

Self-Assembled 3D Flower-like Hierarchical $\text{Fe}_3\text{O}_4/\text{K}_x\text{MnO}_2$ Core-shell Architectures and Their Application for Removal of Dye Pollutants

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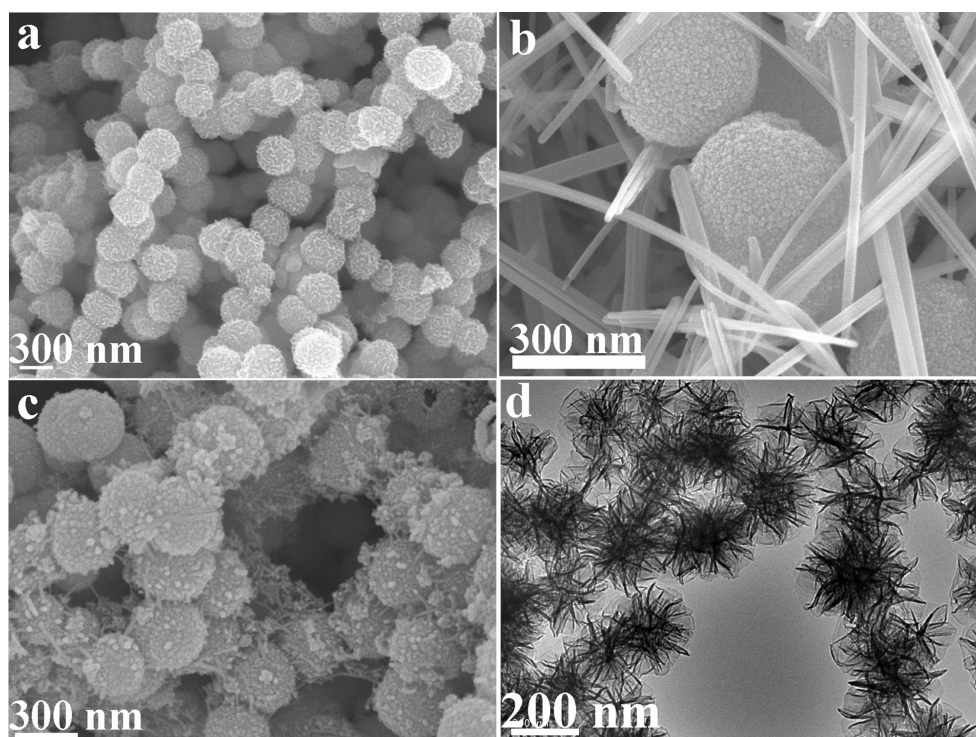


Fig. S1 SEM images of $\text{Fe}_3\text{O}_4/\text{K}_x\text{MnO}_2$ composites prepared at temperature of (a) 120 °C and (b) 160 °C. SEM and TEM images of the products prepared using KMnO_4 solutions with different concentrations of (c) 1.0 and (d) 4.0 mg mL^{-1} .

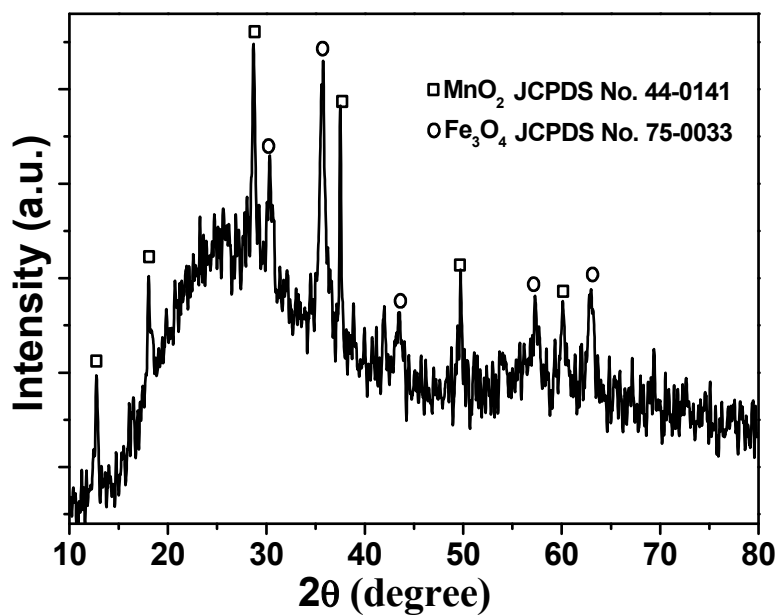


Fig. S2 XRD patterns of the products prepared at 160 °C.

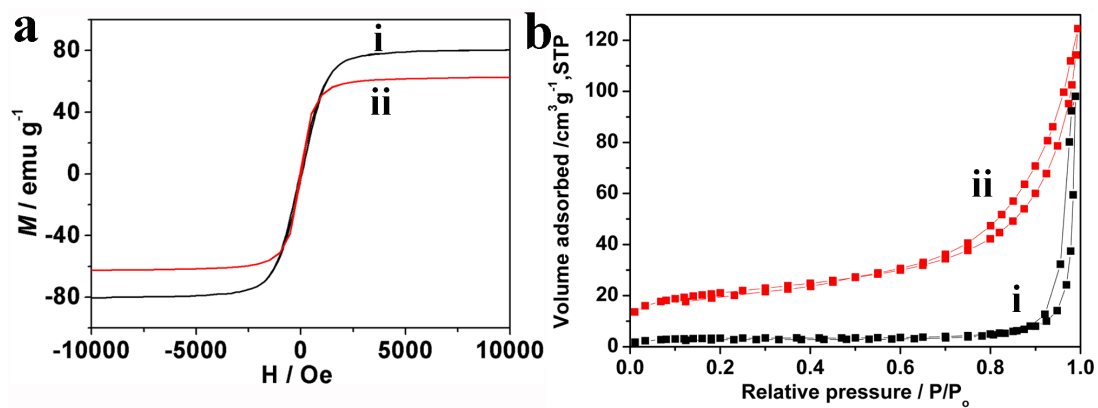


Fig. S3 (a) Room-temperature magnetization curves of (i) Fe₃O₄ and (ii) Fe₃O₄/K_xMnO₂ composites. (b) N₂ gas adsorption-desorption isotherm of (i) Fe₃O₄ and (ii) Fe₃O₄/K_xMnO₂ composites.

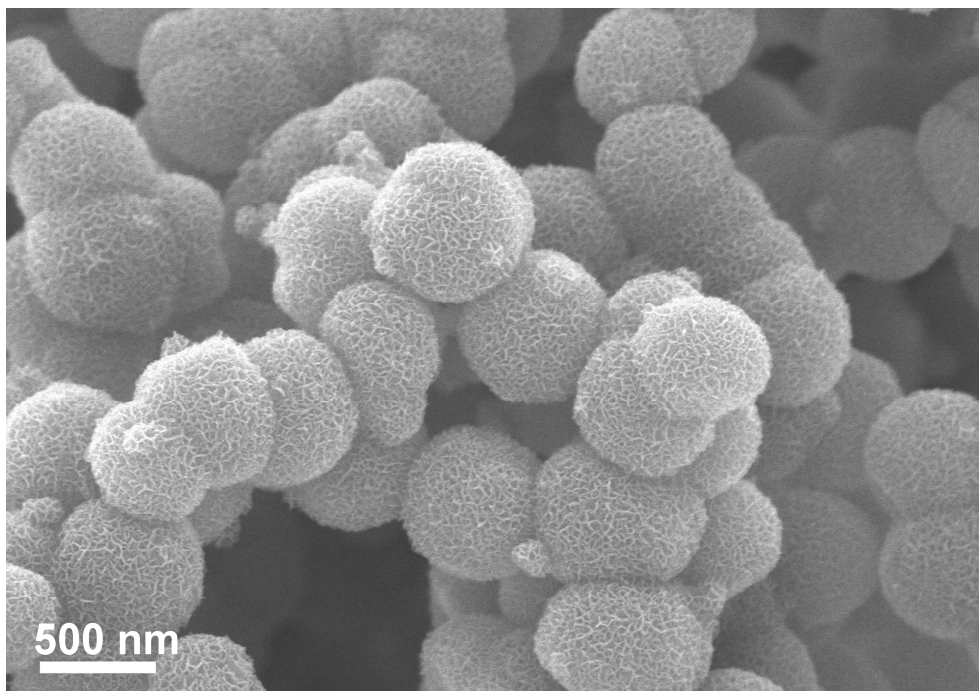


Fig. S4 SEM image of the products after regenerating five times.