



FIG. S1 Refractive index (n) and extinction coefficient (k) of PMMA film as a function of wavelength (nm). The film was prepared by spin-coating with 5000 rpm a dispersion of PMMA of 30 g/l (the same concentration used for the PMMA/gold precursor mixtures) on a silicon wafer. One can see that PMMA don't present any optical response on the whole spectral range of measurements.