

Abstract Submitted  
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**Gold coated nanoparticles on silicon substrate** SIRAK MELAKU, None — The study of Gold nanoparticles is very captivating because of their significance and applications as catalysts in restructuring technologies that are used for manufacturing medicine, energy production, transportation, computation, communication, and environmental changes. In this experiment, I have analyzed the morphology of gold nanoparticles using different techniques. A sputter coating technique was used to deposit gold on silicon substrate. During the process, depositions were performed using varying plasma coating times and voltages. The Gold nanoparticles were then analyzed using the Atomic Force Microscopy (AFM) and Scanning Electron Microscopy (SEM). The AFM and SEM data revealed that the coating surface morphology was dependent upon deposition conditions.

Sirak Mekonen  
None

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