

**Anti-aggregation of gold nanoparticles based colorimetric sensor for glutathione
with excellent selectivity and sensitivity**

Yan Li, Ping Wu, Hu Xu, Hua Zhang, and Xinhua Zhong*

*Key Laboratory for Advanced Materials, Department of Chemistry, East China University
of Science and Technology, Shanghai 200237, China*

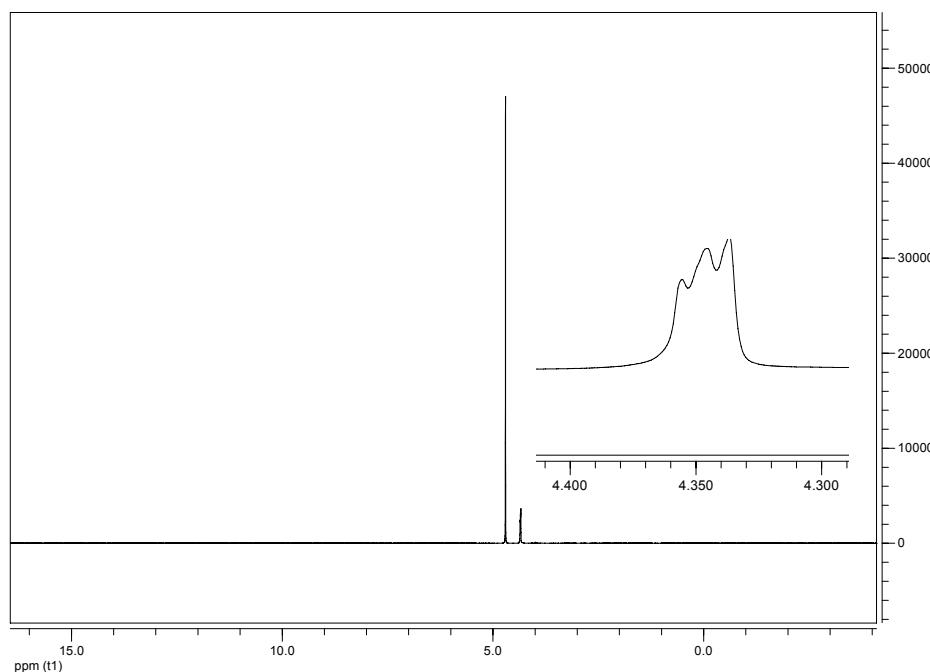


Fig. S1 ^1H NMR of spectrum of ppzdtc ligand in D_2O .

TEM image

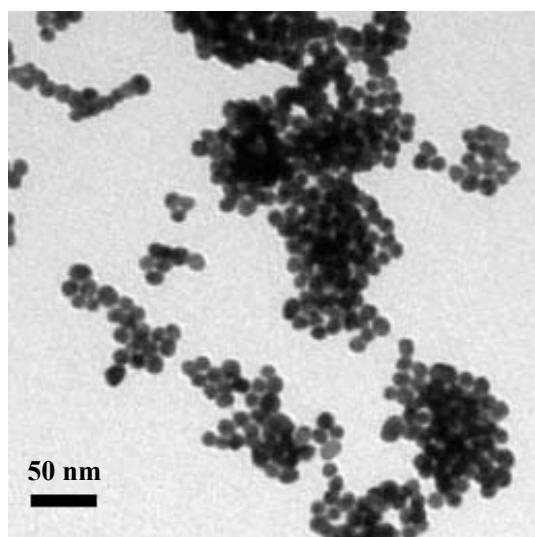


Fig. S2 The TEM images of the aggregated AuNPs in solution with the presence of 1.5 μM ppzdtc and 0.25 μM Cys.

pH effect on the determination of GSH

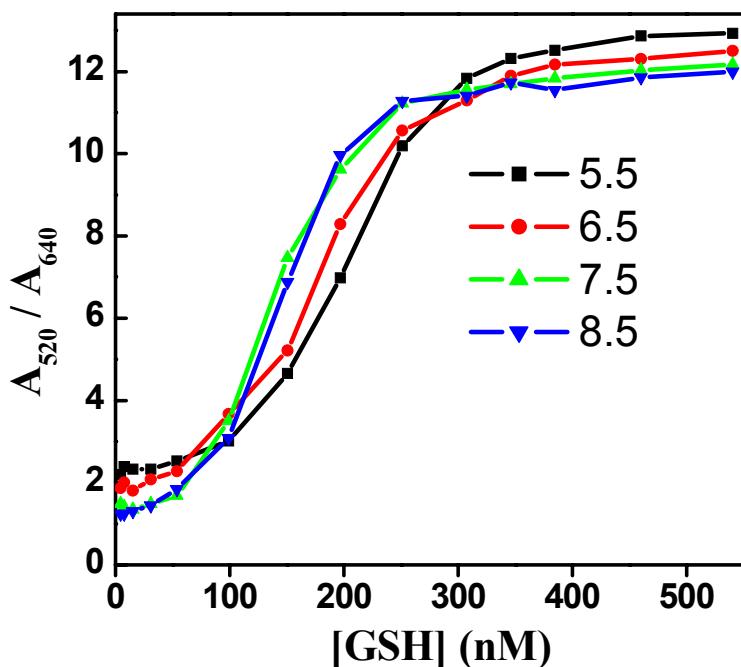


Fig. S3 Calibration curves of A_{520}/A_{640} vs. GSH concentration in the AuNPs suspension under different pH values.

Dynamic range dependent on the concentration of aggregation reagent ppzdtc

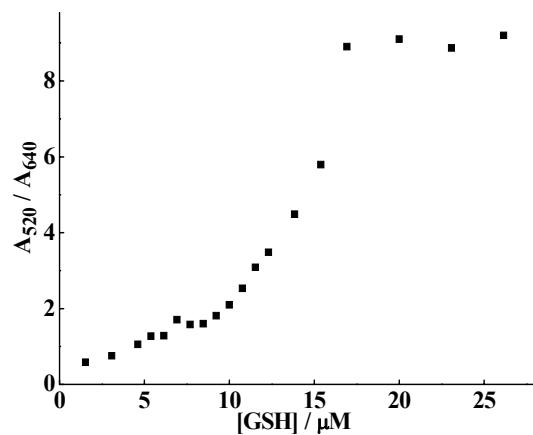


Fig. S4 Calibration curve of A_{520}/A_{640} vs. GSH concentration under the concentration of aggregation reagent ppzdtc of 5.4 μM .