

Supporting Information

Influence of the sacrificial polystyrene removal pathway on the TiO₂ nanocapsules structure

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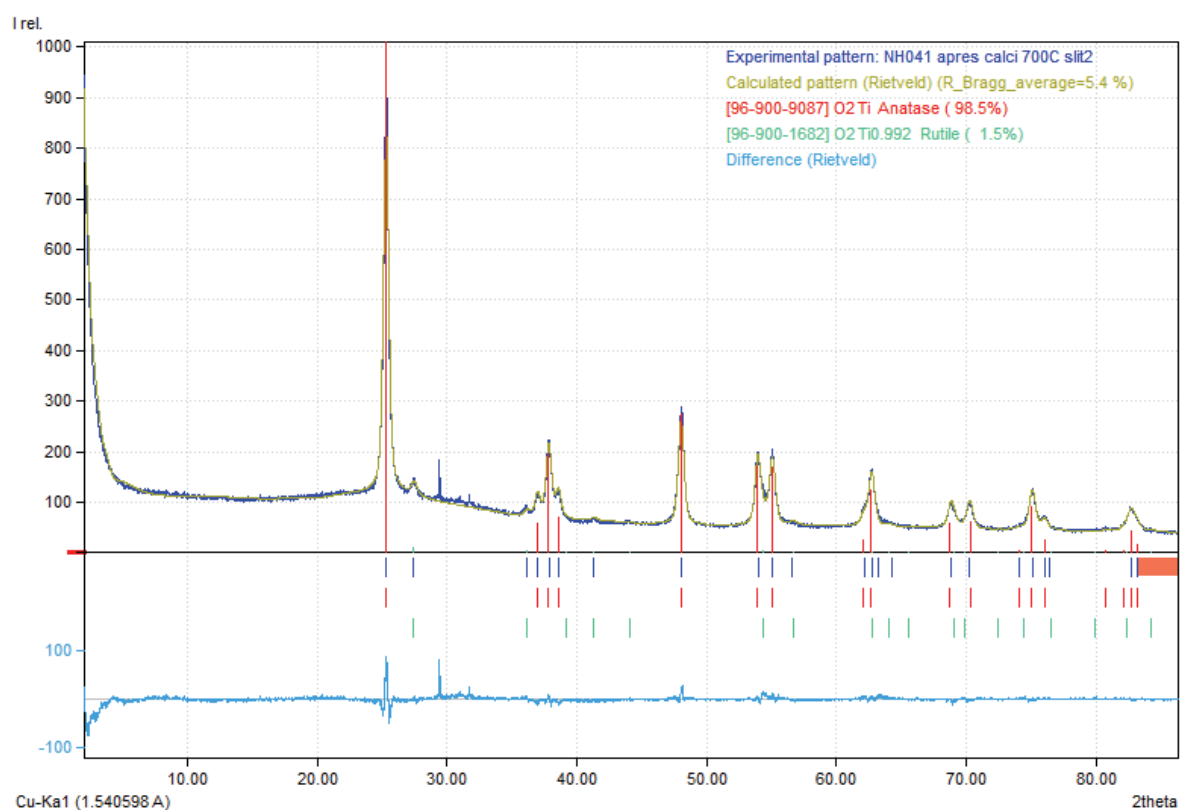


Figure S1: Comparison of experimental pattern of PS@TiO₂-1 after calcination at 700 °C and calculated pattern from Rietveld refinement ($R_{\text{Bragg}} = 5.4\%$)

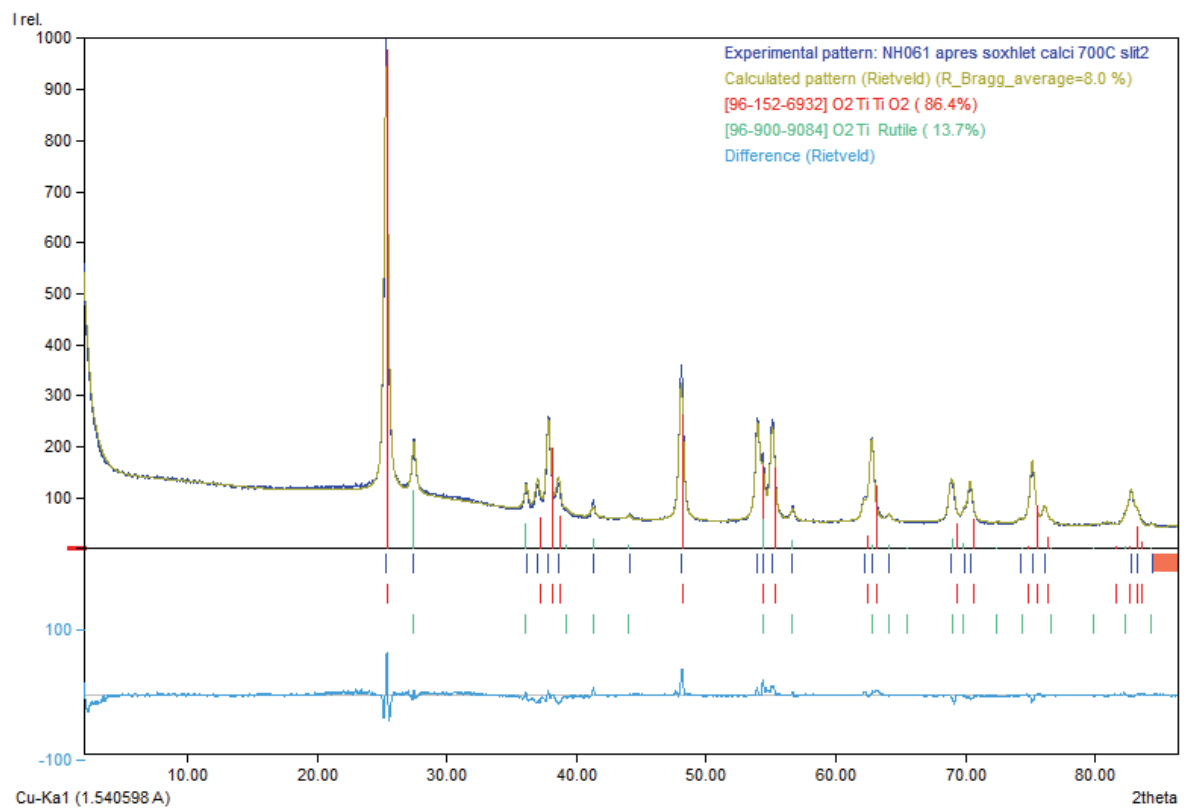


Figure S2: Comparison of experimental pattern of PS@TiO₂-2 after PS dissolution and calcination at 700 °C and calculated pattern from Rietveld refinement ($R_{\text{Bragg}} = 8.0\%$)

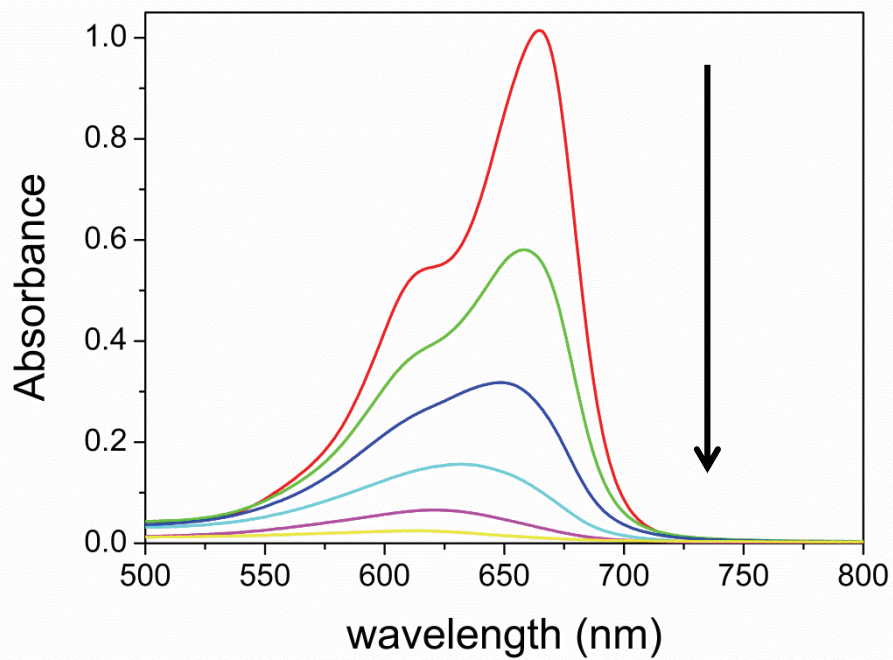


Figure S3: Visible spectra of MB photodegradation over PS@TiO₂-1 after calcination at 500 °C for 2h.

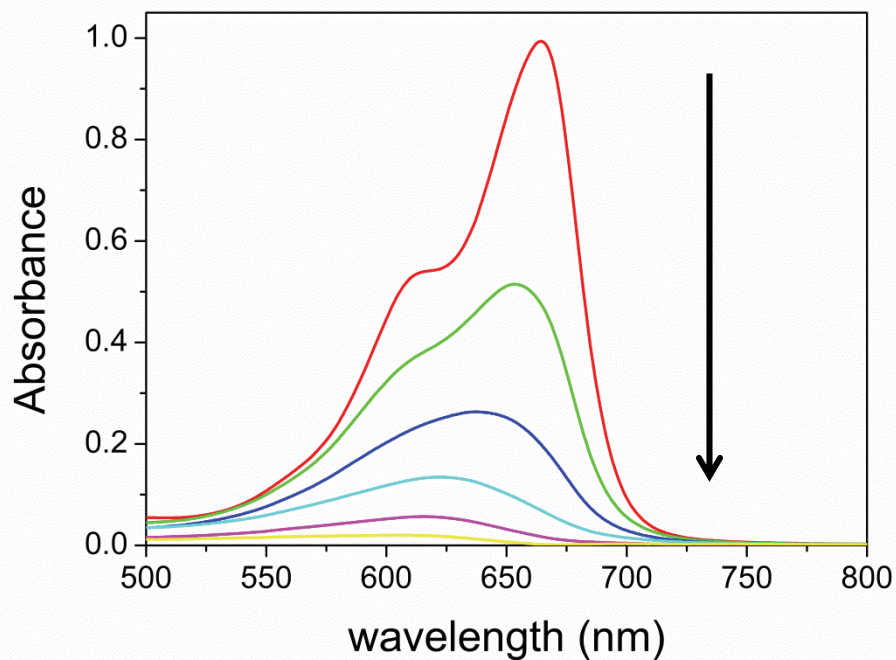


Figure S4: Visible spectra of MB photodegradation over PS@TiO₂-2 after calcination at 500 °C for 2h.

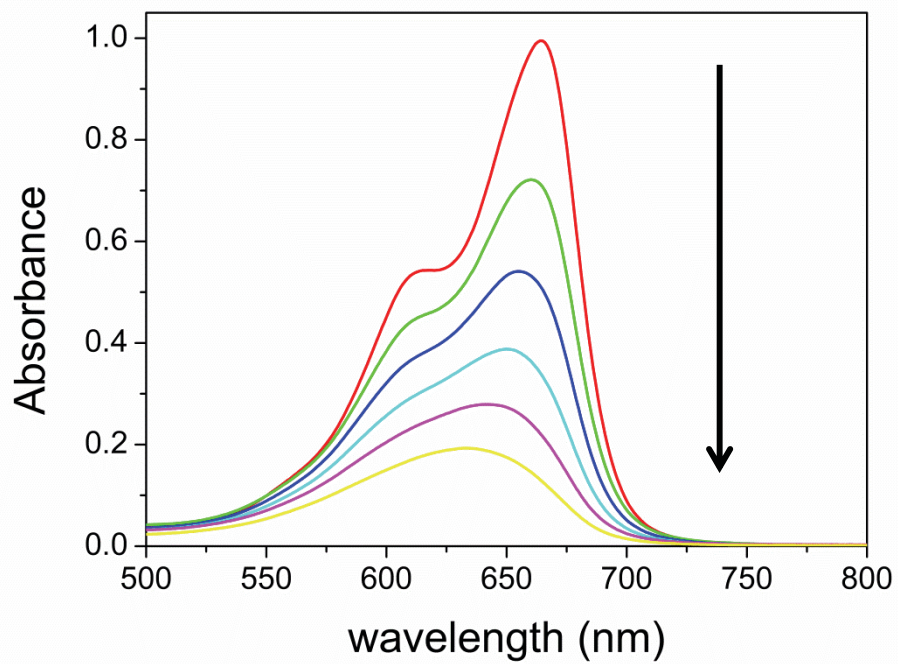


Figure S5: Visible spectra of MB photodegradation over PS@TiO₂-2thick after calcination at 500 °C for 2h.