

Theoretical study of the closed-shell d¹⁰-d¹⁰ Au(I)-Cu(I) attraction in complexes in extended unsupported chains

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Model compounds are used to study the metallophilic attraction between gold and copper atoms. Ab initio calculations on dimers and tetramers in different distributions of the simplified units are analyzed. An attraction is found for all models and there is a reasonable agreement between the experimental and theoretical geometries. © 2011 Elsevier B.V.