Supporting Information

for

Synthesis and characterization of noble metal–titania core–shell nanostructures with a tunable shell thickness

Bartosz Bartosewicz¹, Marta Michalska-Domańska¹, Malwina Liszewska¹, Dariusz Zasada² and Bartłomiej J. Jankiewicz*¹

Address: ¹Institute of Optoelectronics, Military University of Technology, Kaliskiego 2 Str. 00-908 Warsaw, Poland and ²Faculty of Advanced Technologies and Chemistry, Military University of Technology, Kaliskiego 2 Str. 00-908 Warsaw, Poland

Email: Bartłomiej J. Jankiewicz - bartlomiej.jankiewicz@wat.edu.pl

* Corresponding author

Additional experimental data
**Figure S1**: TRPS size histograms of gold (left) and silver (right) nanoparticles.

**Figure S2**: Images of Ag@TiO$_2$ (left) and Au@TiO$_2$ (right) core-shell nanostructures in form of powders and water suspensions.
Figure S3: UV–vis spectra of TiO$_2$ particles in the amorphous and crystalline forms.

Table S1: Concentration of TBT in final mixtures.

<table>
<thead>
<tr>
<th>Sample</th>
<th>A, E</th>
<th>B, F</th>
<th>C, G</th>
<th>D, H</th>
</tr>
</thead>
<tbody>
<tr>
<td>TBT concentration</td>
<td>2.0 mM</td>
<td>2.9 mM</td>
<td>3.7 mM</td>
<td>4.6 mM</td>
</tr>
</tbody>
</table>