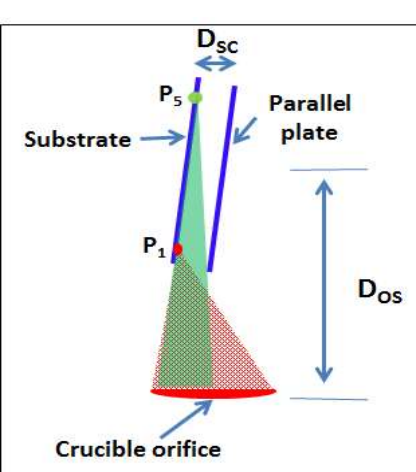


Tunable Ag morphology from nanocolumns to discrete nanoislands in GLAD Silver films

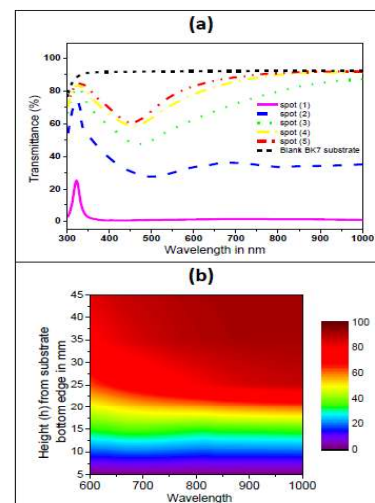


Glancing Angle Deposition (GLAD) of Silver films with angle constraint using a parallel plate (Top)

Single step deposition process yields varying Silver morphology across the sample (middle)

Spot-1	 Thickness: ~250 nm
Spot-2	 Thickness: 42 nm
Spot-3	 Thickness: 26.3 nm
Spot-4	 Thickness: 18.4 nm
Spot-5	 Thickness: 16.7 nm

The length scale for all images is $\mu\text{m} \rightarrow 100 \text{ nm}$



Dispersion characteristics reveal the *transparency* of metallic silver due to *plasmonic effect*.

The average transmittance in the wavelength range of 600 to 1000 nm varies from 1.1% to 91% across the sample surface from bottom to top edge- demonstrates its potential as Variable Transmittance Attenuator.