# In-situ generation of Au nanoparticles in UV-curable refractive index controlled $SiO_2$-$TiO_2$–PEO hybrid films

**Sucheta De, and Goutam De***

## Supporting Information for Publication

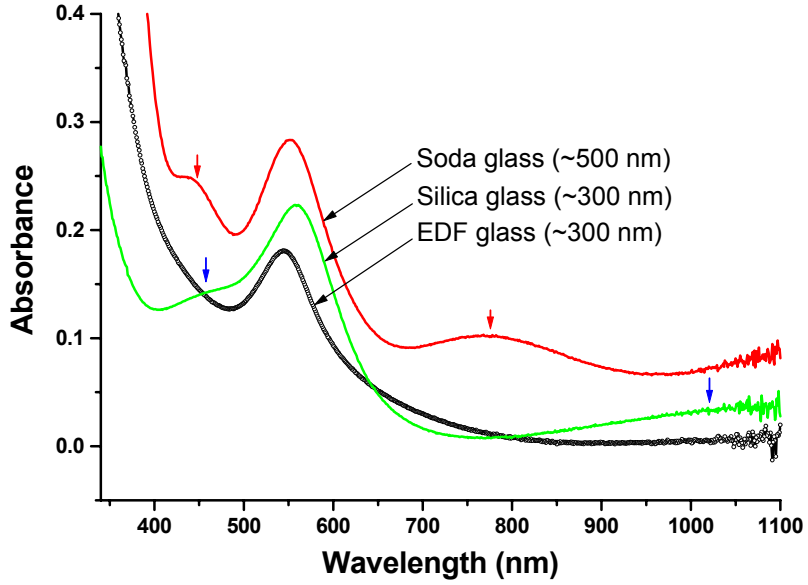


**Figure S1**

A comparative optical absorption spectra of in-situ generated Au nanoparticle embedded $SiO_2$-$TiO_2$–PEO hybrid film deposited on three different glass substrates. The films were dried at 90 °C and followed by UV-treated with energy=5.3 J/cm$^2$. Film thickness (t) values are given in the body of the figure. The refractive index of the film is ~1.68. The peaks shown by arrows are due to optical interference reasons.

[Refractive index of EDF glass = 1.69; Soda-lime-silica glass = 1.51; Silica glass =1.46]