

Dual-emission ratio fluorescence for selective and sensitive
detection of ferric ion and ascorbic acid based on one-pot synthesis
of glutathione protected gold nanoclusters

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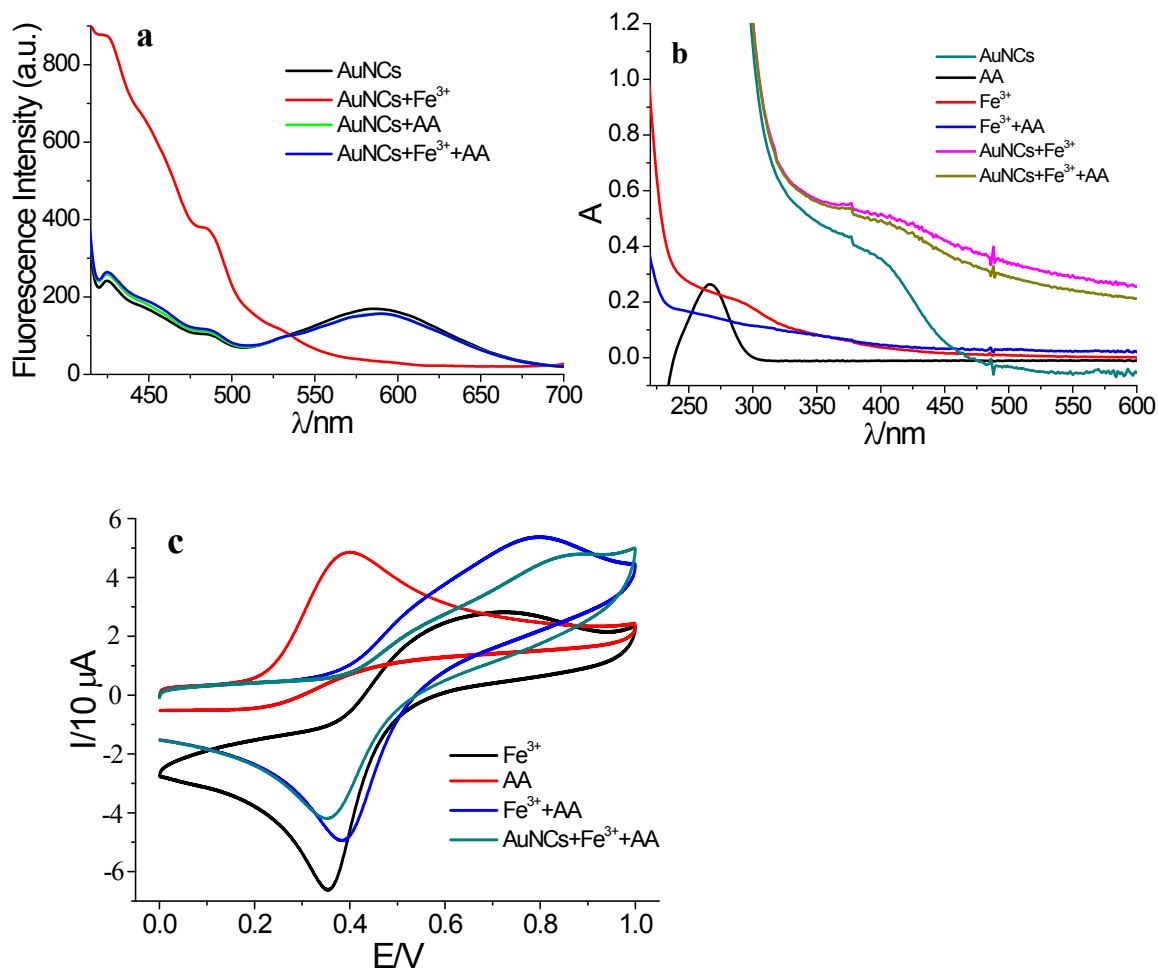


Figure S1 Fluorescence spectra of AuNCs, AuNCs+Fe³⁺, AuNCs +AA, and AuNCs+Fe³⁺+AA

(Ex=390 nm) (a), absorption spectra of AuNCs, Fe³⁺, AA, Fe³⁺+ AA, AuNCs+Fe³⁺ and

AuNCs+Fe³⁺+ AA (b), cyclic voltammetry curves of Fe³⁺, AA, Fe³⁺+AA and AuNCs+Fe³⁺+AA

(c). Concentration: AuNCs 0.05 mg mL⁻¹, Fe³⁺ 0.1 mM, AA 0.05 mM.

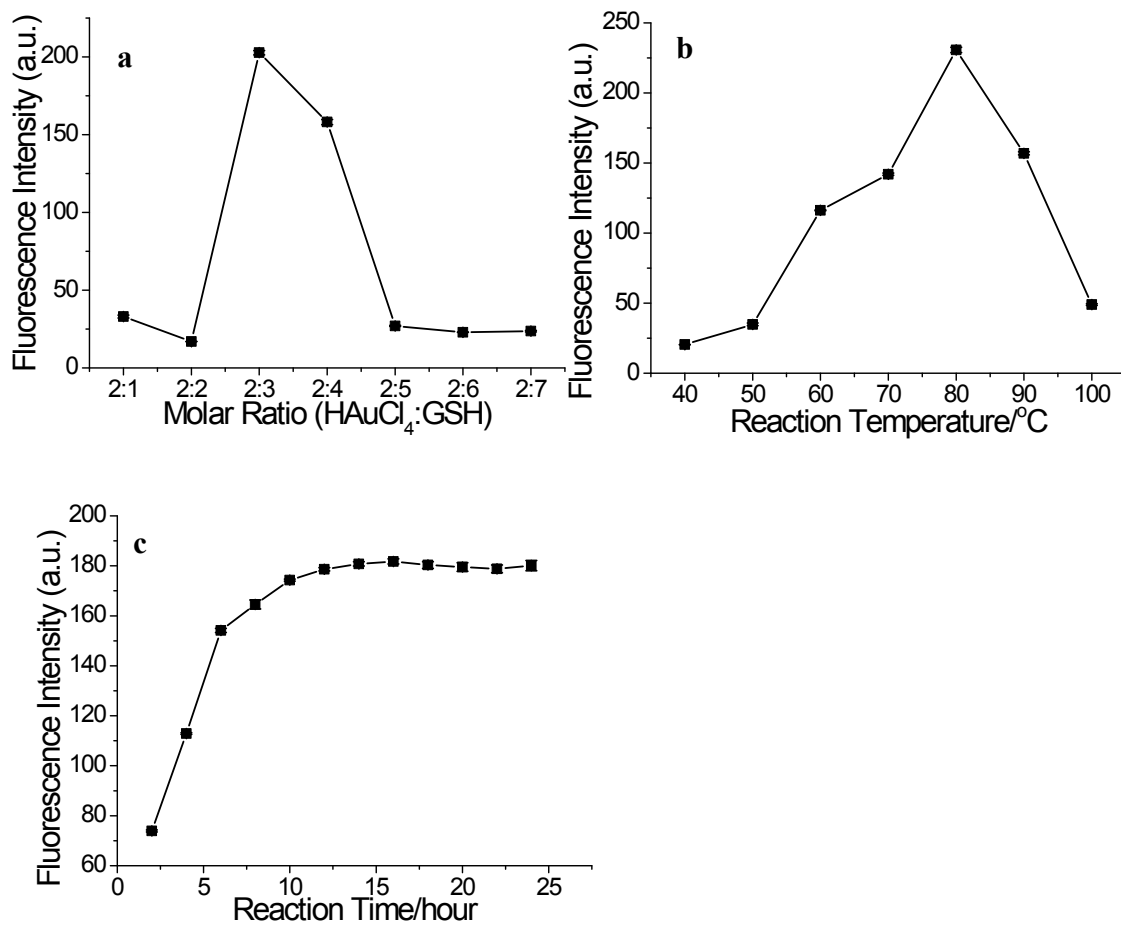


Figure S2 Influence of molar ratio of precursors (a), reaction temperature (b), and time (c) on the fluorescence of AuNCs.

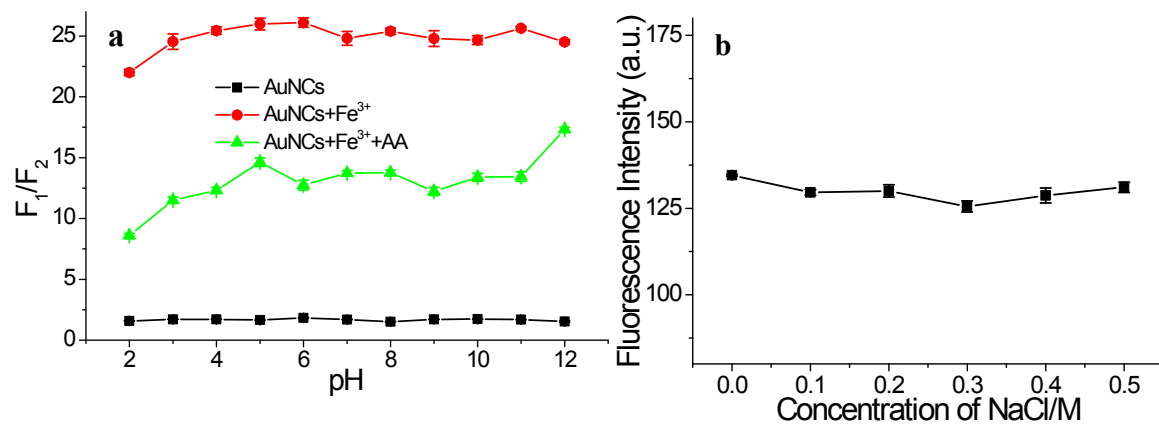


Figure S3 Effect of pH on the fluorescence ratio of AuNCs, AuNCs+Fe³⁺, AuNCs+ Fe³⁺+AA(a), and influence of NaCl concentration on the fluorescence intensity of AuNCs (b).