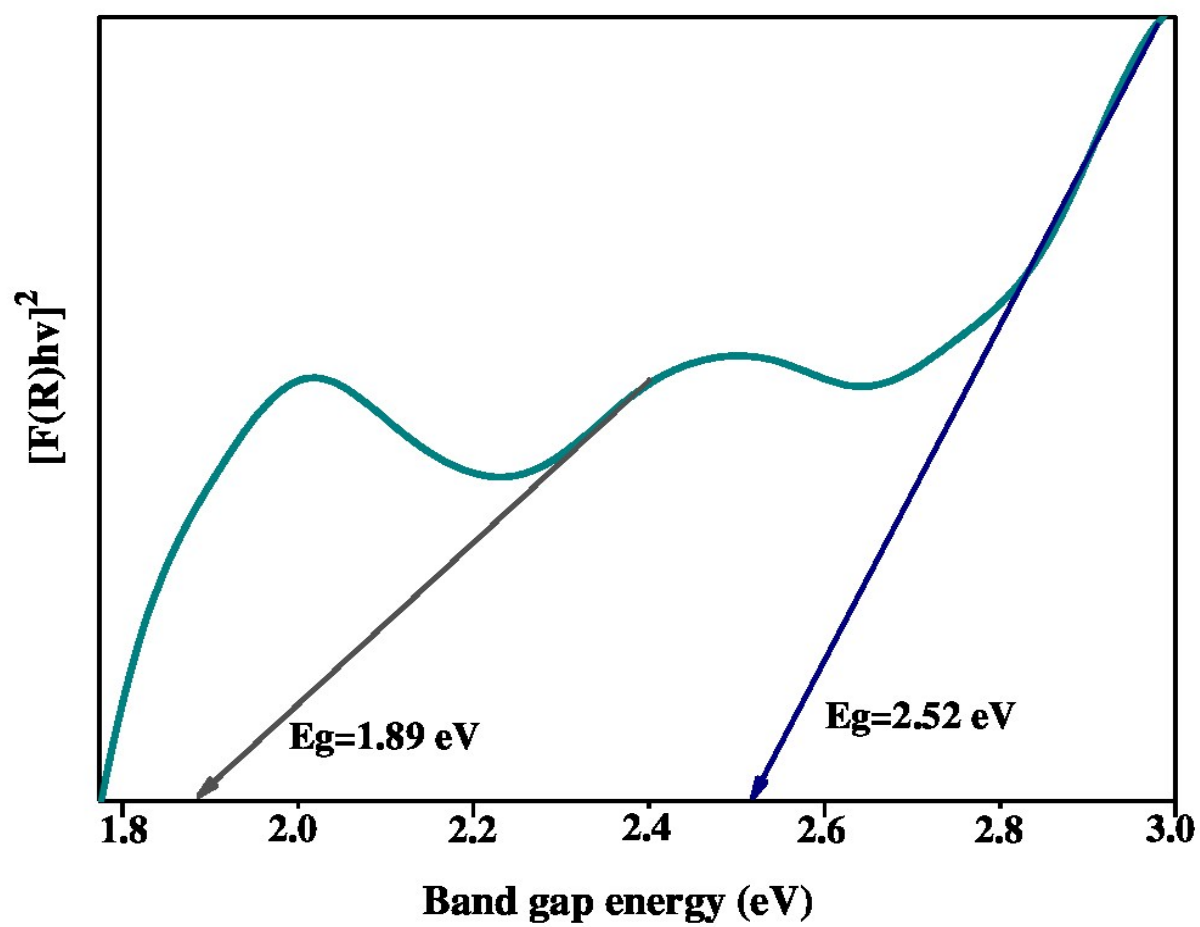


Fig. S4

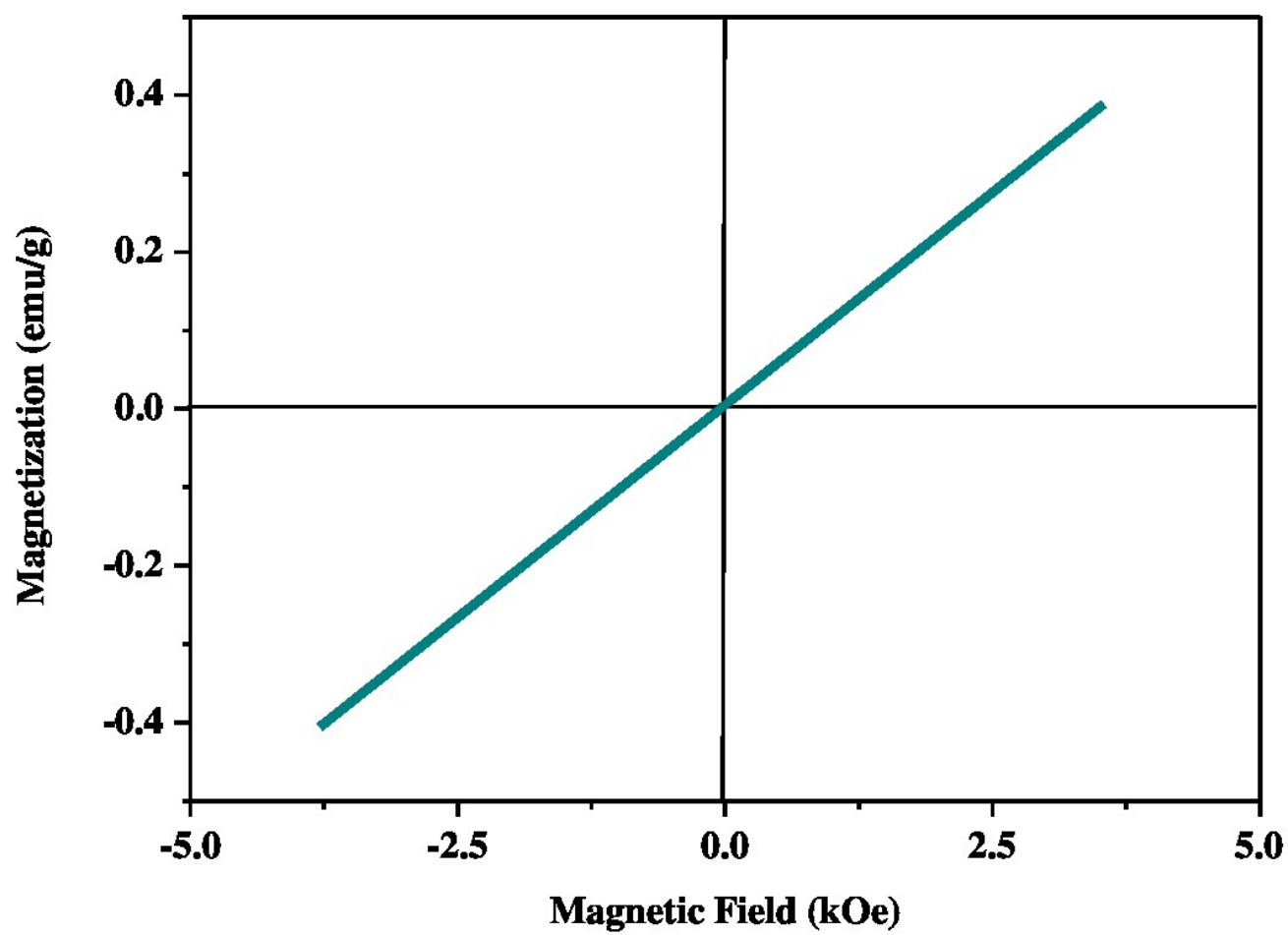


Fig. S5

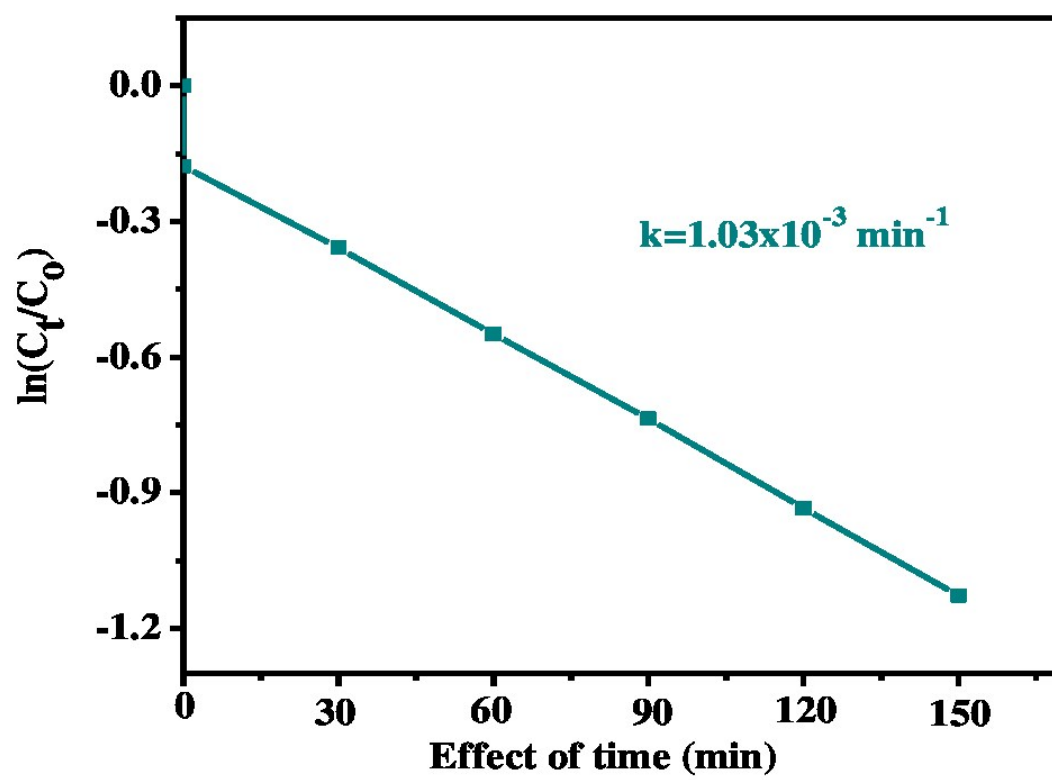


Fig. S6

Fig. S1. X-ray diffraction (XRD) pattern of Co_3O_4 -NPs.

Fig. S2. Raman spectrum of Co_3O_4 -NPs.

Fig. S3. Photoluminescence spectra of Co_3O_4 -NPs at room temperature.

Fig. S4. UV-Visible diffuse reflectance spectra of Co_3O_4 -NPs.

Fig. S5. Magnetic hysteresis loops of Co_3O_4 -NPs.

Fig. S6. Kinetic plots of $\ln (C_t/C_0)$ versus reaction time (t, mins) on the PCD of TDW in the presence of Co_3O_4 -NPs.