Electronic Supplementary Information

Enhancement of PbS Quantum Dot-Sensitized Photocurrents by Plasmonic Gold Nanoparticles

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As the TiO_2 thickness increases, extinction peaks due to interference of the ITO/TiO_2 film on a glass substrate redshifts (Fig. S1). We measured the TiO_2 thickness by scanning electron microscopy (SEM) and plotted the peak at 500-700 nm against the thickness (Fig. S2). On the basis of the calibration curve thus obtained, we evaluated the TiO_2 thickness of the samples used in the present work.

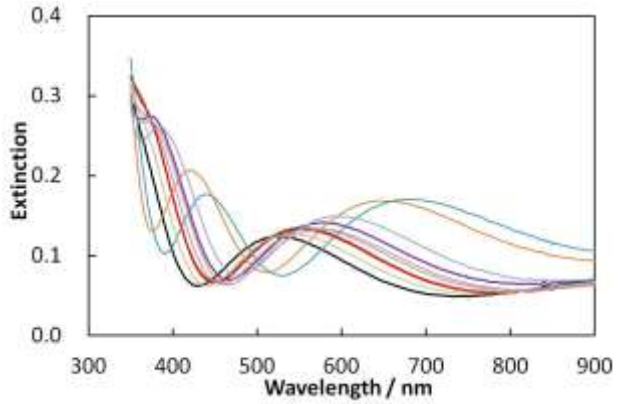

Fig. S1 Extinction spectra of the ITO/TiO_2 films on a glass substrate.

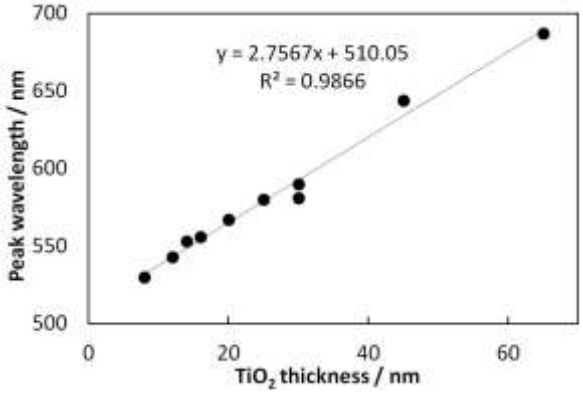

Fig. S2 Peak wavelength in Figure S1 plotted as a function of the TiO_2 thickness measured by SEM.