

Figure S1. Main steps involved in the synthesis of the SiO₂@TiO₂ core-shell NPs.

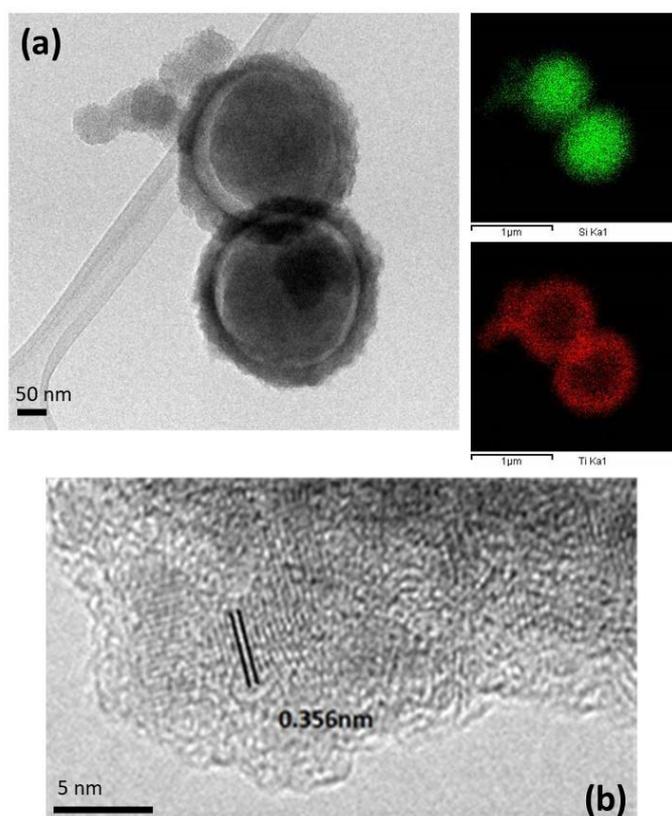


Figure S2. HR-TEM images of (a) SiO₂@TiO₂ core-shell NPs HT1 and EDS Si (green) and Ti (red) element map of sample HT1. The detail in section (b) is the high-resolution image of the HT1 shell with the evidence of the 0.356 nm fringe pattern.

Table S1. Images of the vials containing the powdered sample and the MB solution with different times of exposure to UV light and after filtration

	SiO ₂ @TiO ₂						
	SiO ₂	TiO ₂	Calcined	HT1	HT2	HT1 US ¹	MB
0 min							
15 min							
60 min							
300 min							
480 min							

¹ US - UpScaled