## **Supplementary Materials**

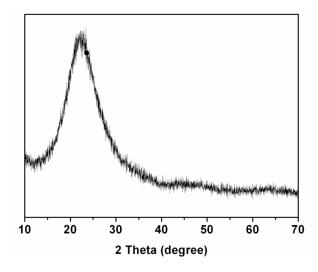


Figure S1. X-ray diffraction (XRD) pattern of core-shell composite.

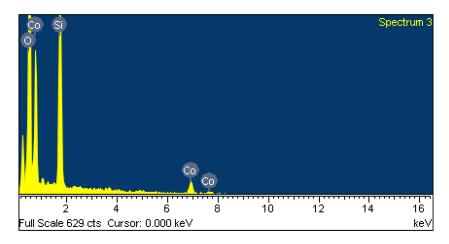
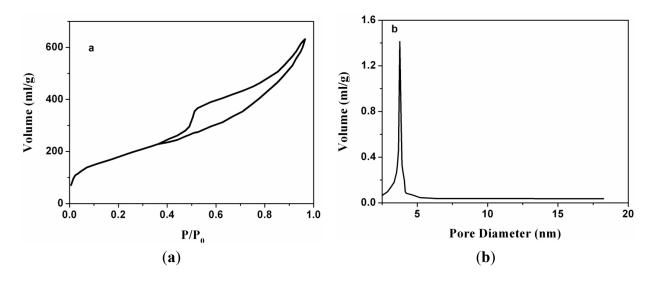


Figure S2. Energy dispersive X-ray spectra (EDS) pattern of core-shell composite.



**Figure S3.**  $N_2$  adsorption-desorption isotherm (a) and pore-size distribution (b) of core-shell composite.

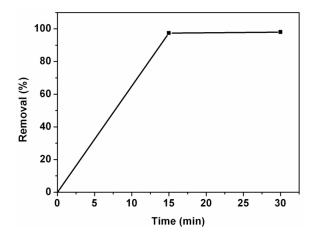


Figure S4. Effect of time on percent removal of Rhodamine B (RB).

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