

[SP-01]

Phases of Ag-adsorbed on Si(110)2×16 studied by LEED and AES

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We investigated Ag-adsorbed Si(110)2×16 surface using low energy electron diffraction (LEED) and Auger electron spectroscopy (AES). Depending on annealing temperature and Ag coverage, diffuse 1×1, 2×1+streak, 2×1, and (-1,6)×(-7,0) structure were observed by LEED, while any other structures were not observed. The relative Ag coverages of the reconstructed structures were measured from Ag(MNN)/Si(LVV) AES intensity ratios.

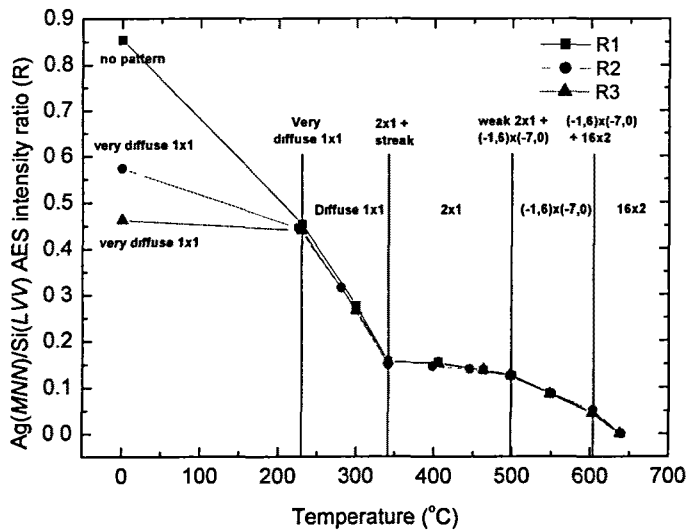


Figure 1. Ag(MNN)/Si(LVV) AES intensity ratio as a function of annealing temperature for various Ag-deposited surface at RT with observed LEED patterns.