

Supporting Information

**Importance of Double-Resonance Effects in Two-Photon
Absorption Properties of $\text{Au}_{25}(\text{SR})_{18}^-$**

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TPA cross sections on a per gold atom basis as a function of the cluster size

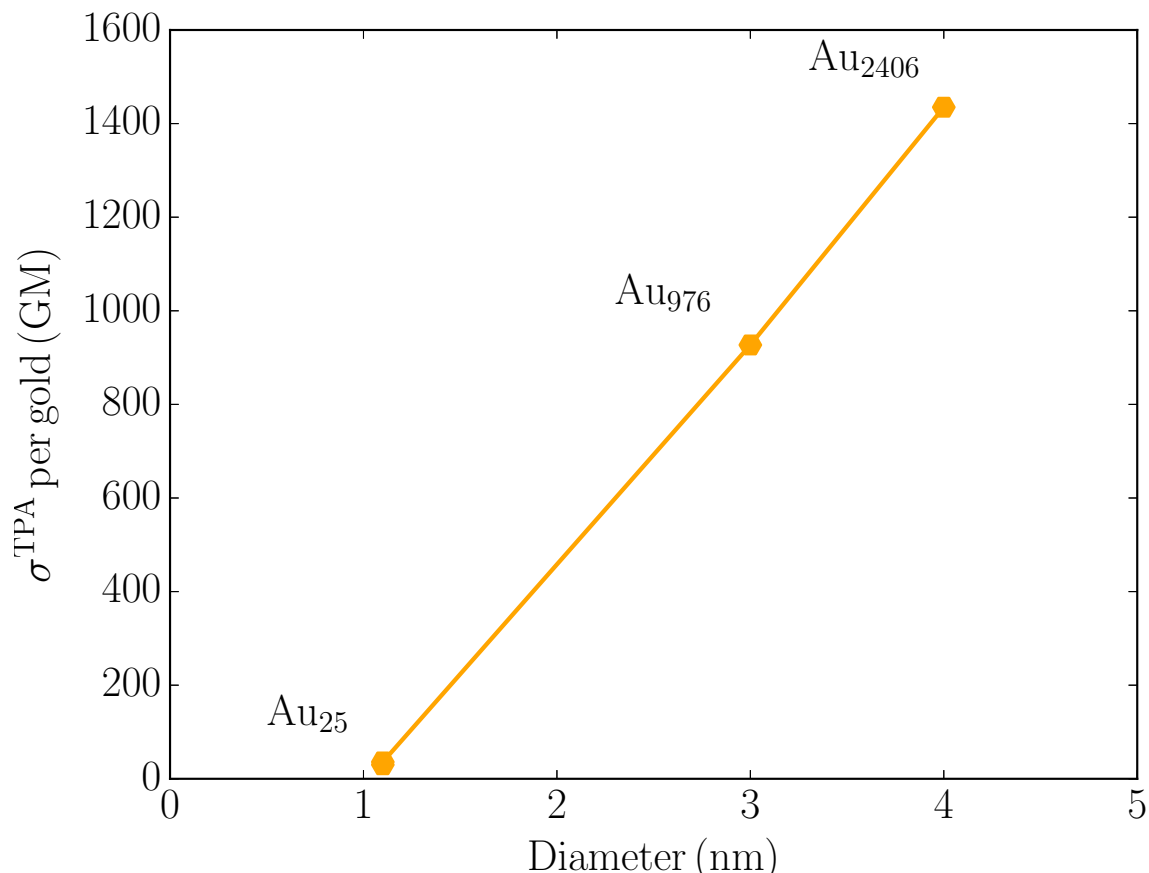


Figure 1: TPA cross section on a per atom basis for three different gold species. The values for the Au₂₅(SH)₁₈[−] cluster is based on simulations while those for the Au₉₇₆ and the Au₂₄₀₆ nanoparticles were obtained using the experimental data from Ref. 1.

References

- (1) Ramakrishna, G.; Varnavskit, O.; Kim, J.; Lee, D.; Goodson, T. Quantum-Sized Gold Clusters as Efficient Two-Photon Absorbers. *J. Am. Chem. Soc.* **2008**, *130*, 5032.