Electronic Supplementary Information (ESI)

Synthesis of three-dimensional AgI@TiO$_2$ nanoparticles with improved photocatalytic performance

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**Figure S1.** EDAX spectrum of AgI@TiO₂, indicating that sample contains Ag, I, Ti, and O. Ag, I, Ti and O peaks are from the obtained AgI@TiO₂ nanoparticles. The Al peak is from the substrate holder, and C peak may be caused by the adsorbed carbon oxides on the sample in the air.

**Figure S2.** The absorption spectra of RhB solution before and after adsorption on the surfaces of AgI@TiO₂ nanocomposites.