

Supplementary Material

# UV-Induced Photocatalytic Cashmere Fibers

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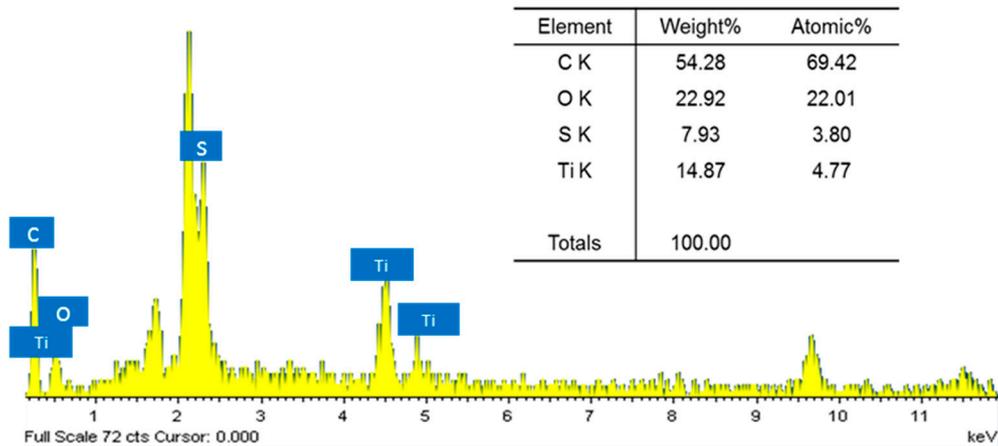


Figure S1. EDS of 10% TiO<sub>2</sub>-coated cashmere.

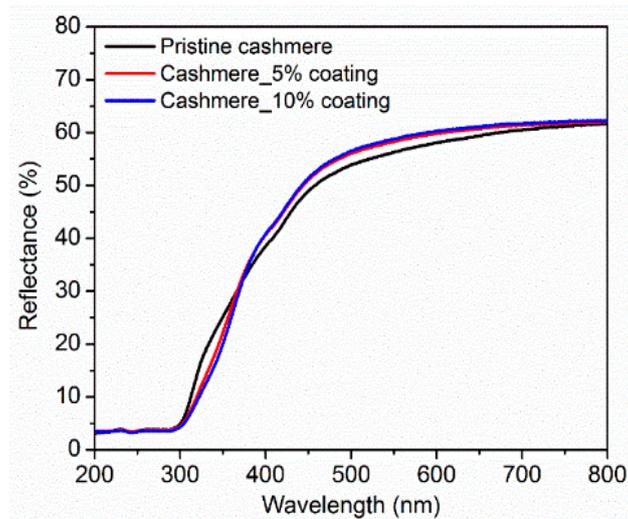
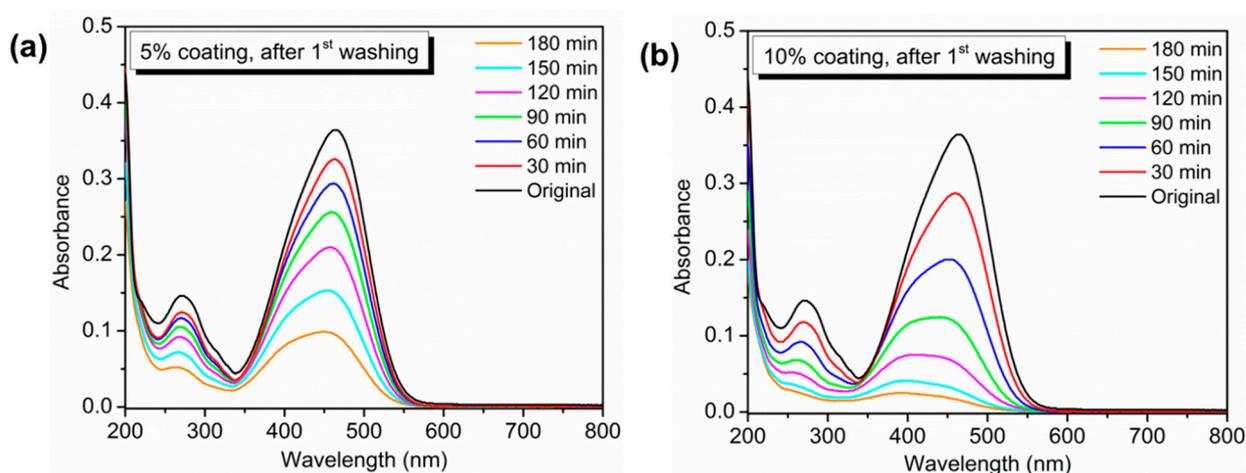
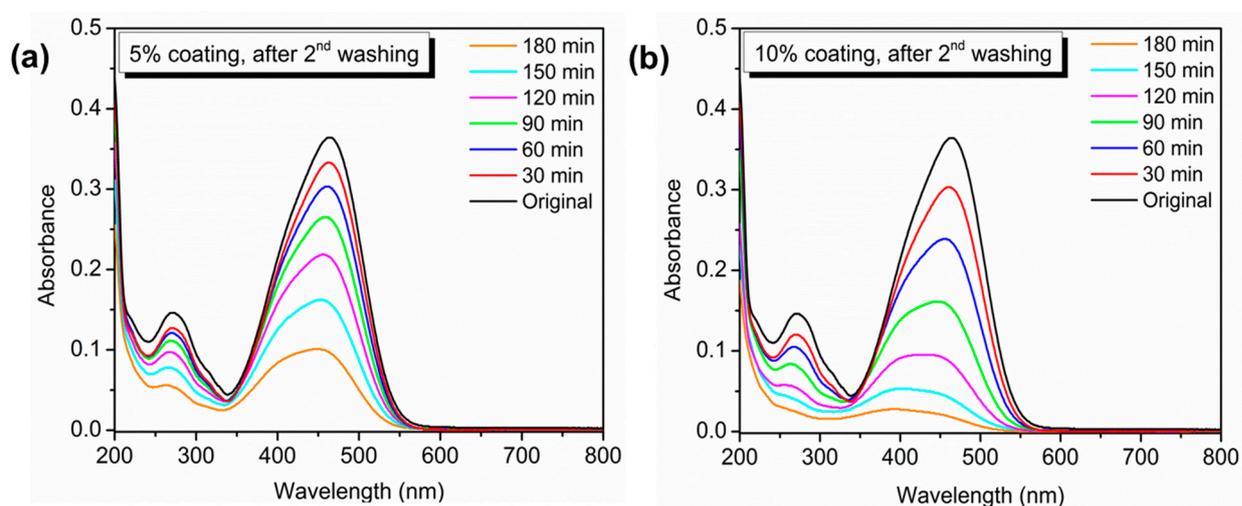


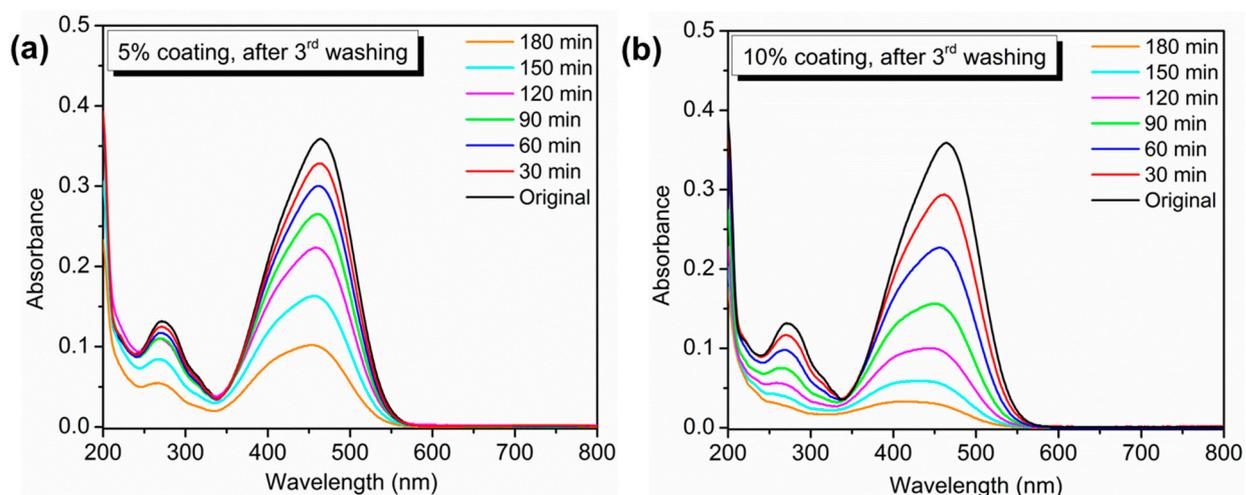
Figure S2. UV-vis diffuse reflectance spectra of pristine and coated cashmere.



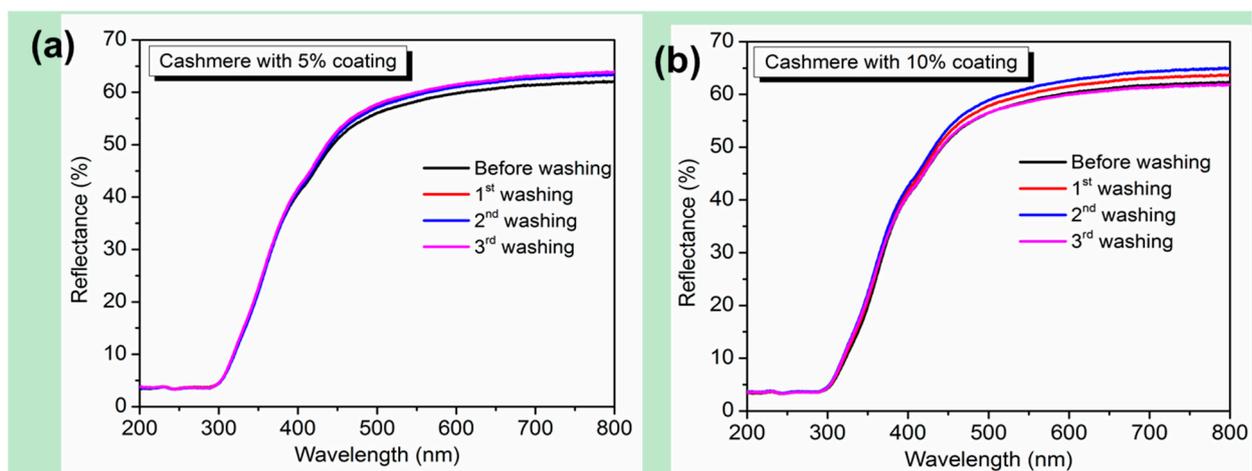
**Figure S3.** Absorption spectra of MO in presence of cashmere fabrics with (a) 5% and (b) 10% TiO<sub>2</sub> nano-coatings after the 1st washing.



**Figure S4.** Absorption spectra of MO in presence of cashmere fabric with (a) 5% and (b) 10% TiO<sub>2</sub> nano-coating after the 2nd washing.



**Figure S5.** Absorption spectra of MO in presence of cashmere fabric with (a) 5% and (b) 10% TiO<sub>2</sub> nano-coating after the 3rd washing.



**Figure S6.** UV-vis diffuse reflectance of cashmere with (a) 5% TiO<sub>2</sub> coating and (b) 10% TiO<sub>2</sub> coating after washing.



**Figure S7.** Optical image showing water contact angle on pristine cashmere.