

Supporting Information

Ligand-Induced Disruption of Polyhedral $C_2@Ag_n$ Cage Assembly in Silver Acetylenediide Complexes

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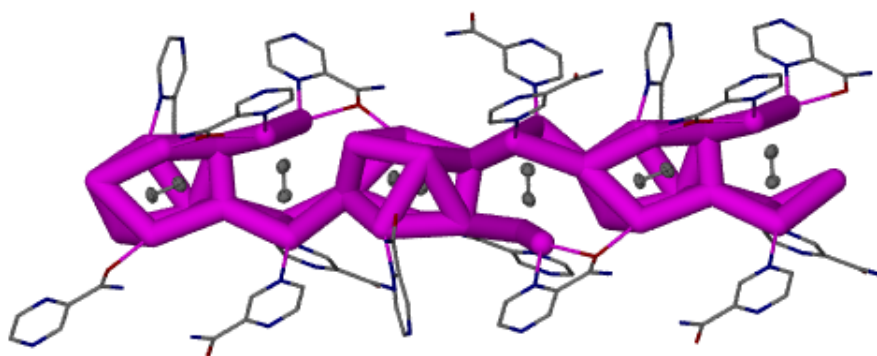


Figure 3. One-dimensional infinite column of **1** generated from fusion of $C_2@Ag_8$ and $Ag_6(\mu_6-C_2)$. trifluoroacetate ligands and hydrogen atoms have been omitted for clarity. Color code: carbon, gray; nitrogen, blue; silver, purple; oxygen, red.

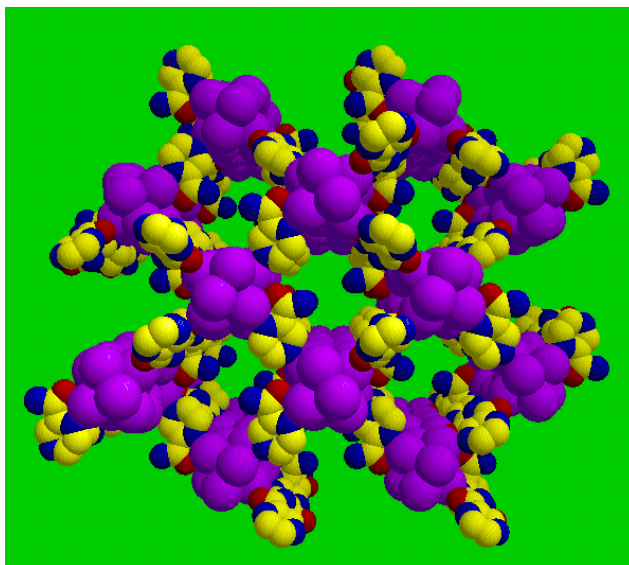


Figure 4. Space-filling drawing of the three-dimensional framework of **1**. Trifluoroacetate ligands have been omitted for clarity. Color code: carbon of pyz ring, yellow; nitrogen, blue; silver, purple; oxygen red.



Figure 5. A portion of the ABCABC... silver column of **2** generated from the fusion of cage **A**, **B** and **C**.

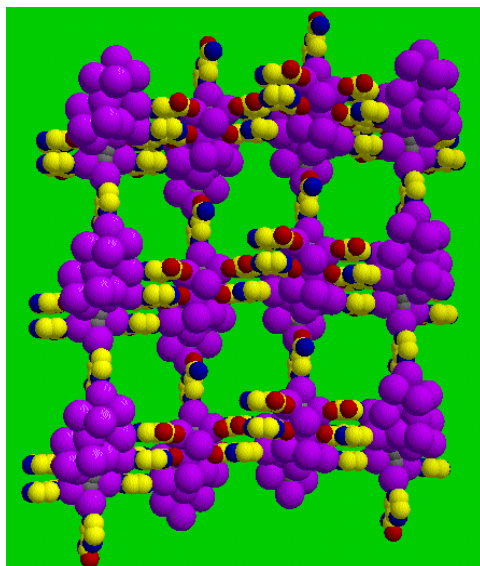


Figure 6. Space-filling drawing of the three-dimensional framework of **2**. Pentafluoropropionate ligands have been omitted for clarity. Color code: carbon of pyz ring, yellow; carbon of C_2^{2-} , gray; nitrogen, blue; silver, purple, oxygen red.