

Electronic supplementary information

Experimental procedure. FSCNC (20 mg) was incubated with MB (20 mL, pH 7.5, 50 mg/L) for 1 h before the test. Then, H₂O₂ was added for the catalysis group. Without adding H₂O₂, the sample was regarded as the adsorption group. At time intervals of 5 min, the absorbance of MB solution was recorded for catalysis group. For adsorption group, the time intervals were 10 min.

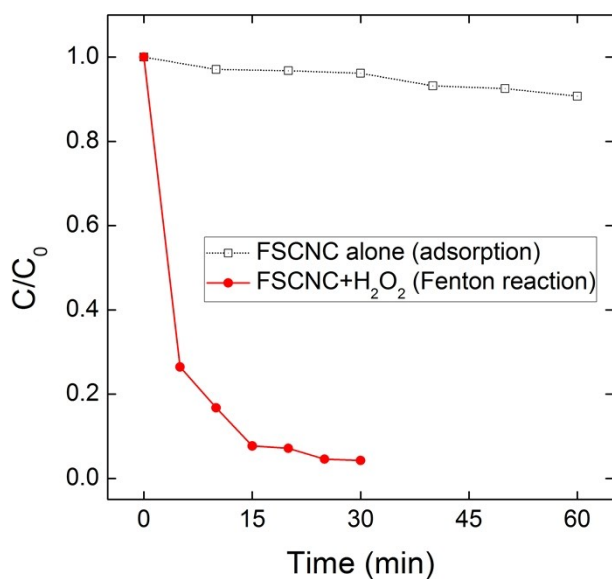


Fig. S1. Catalysis vs adsorption during the decoloration of MB.

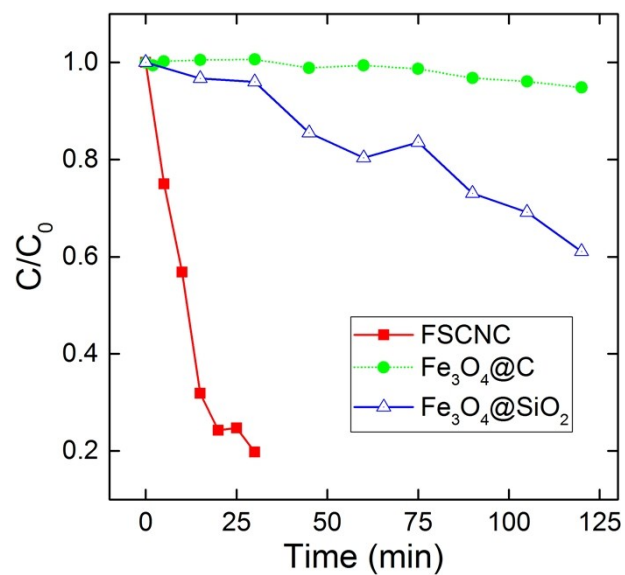


Fig. S2. Tolerance of FSCNC-H₂O₂, Fe₃O₄@C-H₂O₂ and Fe₃O₄@SiO₂-H₂O₂ systems against tertiary butanol. For FSCNC-H₂O₂ and Fe₃O₄@SiO₂-H₂O₂, the tertiary butanol concentration was 1.05 mol/L; for Fe₃O₄@C-H₂O₂, the tertiary butanol concentration was 0.052 mol/L.