Evolution of Structure and Energy Stability of Ag Nanoparticles

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In this work we present the structural evolution and energy stability results for silver nanoparticles from the small (1-2 nm) to the big (50 nm) size ranges. We have found that the appearances of structural lattice defects are important factors that influence the growth process. A simple assembly model for a path transformation for silver nanoparticles is presented and compared with experimental evidence.

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