

A colorimetric/SERS dual-mode sensing for detection of mercury (II) based on rhodanine stabilized gold nanobipyramids

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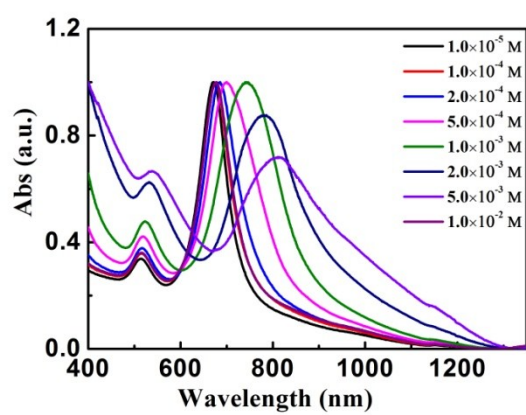


Figure S1. The effect of the concentration of rhodanine on the normalized absorption spectra of rhodanine stabilized Au NBs after addition of Hg^{2+} . pH=7.0; $C_{\text{Hg}^{2+}}$, 5.0×10^{-5} M.

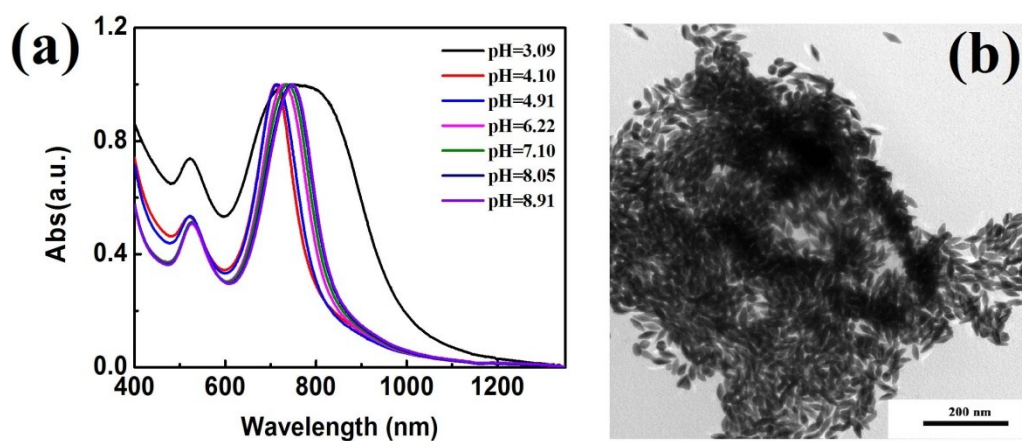


Figure S2. (a) The effect of the pH on the normalized absorption spectra of rhodamine stabilized Au NBs after addition of Hg^{2+} ; (b) TEM images of the rhodamine-stabilized Au NBs under the high acidic condition (pH=3.09). $C_{\text{rhodanine}}, 2.0 \times 10^{-3} \text{ M}$; $C_{\text{Hg}^{2+}}, 5.0 \times 10^{-5} \text{ M}$.

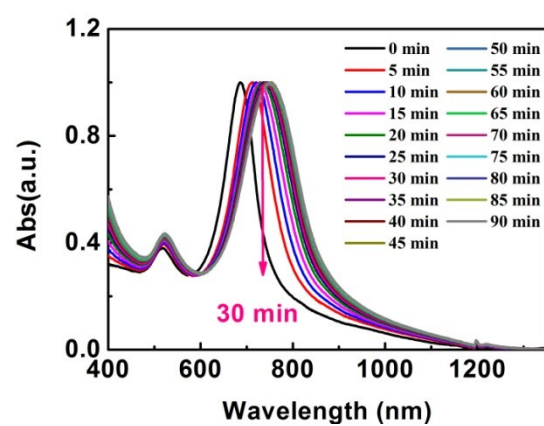


Figure S3. The effect of the reaction time on the normalized absorption spectra of rhodanine stabilized Au NBs after addition of Hg^{2+} . $\text{pH}=7.0$; $C_{\text{rhodanine}}, 2.0 \times 10^{-3} \text{ M}$; $C_{\text{Hg}^{2+}}, 5.0 \times 10^{-5} \text{ M}$.