

Electronic Supplementary Information for
Gold Nanoparticles as an Ultrathin Scattering Layer For Efficient
Dye-Sensitized Solar Cells

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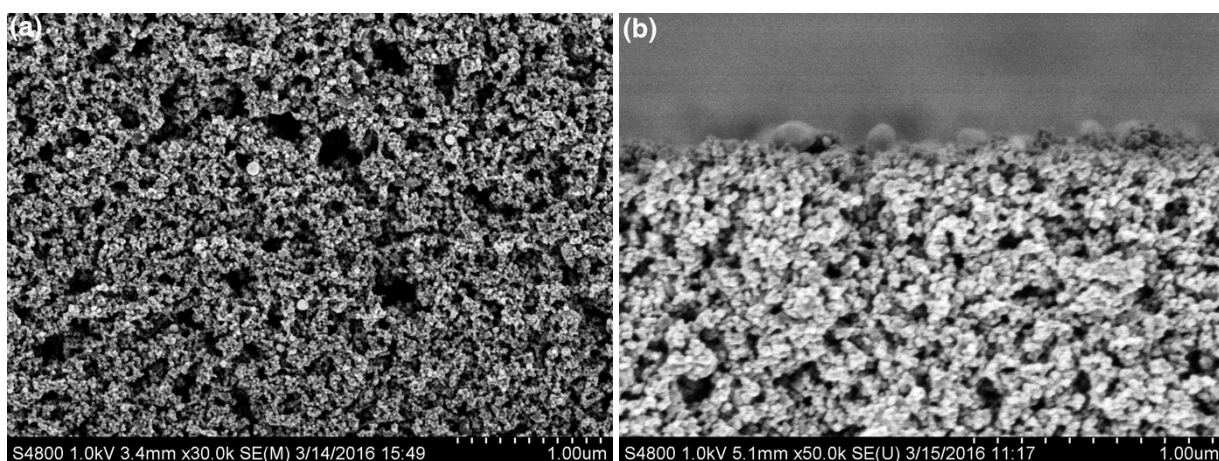


Figure S1. The top (a) and cross-sectional (b) view SEM images for the photoanode with Au layer of 48 nm nanoparticles

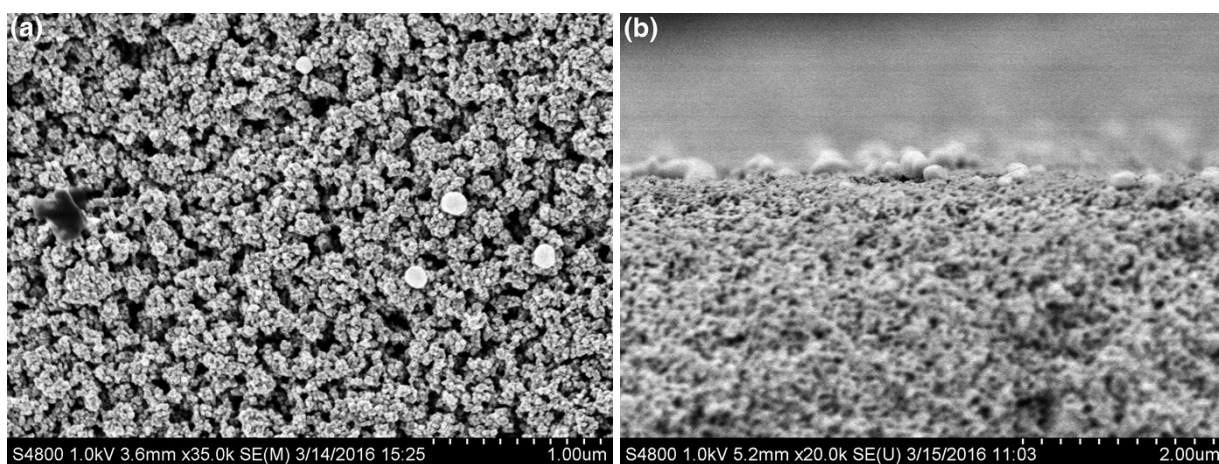


Figure S2. The top (a) and cross-sectional (b) view SEM images for the photoanode with Au layer of 94 nm nanoparticles

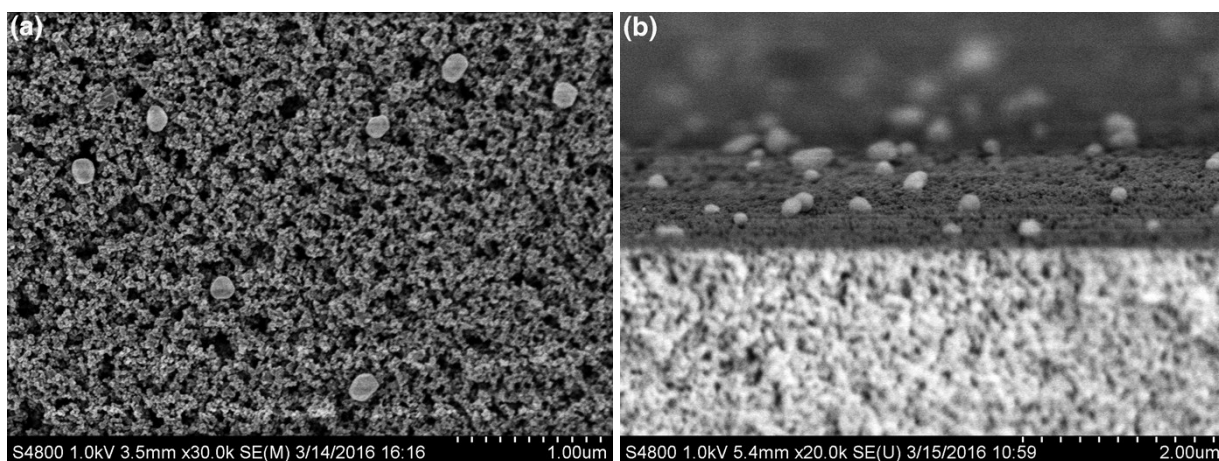


Figure S3. The top (a) and cross-sectional (b) view SEM images for the photoanode with Au layer of 125 nm nanoparticles

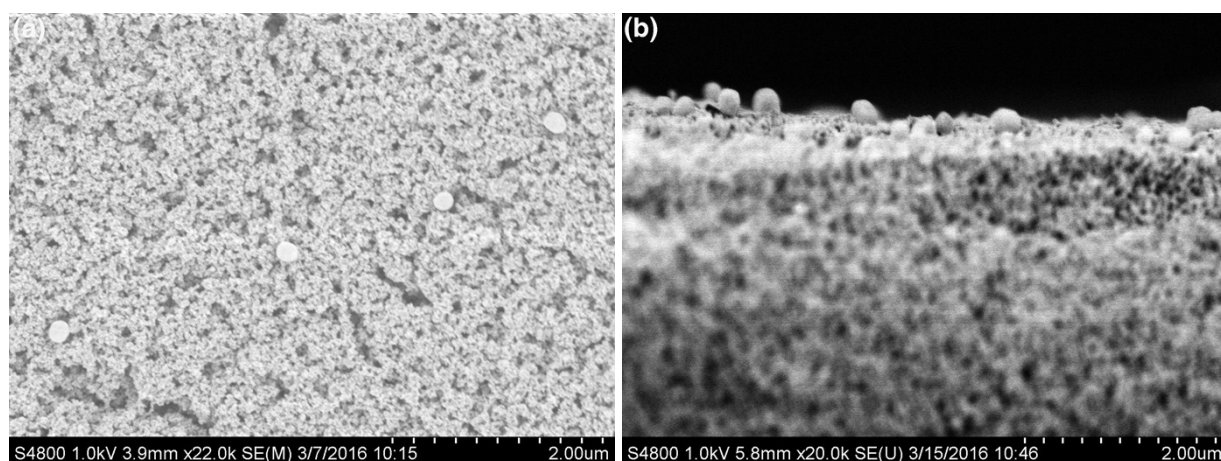


Figure S4. The top (a) and cross-sectional (b) view SEM images for the photoanode with Au layer of 162 nm nanoparticles

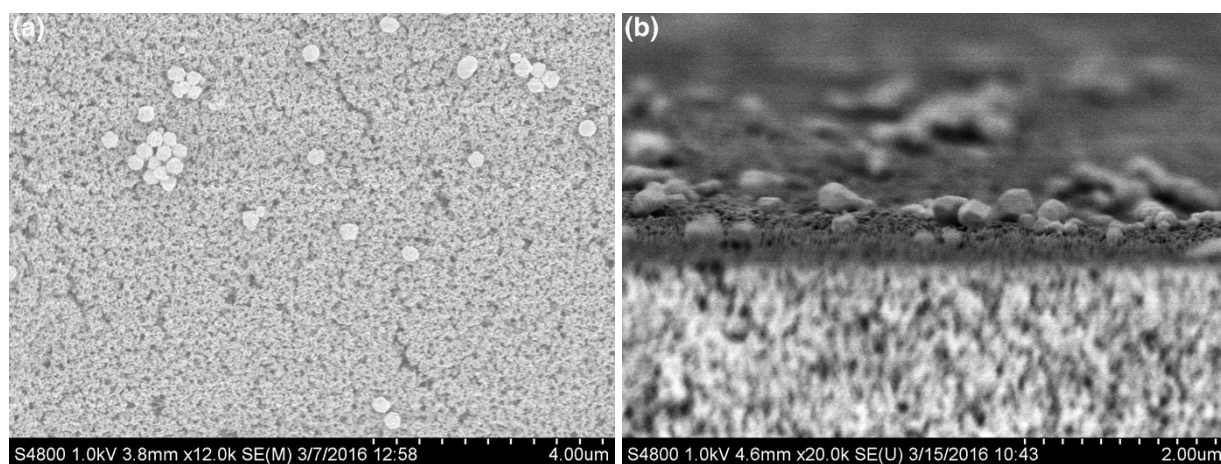


Figure S5. The top (a) and cross-sectional (b) view SEM images for the photoanode with Au layer of 203 nm nanoparticles

Table S1. Photovoltaic performance of DSSCs with different amount of Au nanoparticles (203 nm)

Au amount/ $\mu\text{g cm}^{-2}$	$V_{\text{oc}} / \text{mV}$	$J_{\text{sc}} / \text{mA cm}^{-2}$	FF	$\eta / \%$
1	764	17.27	0.73	9.63
2	732	14.81	0.72	7.81
3	711	12.70	0.74	6.68
4	665	8.04	0.65	3.48