Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.

Supporting information:

Surface Curvature Dependent Adsorption and Aggregation of Fluorescein Isothiocyanate on Gold Nanoparticles

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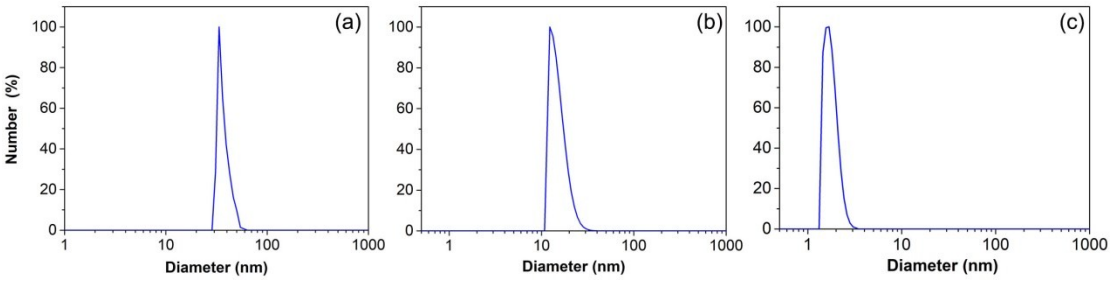

Figure S1. The number-size distributions of the as-synthesized AuNPs' obtained by DLS. The number mean of diameters measured before centrifugation are 37.8 (a), 15.5 (b) and 1.7 (c) nm, respectively.

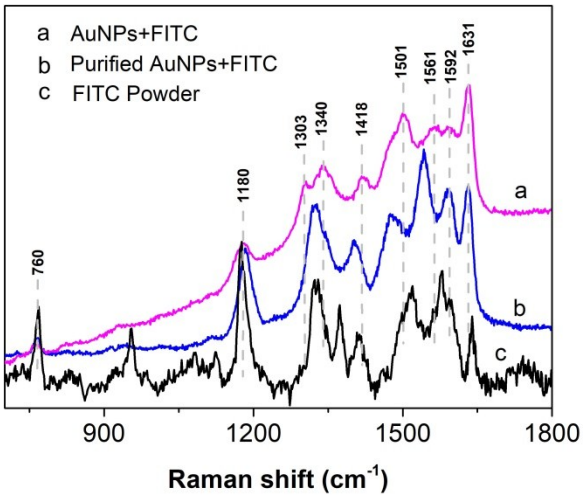

Figure S2. Raman spectrum of the FITC covered 37 nm AuNPs (a), FITC covered AuNPs washed by deionized water for three times (b), and FITC powder (c).

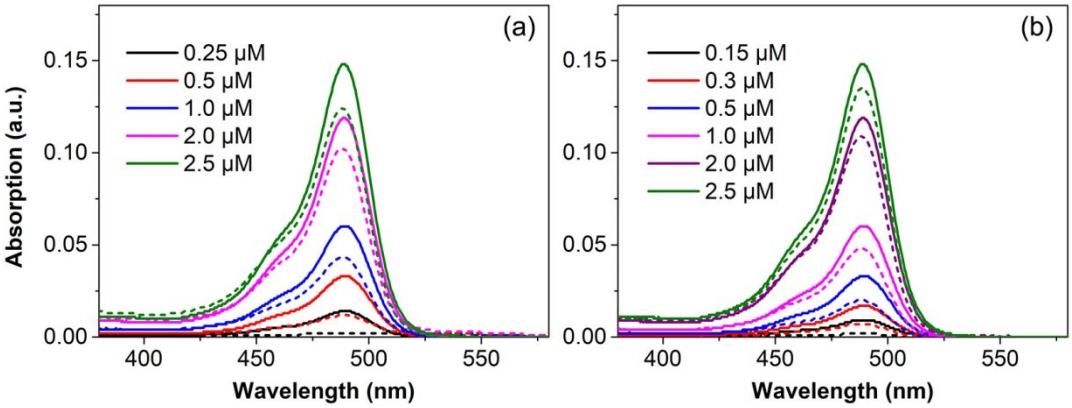

Figure S3. The absorption spectra of various FITC concentrations before and after adsorption by 15 (a) and 37 nm (b) AuNPs. The solid lines are the FITC solutions before mixing with AuNPs, the dash lines are the absorption of the centrifuged supernatant after mixing with AuNPs.

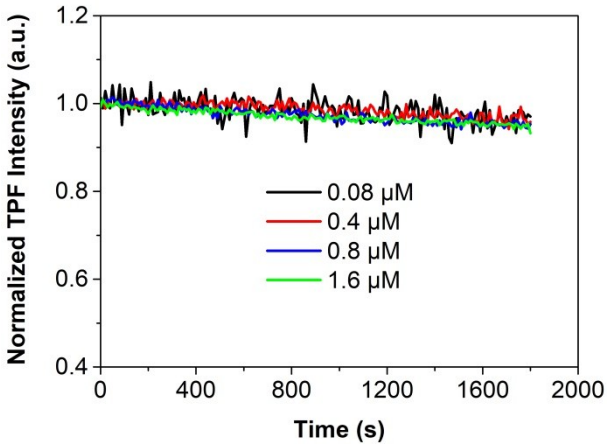

Figure S4. The TPF intensity of FITC solutions of different concentrations versus time, the excitation wavelength was 810 nm, and the power was 300 mW.

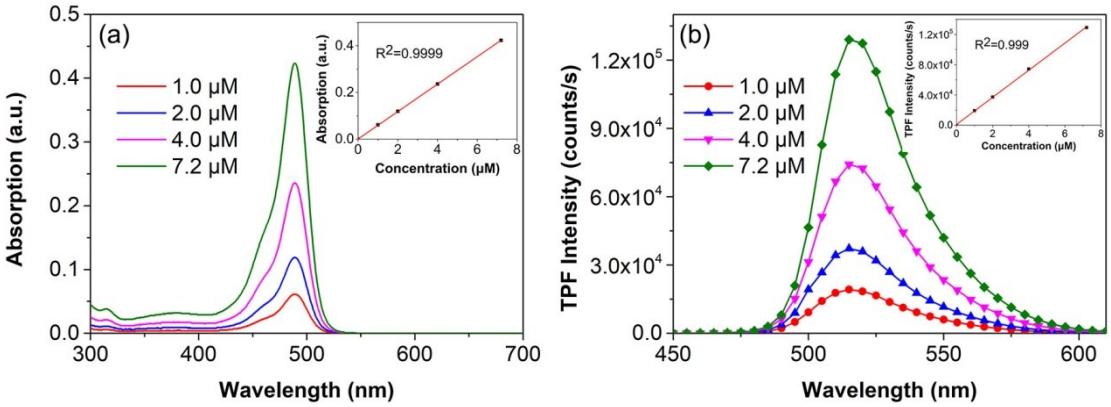

Figure S5. The UV-vis absorption (a) and two-photon fluorescence emission (b) spectrums of different FITC concentrations. The insets are linear plot of absorption or emission intensity versus concentration.