

Supporting Information

Microwave-Assisted Green Synthesis of Ultrasmall Fluorescent Water-Soluble Silver Nanoclusters and Its Application in Chiral Recognition of Amino Acids

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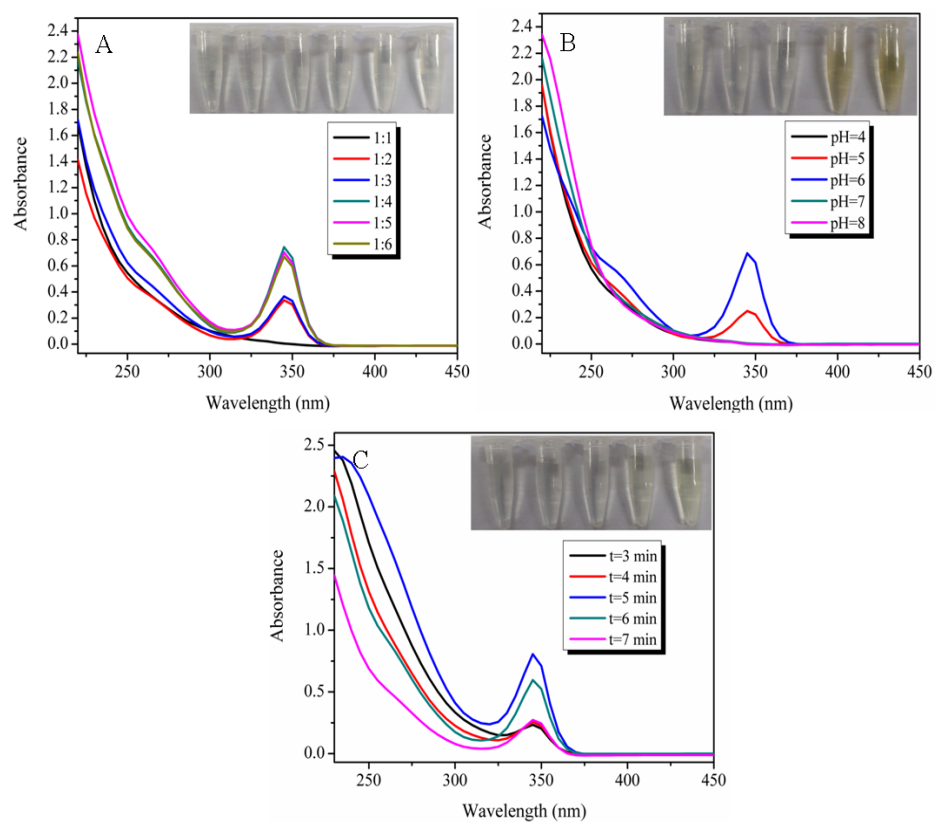


Fig. S1 UV-Vis absorption spectra of fluorescent AgNCs under different ratios of Ag^+ to L-GSH (A), different pH conditions (B), different microwave irradiation times (C). Inset: photographs of fluorescent AgNCs under daylight.

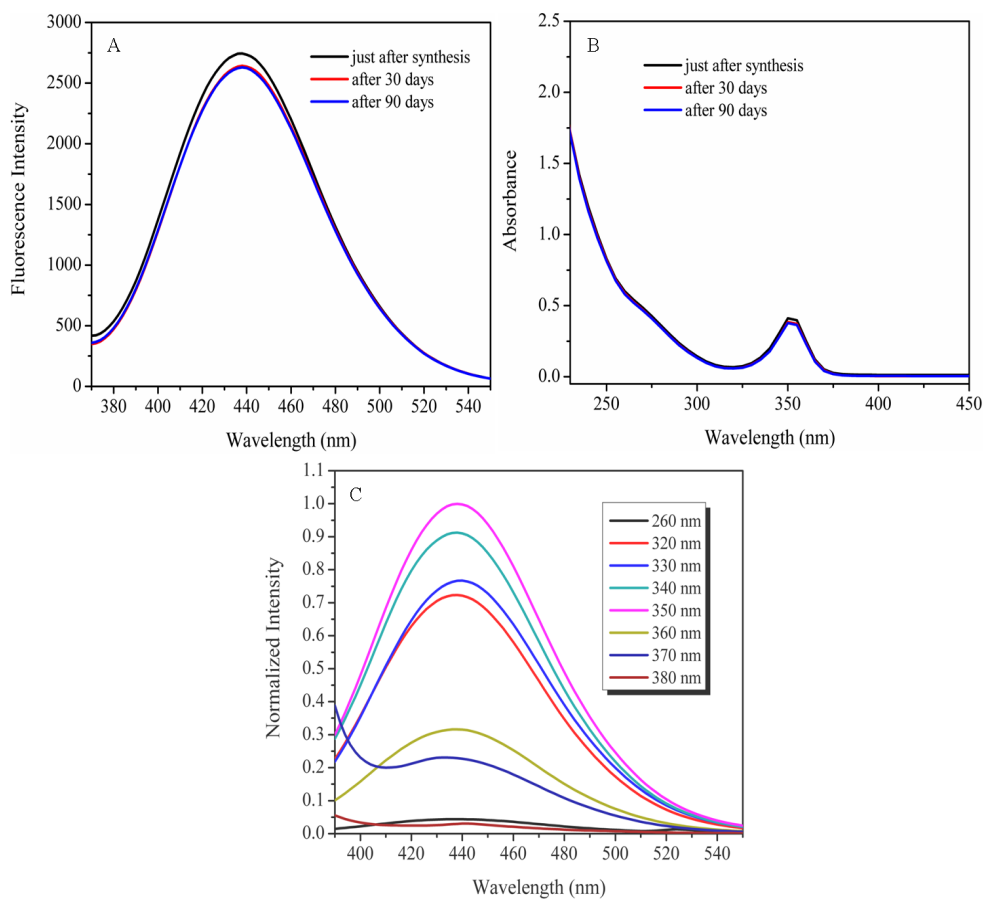


Fig. S2 A comparison of fluorescent AgNCs just after synthesis, after 1 month and 3 months storage in water: (A) absorption and (B) emission spectra. (C) Emission spectra of fluorescent AgNCs at different excitation wavelengths.

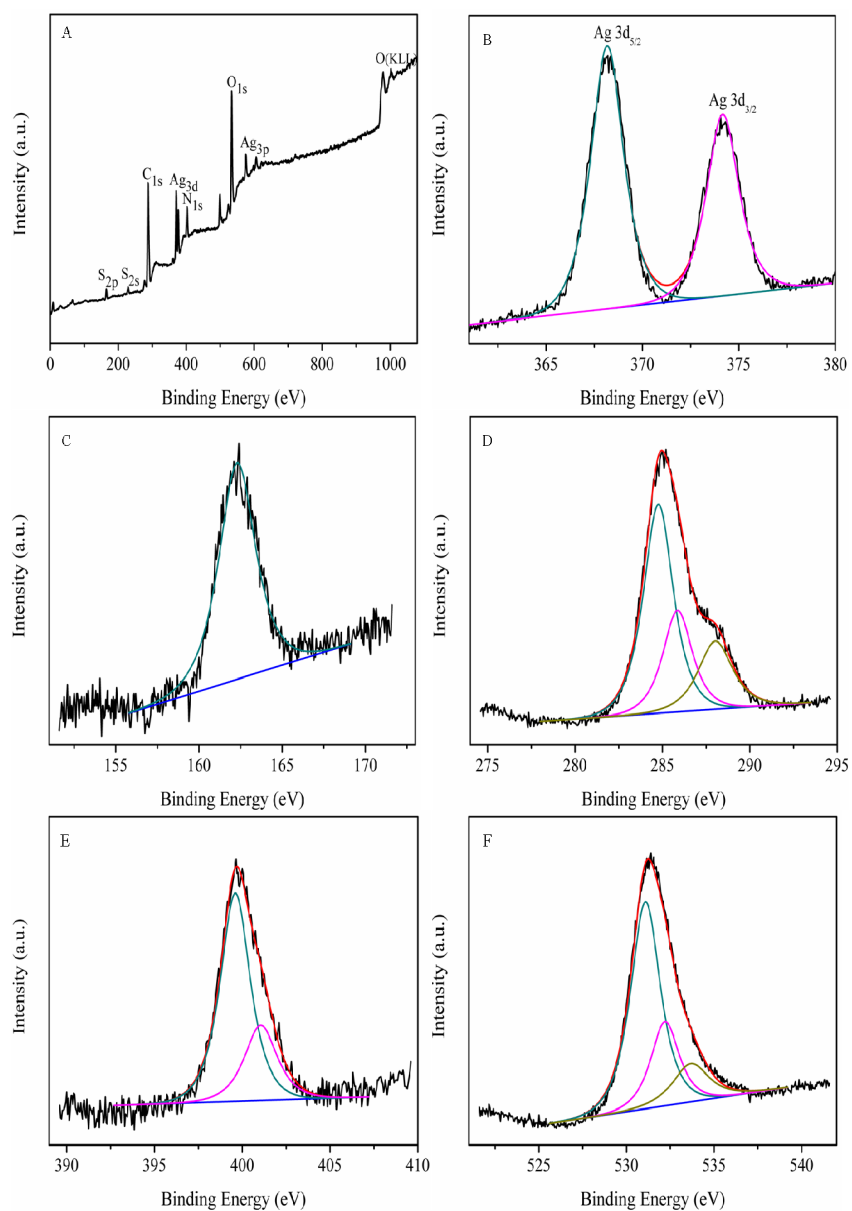


Fig. S3 (A) The XPS full scan spectra of the L-GSH-AgNCs, and (B) Ag 3d, (C) S 2p, (D) C 1s, (E) N 1s, (F) O 1s.

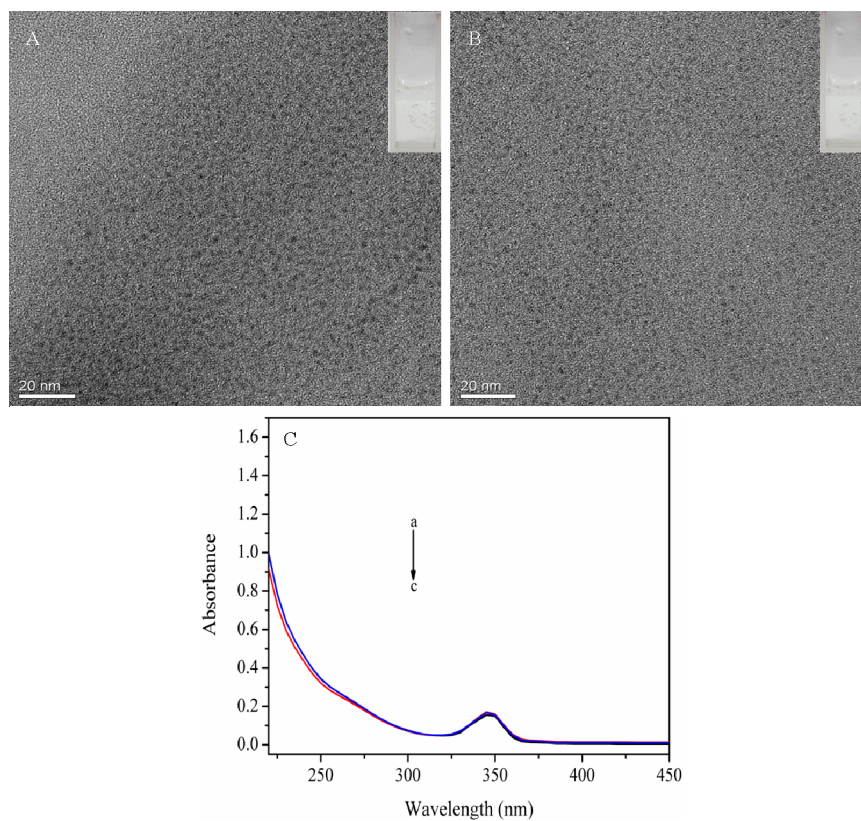


Fig. S4 TEM images of fluorescent AgNCs before (A) and after (B) the addition of L-cysteine. Inset: the images of AgNCs before and after the addition of L-cysteine. (C) UV-vis absorption of AgNCs in the L-cysteine solution with air (a), O₂ (b), and N₂ (c)-saturated.