Supporting Information for:

TiO₂ Nanoparticle Photocatalysts Modified with Monolayer-Protected Gold Clusters

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Figure S1. Transmission electron microscopy (TEM) image and corresponding histogram of the core diameter of glutathione-coated Au MPCs. Scale bar = 10 nm.
Figure S2. TEM images of TiO$_2$ and glutathione-coated MPC mixtures sampled at 20 min (a) and 3 h (b). Scale bar = 50 nm.

Figure S3. Thermogravimetric analysis of glutathione-coated MPC.
**Figure S4.** TEM images of 4 wt % MPC-TiO$_2$ composites calcined at 250 °C (a) before and (b) after repeated photoexcitation.

**Figure S5.** TEM images of 4 wt % MPC-TiO$_2$ composites (a) before and (b) after calcination at 400 °C. The average core diameter increased from 2.1 to 3.3 nm after calcination.