Supplementary Materials: Chemosensing on Miniaturized Plasmonic Substrates

Pengcheng Wang and Rodica Elena Ionescu



Figure S1. SEM images of one step (**A**) and two steps (**B**) annealing of round-shaped glass coverslips coated with (**A–D**) ITO-10nm/Au NPs (2–8 nm), (**E–H**) ITO-20nm/Au NPs (2–8 nm), (**I–L**) ITO-30nm/Au NPs (2–8 nm) and (**M–P**) ITO-40nm/Au NPs (2–8 nm). Green square and red square show-he morphology of optimized surface (**H**) for sensing.



Two steps annealing (B)

Figure S2. SEM images of two steps annealing of coverslips coated with (**A–D**) ITO-10nm/Au NPs (2–8 nm), (**E–H**) ITO-20nm/Au NPs (2–8 nm), (**I–L**) ITO-30nm/Au NPs (2–8 nm) and (M–P) ITO-40nm/Au NPs (2–8 nm). Red square -the morphology of optimized surface ITO 20nm/Au 8 nm (**H**) for sensing.





Figure S3. Energy-dispersive X-ray spectrum and SEM image of the one-step annealed ITO-20nm/Au-8nm NPs (**A**) and two-step annealed ITO-20nm/Au-8nm NPs (**B**). (Inset: EDS 2D mapping of different elements in the ITO/Au NPs.)



Figure S4. Energy-dispersive X-ray spectrum and SEM image of coverslips coated with ITO-10 nm before (**A**) and after annealing (**B**) and of coverslips coated with ITO-40 nm before (**C**) and after annealing at 550 $^{\circ}$ C (**D**).