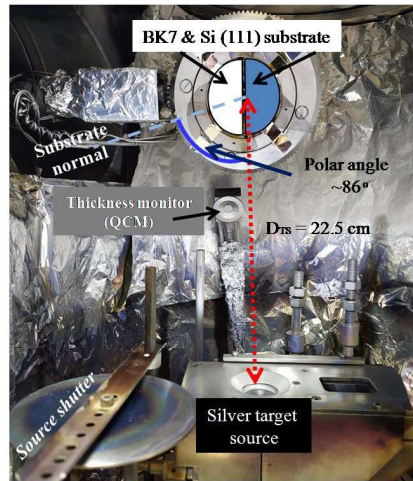
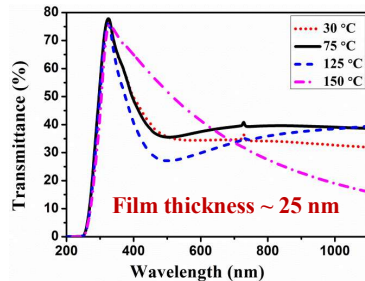


# Temperature Threshold for Localized Surface Plasmon Resonance in GLAD Ultra-thin Silver Films

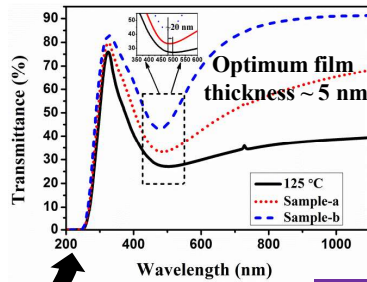


Photograph of the glancing angle deposition (GLAD) arrangement

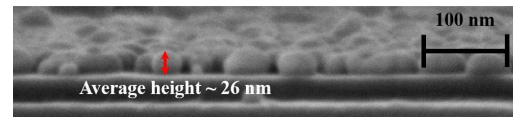
Plasmonic absorption of the Threshold temperature deposited GLAD-Ag coatings prepared with varying Film thicknesses



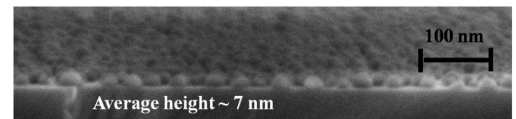
Plasmonic absorption of the GLAD-Ag coatings prepared with varying deposition temperatures



Threshold temperature of deposition of GLAD-Ag coatings ~ 125 °C



Cross-sectional view of the ~125 °C deposited sample (~26 nm thick) (by FE-SEM)



Cross-sectional view of the ~125 °C deposited sample (~5 nm thick) (by FE-SEM)

Ultra-thin (~ 5 nm) specimen prepared with substrate heating temperature of 125 °C found to be the optimum condition for fabricating plasmonic GLAD-Ag films