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)

<table>
<thead>
<tr>
<th>Au amount/μg cm²</th>
<th>$V_{oc}$ / mV</th>
<th>$J_{sc}$ / mA cm²</th>
<th>FF</th>
<th>η / %</th>
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<td>764</td>
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