

Fig. S1. Pseudo first-order plots for catalytic degradation of CR dye, in the presence of NaBH_4 , and the nanocatalysts, Fe_3O_4 , $\text{Fe}_3\text{O}_4@\text{Ag}$ and $\text{Fe}_3\text{O}_4@\text{Au}$.

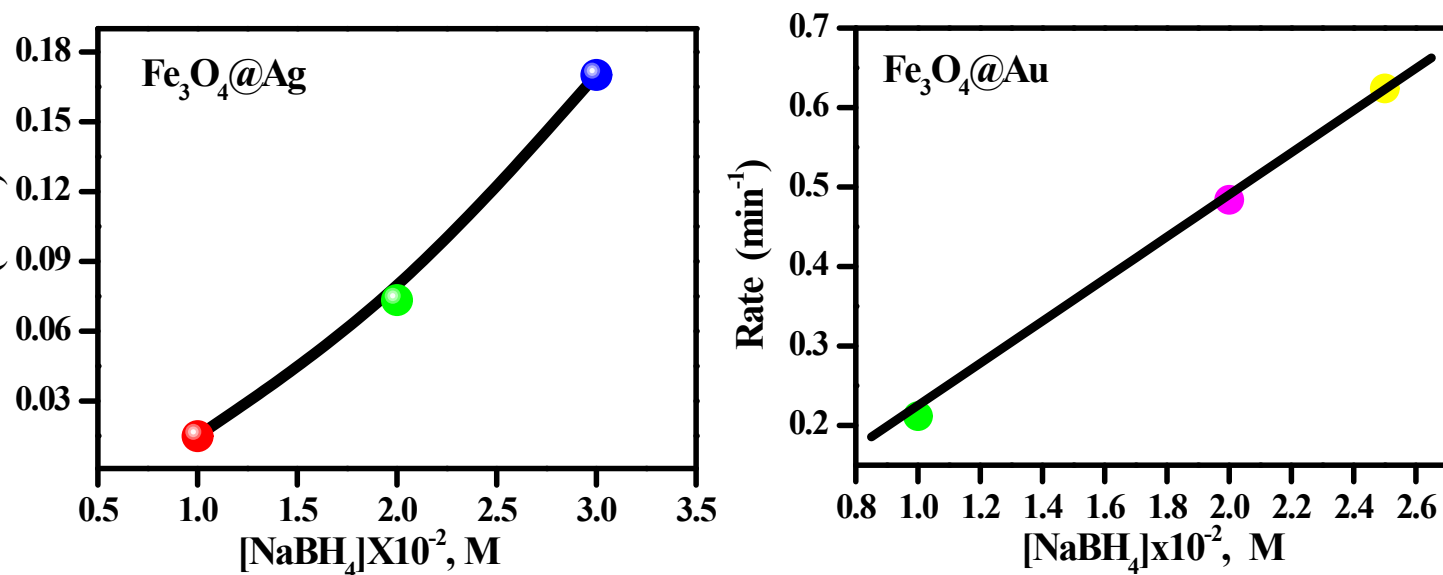


Fig.S2. The effect of NaBH_4 concentrations on reaction rate, $[\text{CR}] = 5.0 \times 10^{-5}\text{M}$, and the amount of catalyst = 2

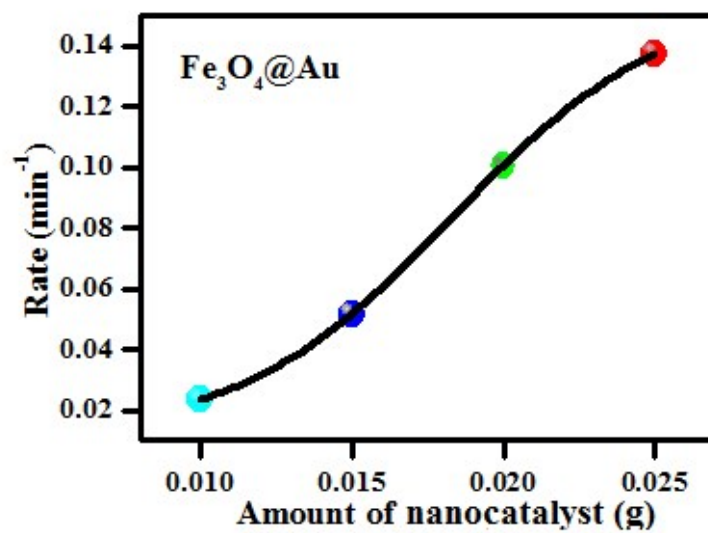
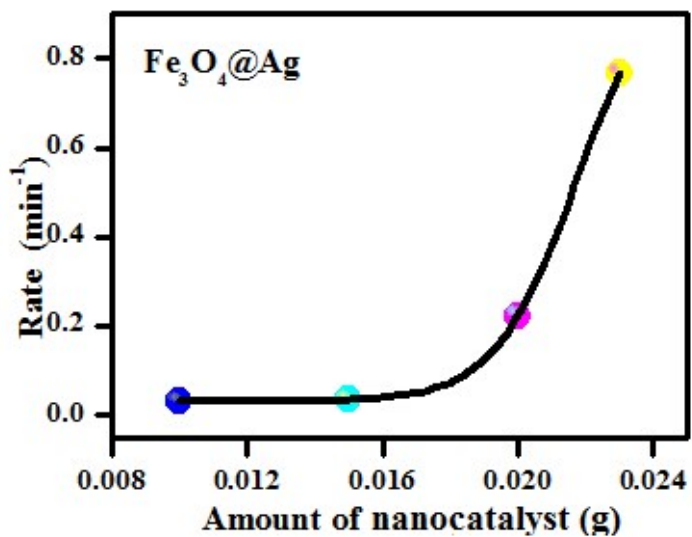


Figure S3 .The effect of nanocatalyst dose on the reaction rate, $[\text{NaBH}_4] = 2.5 \times 10^{-2} \text{ M}$, and $[\text{CR}] = 5.0 \times 10^{-5} \text{ M}$.