Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2015

Supplementary Material

Adsorption kinetics, isotherms and thermodynamic

1. Adsorption Kinetics

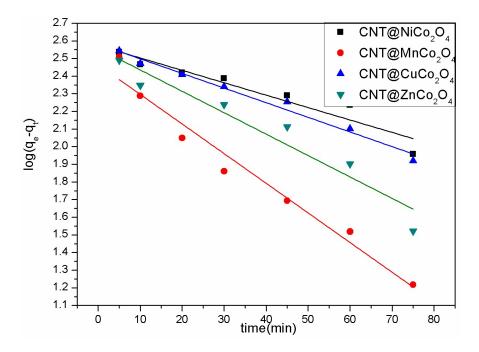


Fig.S1. Plot of the pseudo-first-order kinetic model for MO on CNT@MCo₂O₄ at the initial solution concentration of 600mg/L.

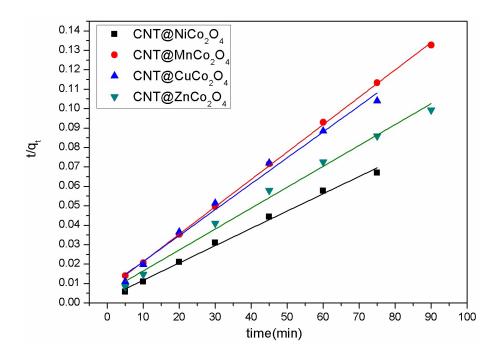
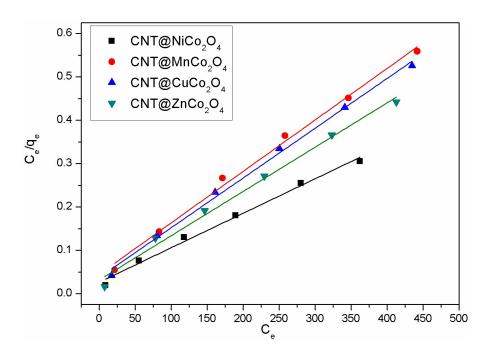
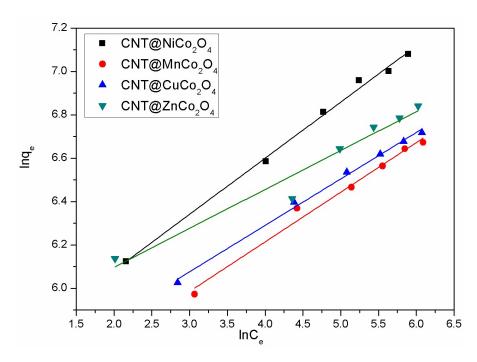


Fig.S2. Plot of the pseudo-second-order kinetic model for MO on CNT@MCo $_2$ O $_4$ at the initial solution concentration of 600mg/L.

2. Adsorption Isotherms



 $\label{eq:Fig.S3} \textbf{Eangmuir} \ adsorption \ isotherm \ plots \ for \ MO \ adsorption \ onto \ CNT@MCo_2O_4$ at 293K



 $\label{eq:Fig.S4} \textbf{Freundlich adsorption isotherm plots for MO adsorption onto CNT@MCo}_2O_4$ at 293K

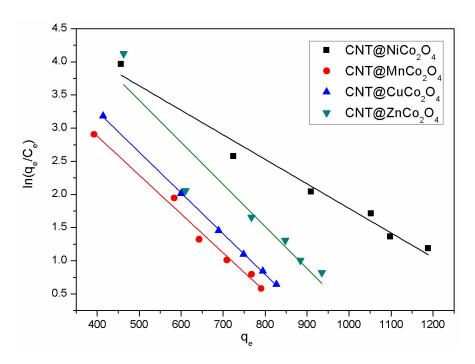


Fig.S5. Plots of ln q_e/C_e versus q_e of CNT@MCo₂O₄ at 293K