

Supporting Information

Co_xFe_{3-x}O₄ hierarchical nanocubes as peroxidase mimetics and their applications in H₂O₂ and glucose detection

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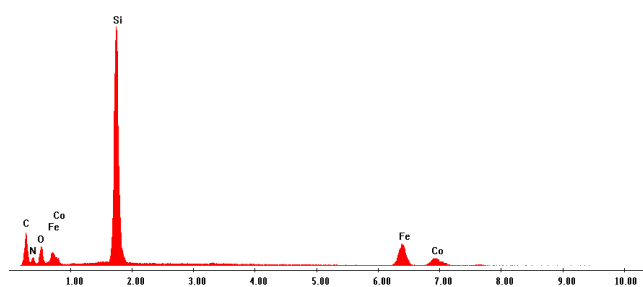


Fig.S1 EDX spectrum of CF nanocubes, in which the Si signal is originated from the substrate.

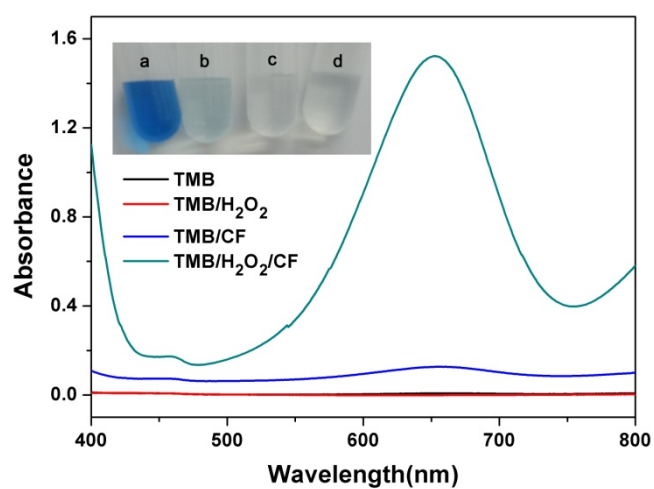


Fig.S2 UV-Vis spectra of TMB solution (black line), TMB-H₂O₂ (red line), TMB-CF solution (blue line) and TMB-H₂O₂-CF (green line) in pH 4.0 acetate buffer at room temperature. Inset: The optical photograph of aqueous solutions of TMB-H₂O₂-CF (a), TMB-CF (b), TMB-H₂O₂ (c) and TMB (d).

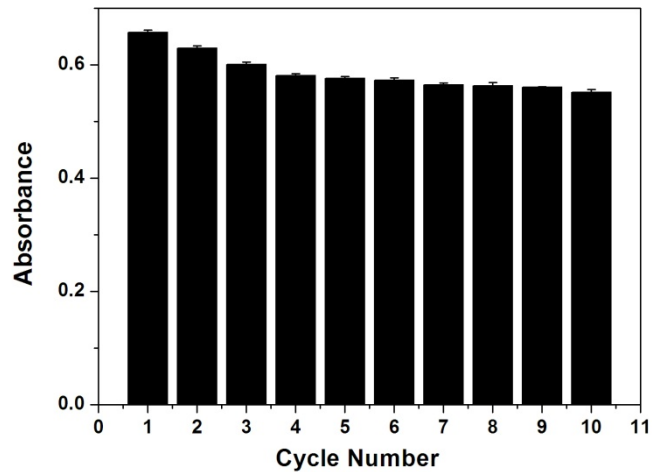


Fig.S3 Reusability of the CF nanocubes.

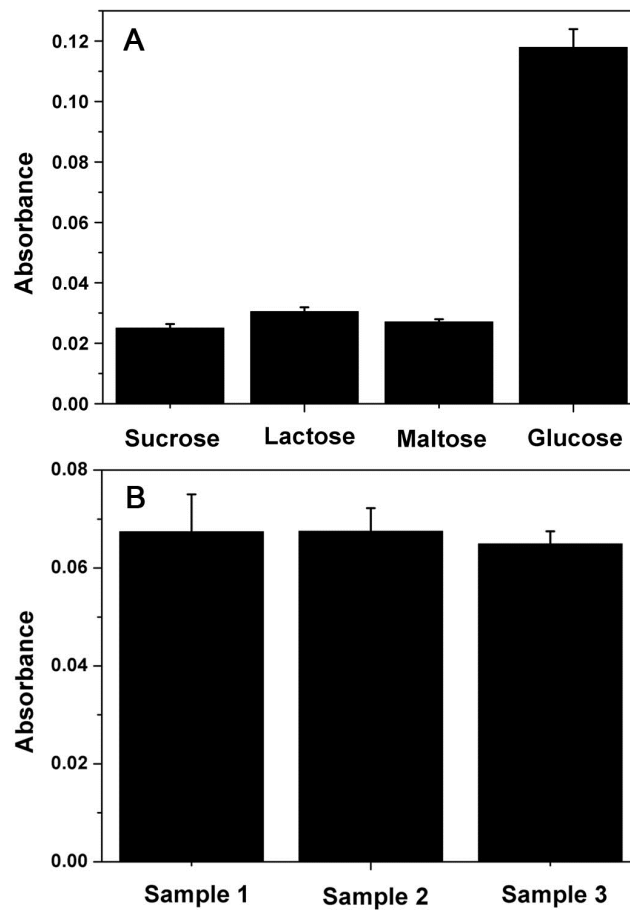


Fig.S4 Selectivity analysis for glucose detection by using 5mM sucrose, 5mM lactose, 5mM maltose and 0.5mM glucose (A). Glucose detection in human serum samples (B).