

Supporting Information:

Probing the Structure and Charge State of Glutathione-Capped $\text{Au}_{25}(\text{SG})_{18}$ Clusters by NMR and Mass Spectrometry

Zhikun Wu, Chakicherla Gayathri, Roberto R. Gil, and Rongchao Jin*

Department of Chemistry, Carnegie Mellon University, Pittsburgh, Pennsylvania 15213.

1. Supporting Figure S1–S3

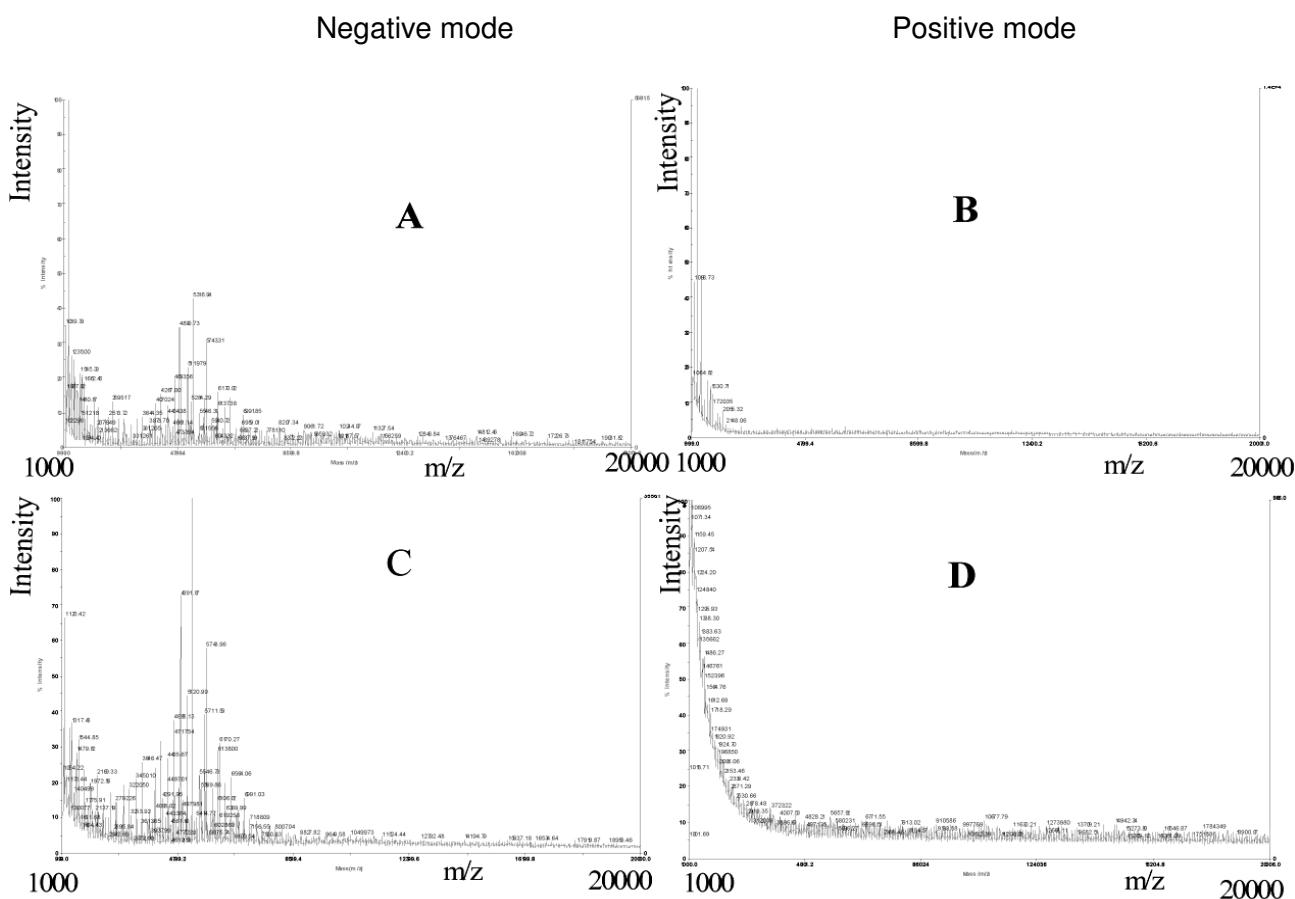


Figure S1. Laser desorption ionization (LDI) MS spectra of phenylethylthiolate and glutathione capped Au_{25} clusters. $\text{Au}_{25}(\text{SCH}_2\text{CH}_2\text{Ph})_{18}$ in the negative ion mode (A) and positive ion mode (B); $\text{Au}_{25}(\text{SG})_{18}$ in the negative ion mode (C) and positive ion mode (D).

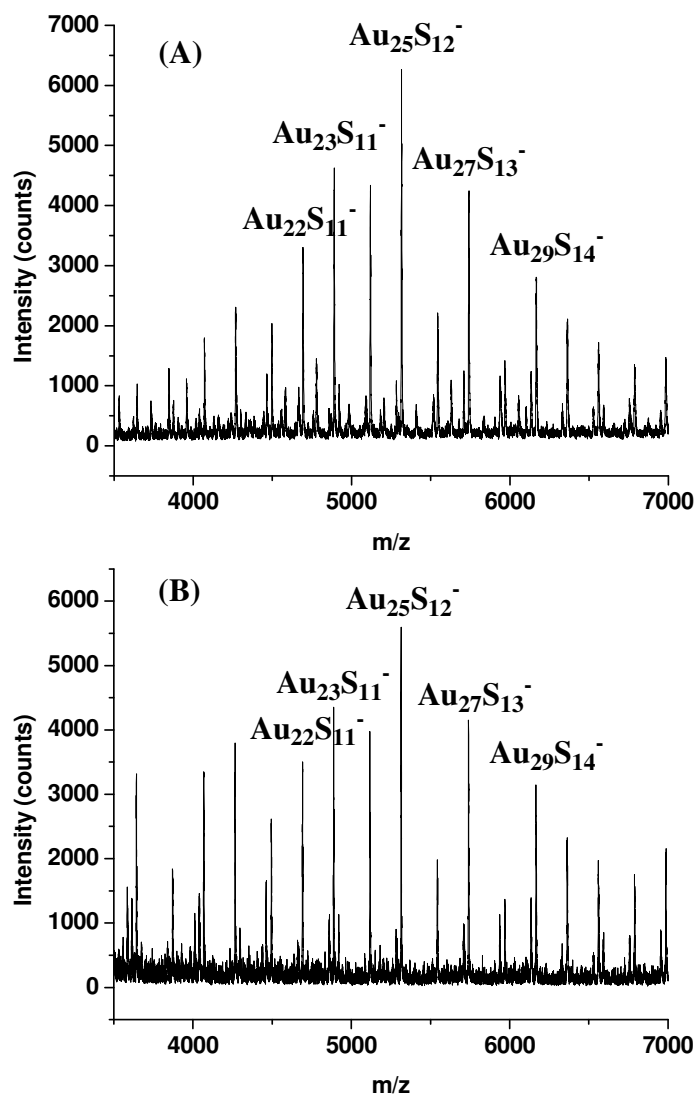


Figure S2. Laser desorption ionization (LDI) MS spectra of $\text{Au}_{25}(\text{SC}_6\text{H}_{13})_{18}$ (A) and $\text{Au}_{25}(\text{SC}_{12}\text{H}_{25})_{18}$ (B). Both spectra were collected in the negative mode.

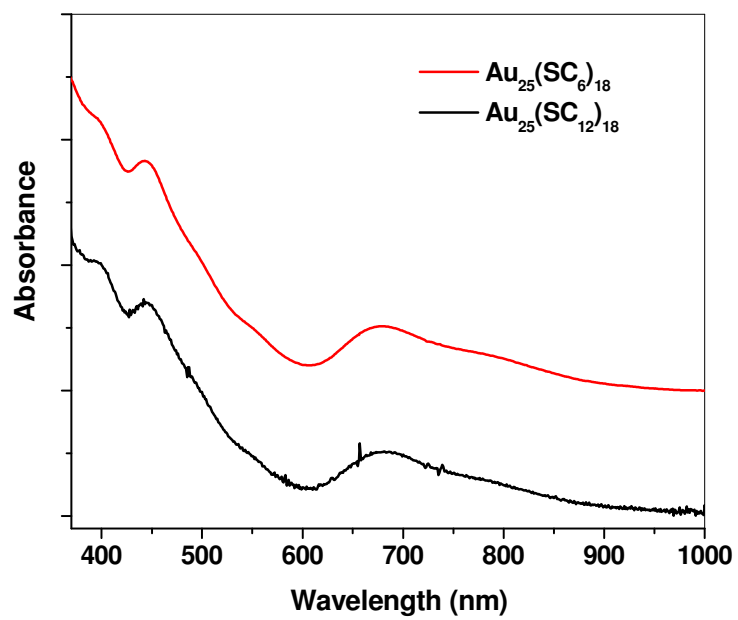


Figure S3. The UV-vis absorption spectra of $\text{Au}_{25}(\text{SC}_6\text{H}_{13})_{18}$ (red profile) and $\text{Au}_{25}(\text{SC}_{12}\text{H}_{25})_{18}$ (black profile). The spectra are shifted for clarity.