

Supporting Information

Utilizing an Improved EXAFS Structure Analysis Method to Reveal Site-Specific Bonding Properties of $\text{Ag}_{44}(\text{SR})_{30}$ Nanoclusters

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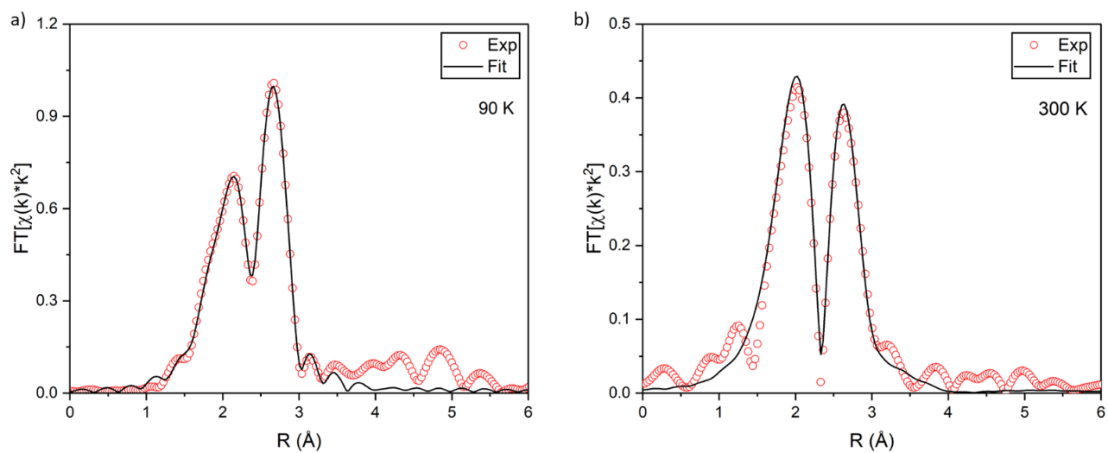


Figure S1. Ag K-edge FT-EXAFS spectrum of $\text{Ag}_{44}(\text{SR})_{30}$ with three-shell fitting at a) 90 K and b) 300K.

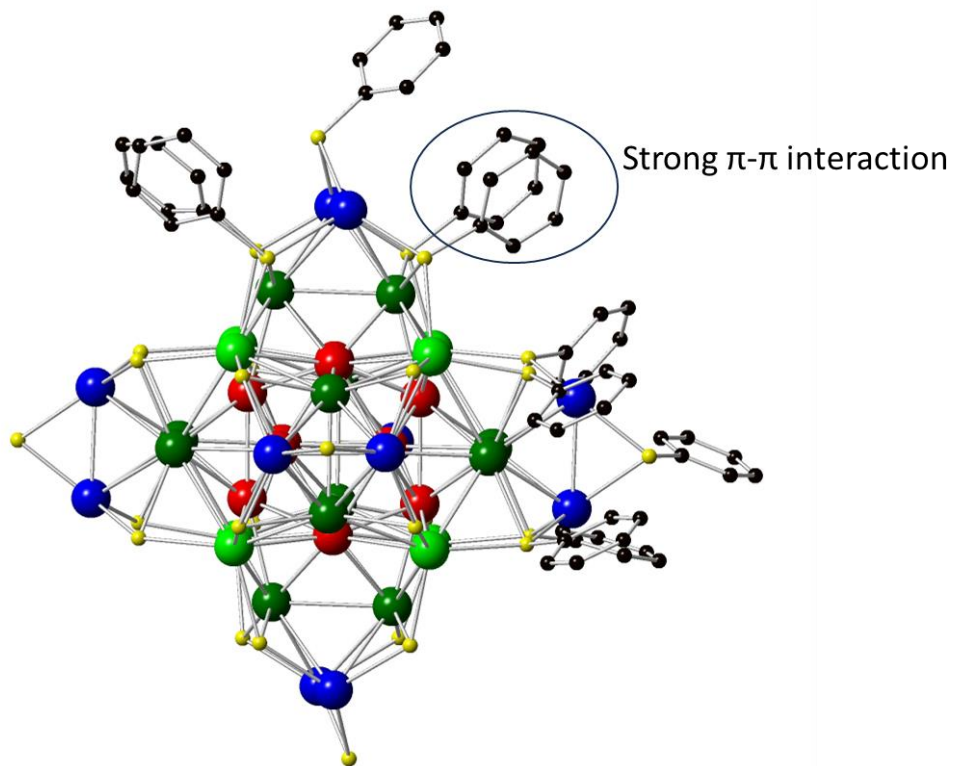


Figure S2. The structure of $\text{Ag}_{44}(\text{SR})_{30}$ with some ligands to show the strong π - π interaction between ligands within one motif

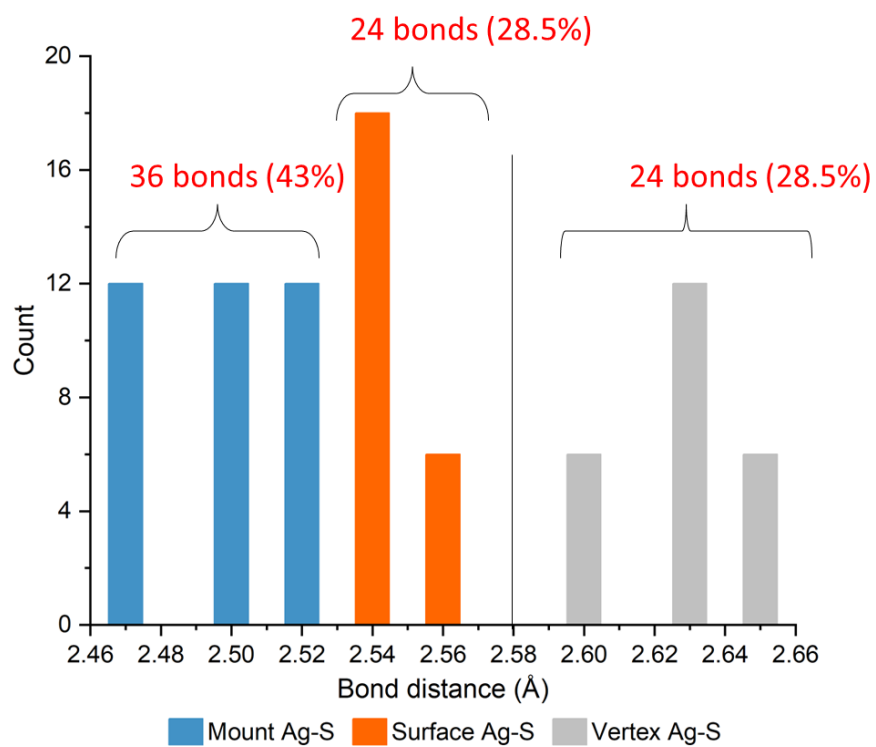


Figure S3. The bond length distribution of Ag-S bonds in $\text{Ag}_{44}(\text{SR})_{30}$ with the percentage of each type of bonds.