Supporting Information

The role of localized plasmons on the optical properties of Au/ZnO nanostructures


Figure SI1. AFM of Au layers with different thickness: a) 2.5 nm, b) 5 nm, c) 10 nm, d) 15 nm and e) 30 nm
Figure S12 AFM of Au-ZnO nanocomposites with different Au thickness: a) 2.5-50 nm, b) 5-50 nm, c) 10-50 nm, d) 15-50 nm and e) 30-50 nm; f) Roughness dependence as a function of the Au film thickness.
Figure S13. UV-VIS reflection spectra of Au-ZnO nanostructures with different Au thicknesses. Dashed and dotted curves present, for a comparison absorption spectra of bulk ZnO and Au (~50 nm).