

Supporting Information

Core-shell Nanostructure of α -Fe₂O₃/Fe₃O₄: Synthesis and Photocatalysis for Methyl Orange

Figure S1. XRD of the oxidization product for Sample 2 (a) and Sample 4 (b).

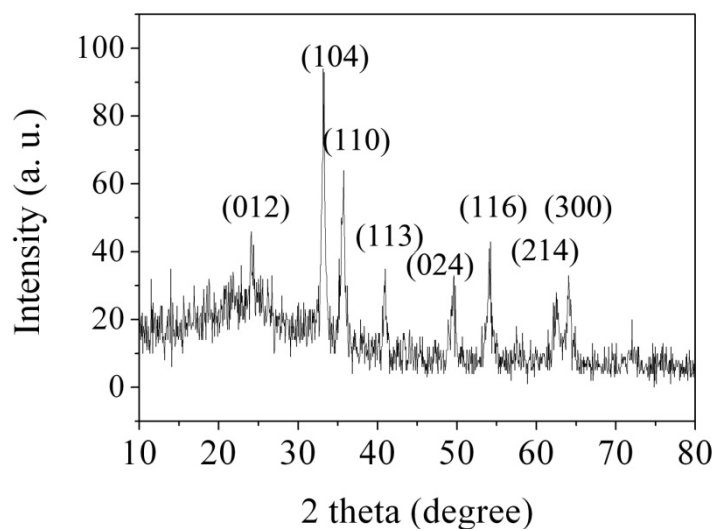
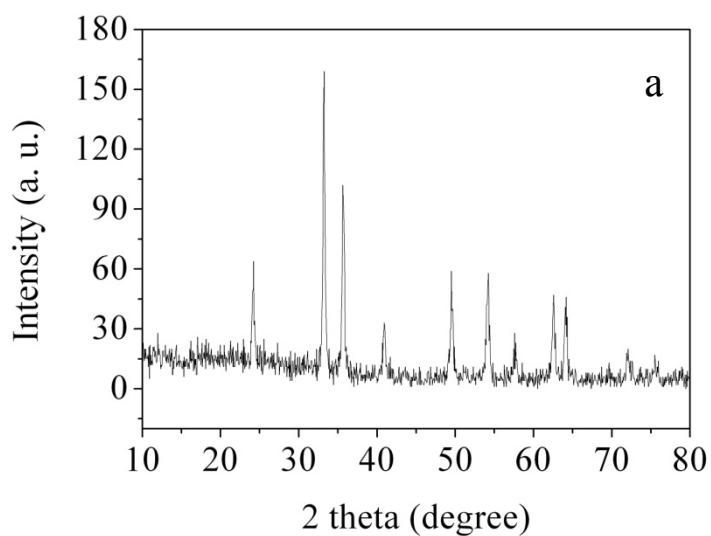


Figure S2. XRD of the prepared Fe₃O₄ for Sample 1 (a) and Sample 4 (b).

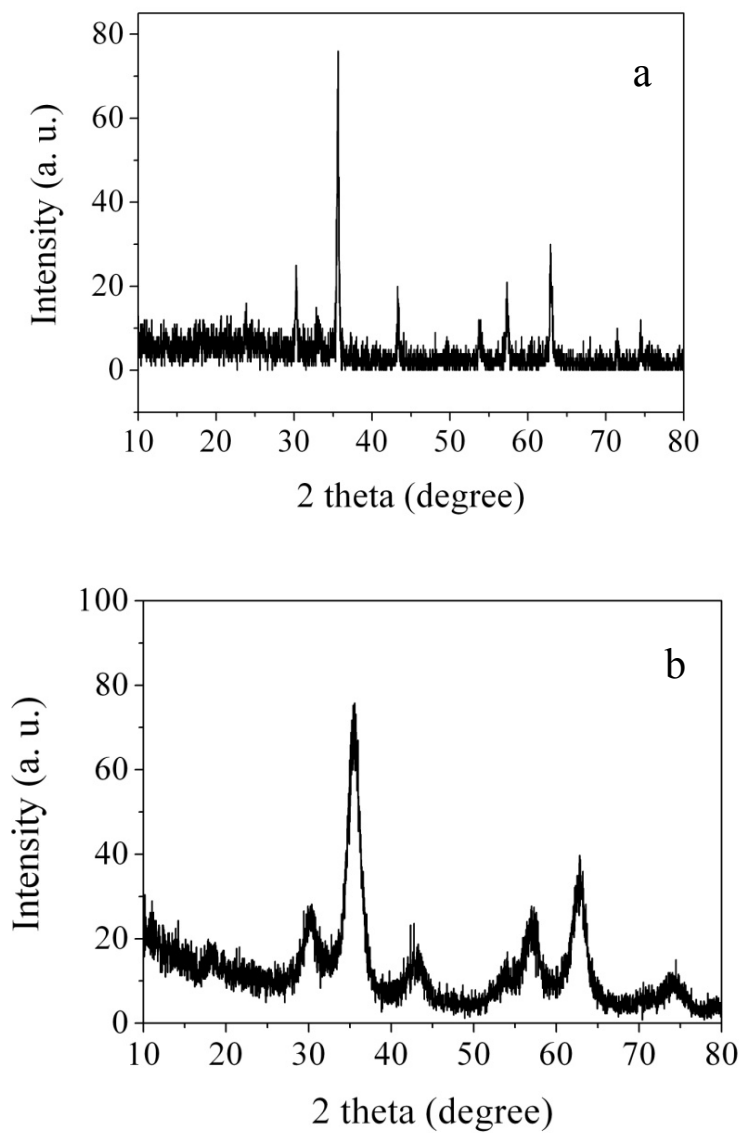


Figure S3. SAED patterns of the Fe_3O_4 nanoparticles (a) and $\alpha\text{-Fe}_2\text{O}_3/\text{Fe}_3\text{O}_4$ core-shell nanostructure (b). The crystalline faces in red color are $\alpha\text{-Fe}_2\text{O}_3$.

