

Supplementary Information  
Self-assembly of silver nano-wires along the step-edge of  
graphite

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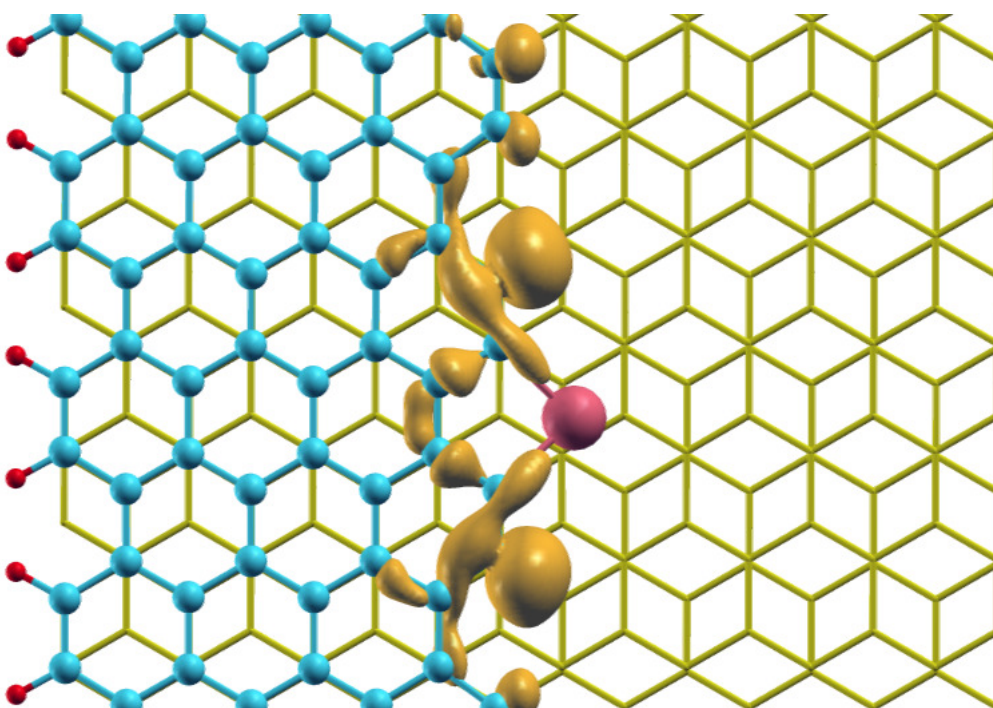


Figure S1: Partial (band decomposed) charge density isosurface plot for a silver adatom bonded at an 'active site' of an armchair step edge on HOPG. Top (half) layer C atoms are marked in blue.

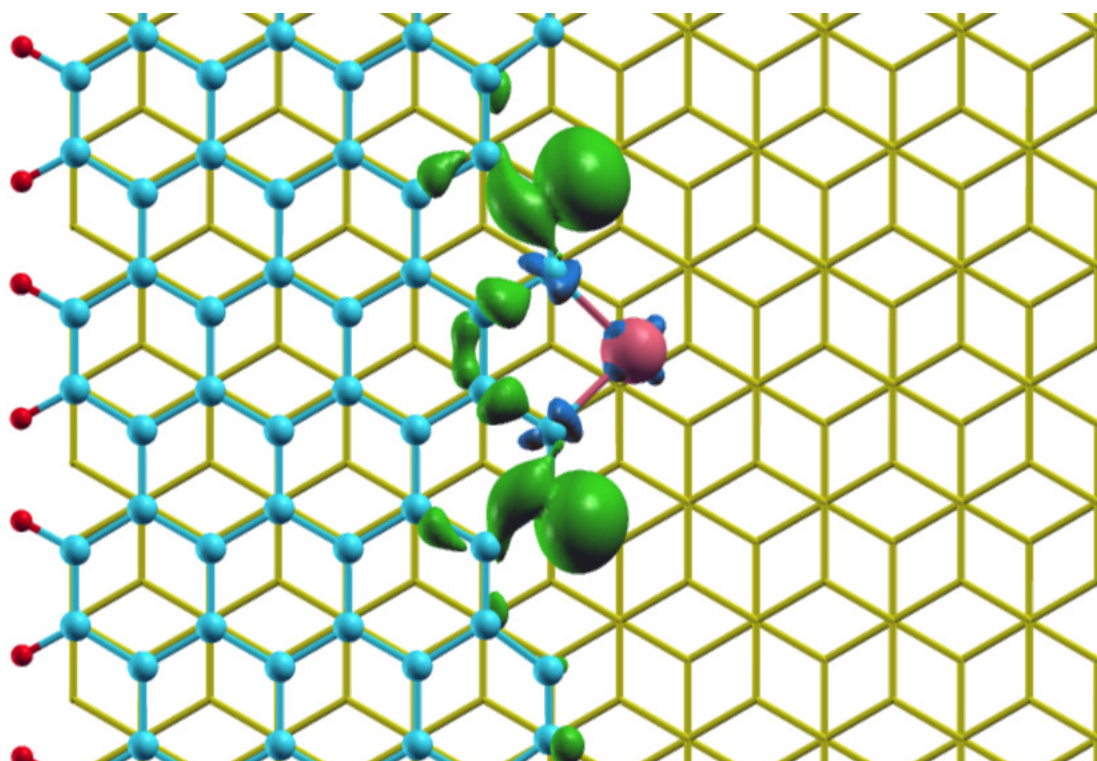


Figure S2: Spin density isosurface plot for a silver adatom bonded at an ‘active site’ of an armchair step edge on HOPG.

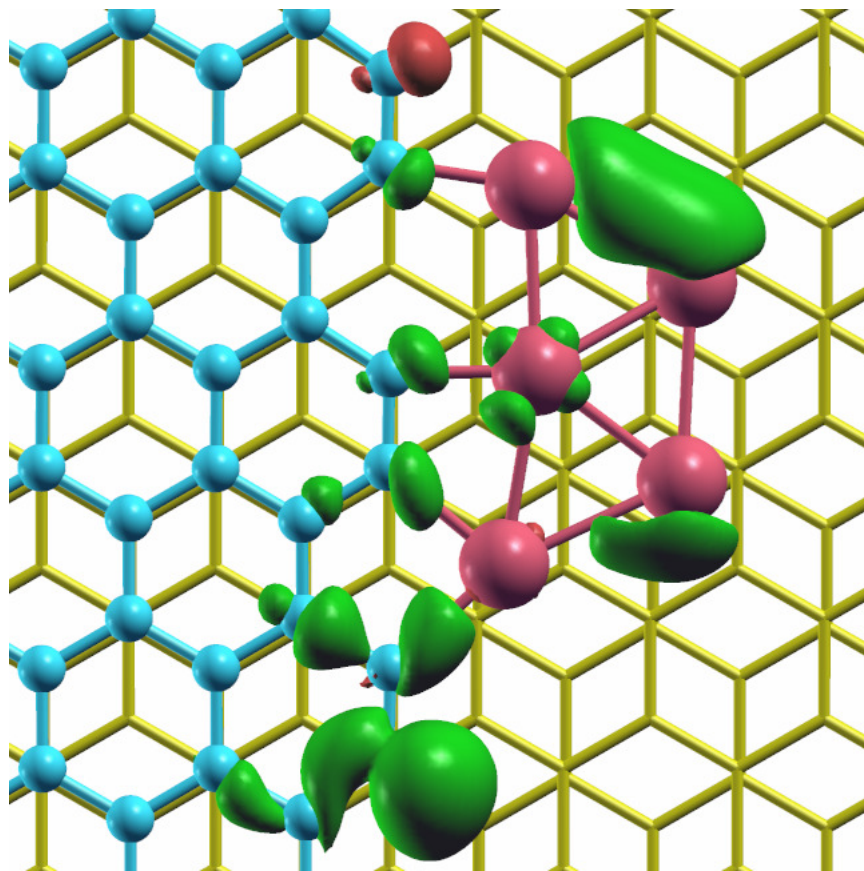


Figure S3: Spin density isosurface plot for the  $\text{Ag}_5$  cluster bonded at the armchair step edge on HOPG.