

Supporting Documents

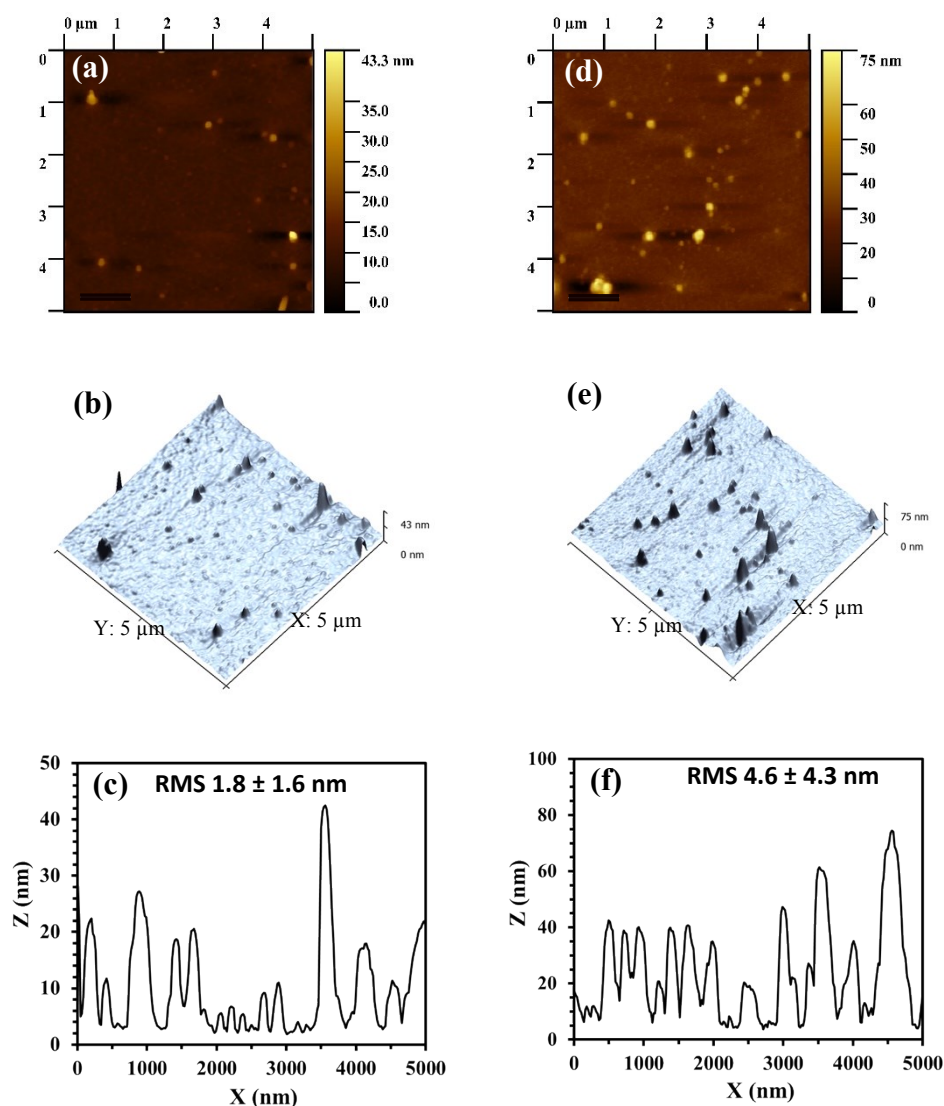


Figure S1: The AFM morphology images ($5\mu\text{m} \times 5\mu\text{m}$) of ZnO films with (a) 3.5 mg/ml and (d) 4.5 mg/ml weight concentrations of plasmonic Na_xWO_3 nanoparticles. The 3D images of (b) 3.5 mg/ml and (e) 4.5 mg/ml weight concentrations of Na_xWO_3 nanoparticles embedded ZnO films showing the surface morphology as well as height of each plasmonic nanoparticle. The calculated height of each plasmonic nanoparticle along with X-axis are presented for (c) 3.5 mg/ml and (d) 4.5 mg/ml weight concentrations of plasmonic Na_xWO_3 nanoparticles based ZnO films where the average height of all nanoparticles for corresponding films are 10 ± 8.5 nm and 24 ± 17 nm.