

NaBH₄-Mediated Co-Reduction Synthesis of Glutathione Stabilized Gold/Silver Nanoclusters for Detection of Magnesium Ions

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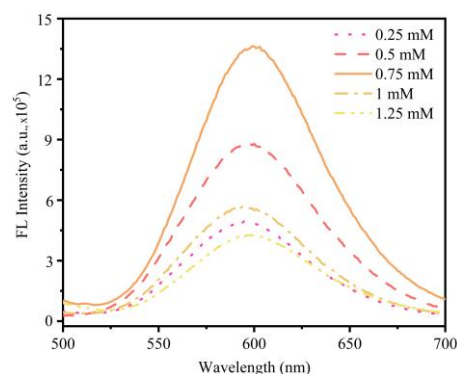


Figure S1: Optimization of NaBH₄ concentration for GSH@AuAg NCs preparation at 0.5 mM Au and Ag precursors, and 1.0 mM GSH.

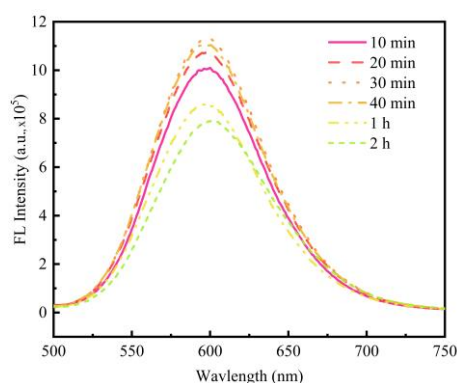


Figure S2: Fluorescent spectra of GSH@AuAg NCs obtained after mixing 0.5 mM Au and Ag precursors, 1.0 mM GSH and 0.75 mM NaBH₄ for different times.

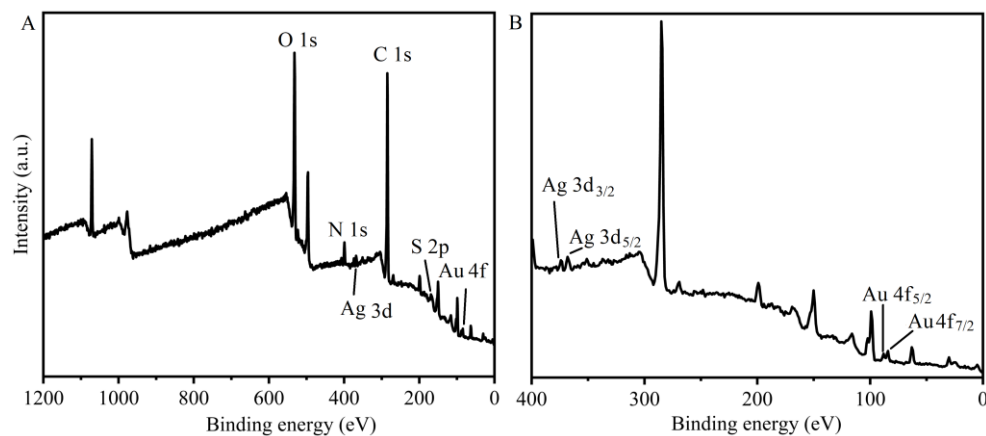


Figure S3: XPS spectra of AuAg NCs (A) Survey;(B) The particle dates of Au 4f and Ag 3d in survey spectrum.

Table S1. Detection of Mg^{2+} in purified drinking water samples ($n=3$). The recovery measurements were done on samples spiked with different concentrations of Mg^{2+} to test the feasibility of the proposed method.

Samples	Original (nM)	Added (nM)	Detected (nM)	Recovery (%)	RSD (%)
1	0	300.0	292.3	97.4	3.1
2	0	600.0	577.5	96.2	5.1
3	0	900.0	852.3	97.4	6.1