

Supplementary information

Papain-Stabilized Silver Nanoclusters: Dual Emission and Ratiometric Fluorescent Sensing of Ferrous Ion

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Figures and Table

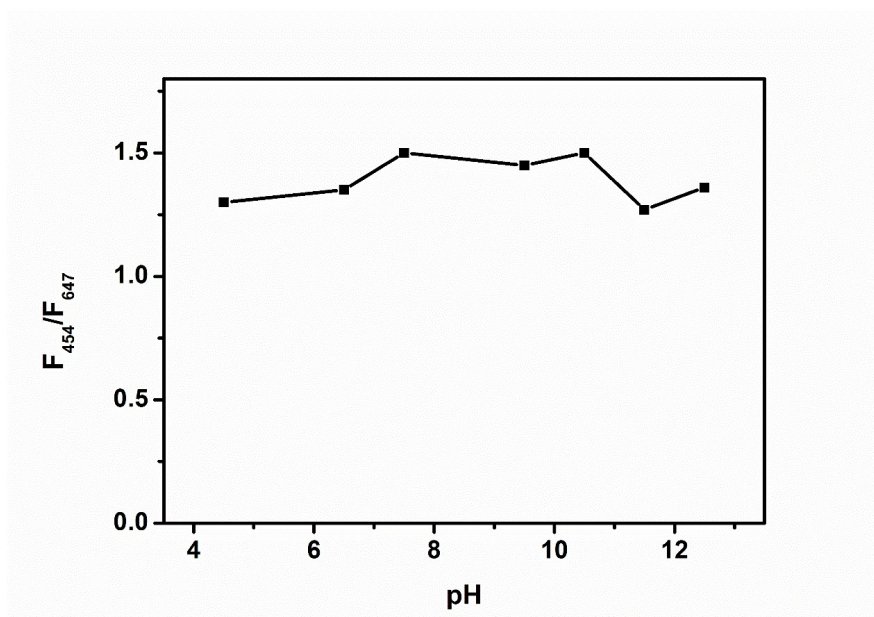


Fig.S1 The fluorescence intensity of papain-Ag NCs under different pH.

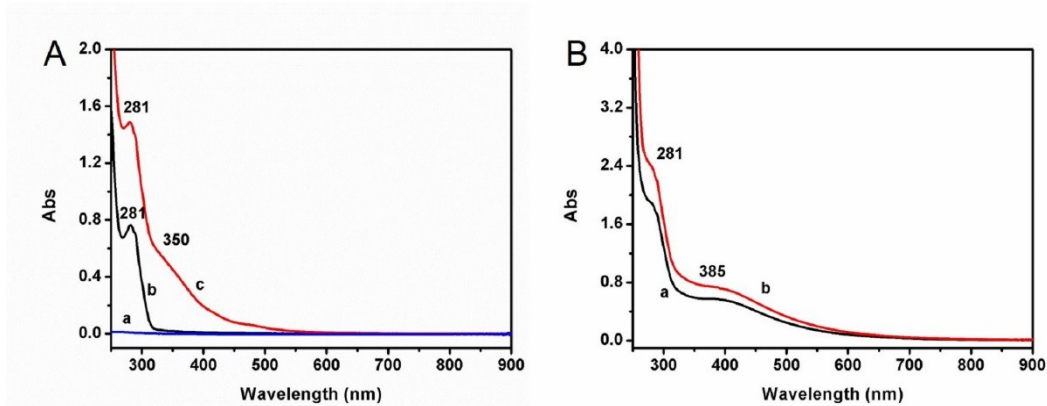


Fig.S2 (A) The UV-Visible spectra of (a) Fe²⁺, (b) papain and (c) papain + 200 μmol/L Fe²⁺. (B) The UV-Vis spectra of (a) papain-Ag NCs and (b) papain-Ag NCs + 200 μmol/L Fe²⁺.

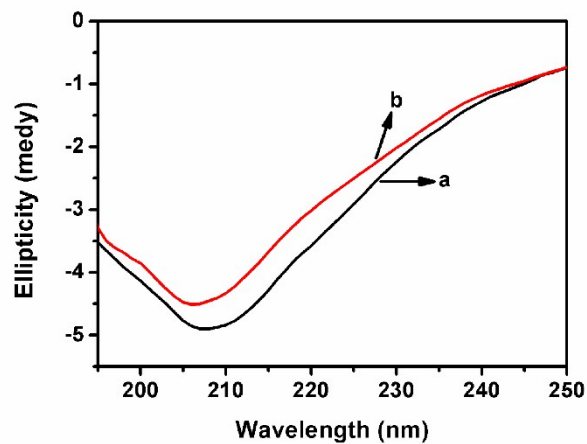


Fig.S3 CD spectra of (a) papain-Ag NCs (b) papain-Ag NCs + Fe²⁺ (50 μmol/L).

Table S1 Comparison of this study with other works for fluorescent detection of Fe²⁺.

probe	Linear range (μmol/L)	Detection limit (nmol/L)	Reference
GOTC	6.5-33/6.5-67	Not mentioned	1
Naph-Te	5-25	150	2

RhoNox-1	0.2-20	200	3
DansSQ	Not mentioned	3600	4
Cou-T and Rh-T	3-24	750	5
BSA-Au NCs	0.08-100	24	6
Au ₇ (DHLA) ₂ Cl ₂ nanoclusters	3-90	3800	7
Papain-Ag NCs	1.5-120	500	Our present work

References

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