Synthesis of Ag nanotriangles

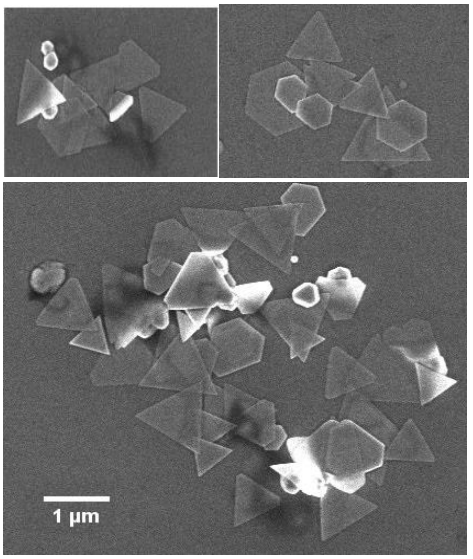

Fig 2: Ag nano particle solution.

Fig 1: SEM image of Ag nanoparticles deposited on a waveguide sample of ITO over glass through dip coating.

PEEM Image of Ag nanotriangles

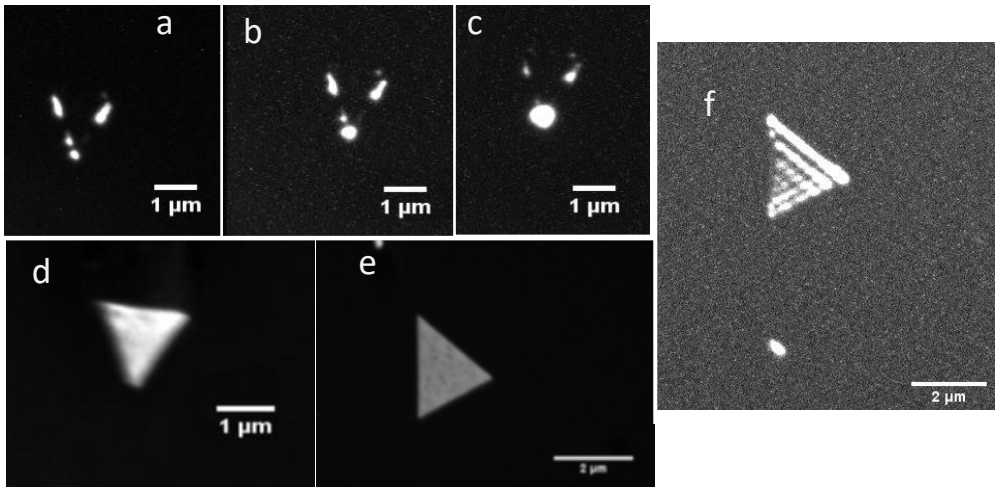

Fig3: Field enhancement at the rear tip for (a) 800nm, (b) 810 nm and (c) 830 nm wavelength of excitation beam with incident angle 60°. (d), (e). Ag nanotriangles at 244 nm incident laser beam (f) Interference between SPP and 800 nm TM polarized beam.

Optimization of rear tip field enhancement.

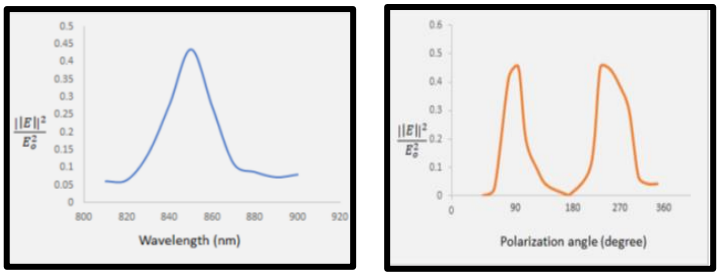

Fig 4: (a) Rear tip field enhancement Vs excitation wavelength at 60° angle of incidence. (b) Rear tip field enhancement Vs polarization angle for 845nm excitation wavelength.