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.

![Extinction spectra of the ITO/TiO$_2$ films on a glass substrate.](image)

**Fig. S1** Extinction spectra of the ITO/TiO$_2$ films on a glass substrate.

![Peak wavelength in Figure S1 plotted as a function of the TiO$_2$ thickness measured by SEM.](image)

**Fig. S2** Peak wavelength in Figure S1 plotted as a function of the TiO$_2$ thickness measured by SEM.