

## Supporting Information

Article

# Innovative Ag–TiO<sub>2</sub> Nanofibers with Excellent Photocatalytic and Antibacterial Actions

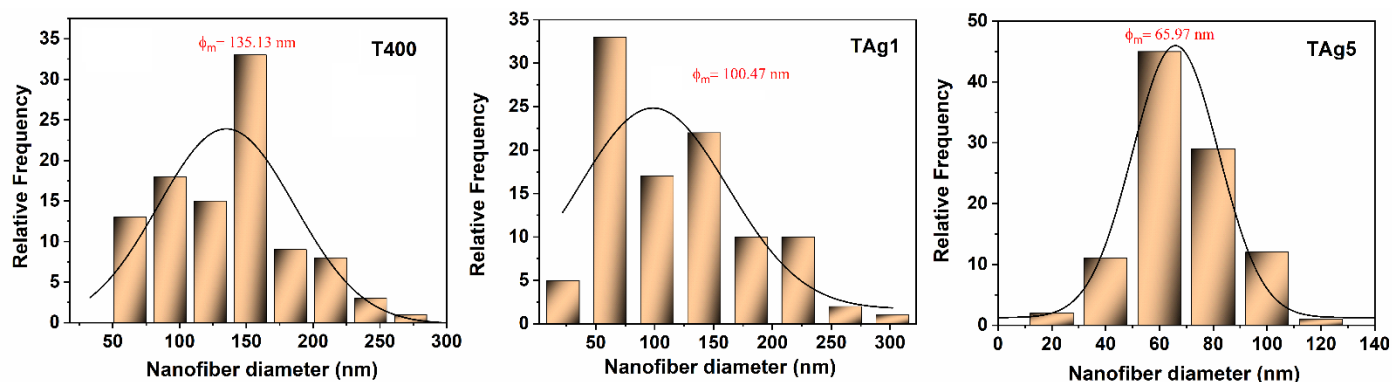
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**Figure S1.** Histogram of fiber diameter distribution plotted from SEM images analysis of pure TiO<sub>2</sub> (T400) and Ag doped TiO<sub>2</sub> (TAg1 and TAg5).

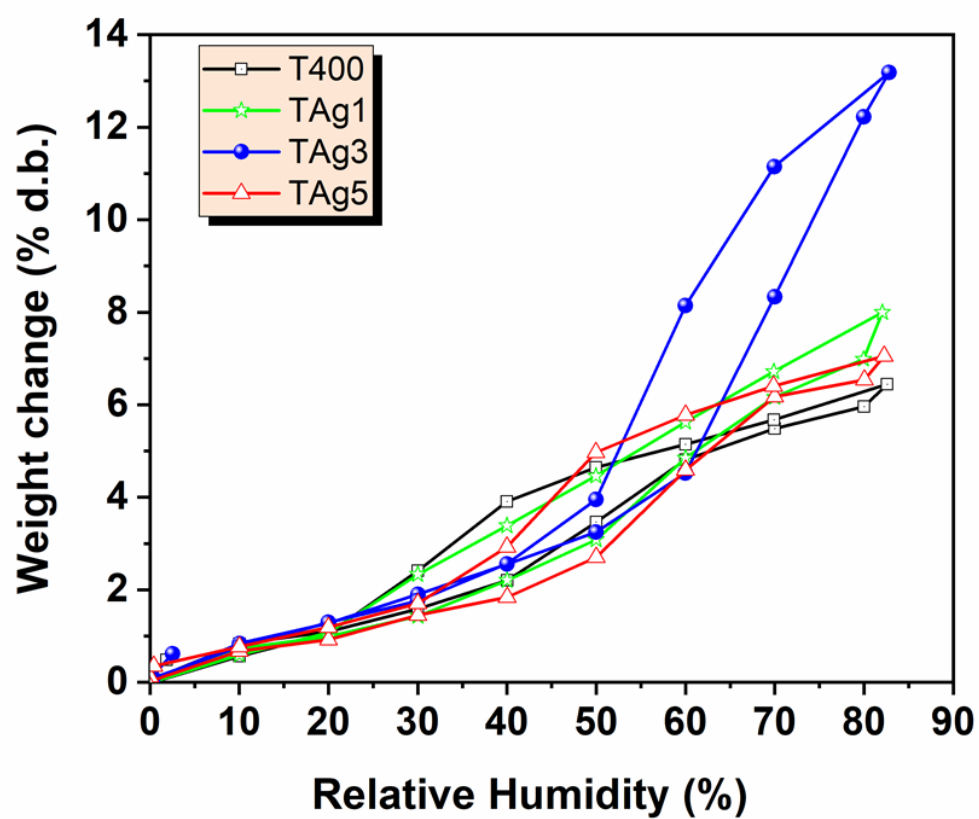
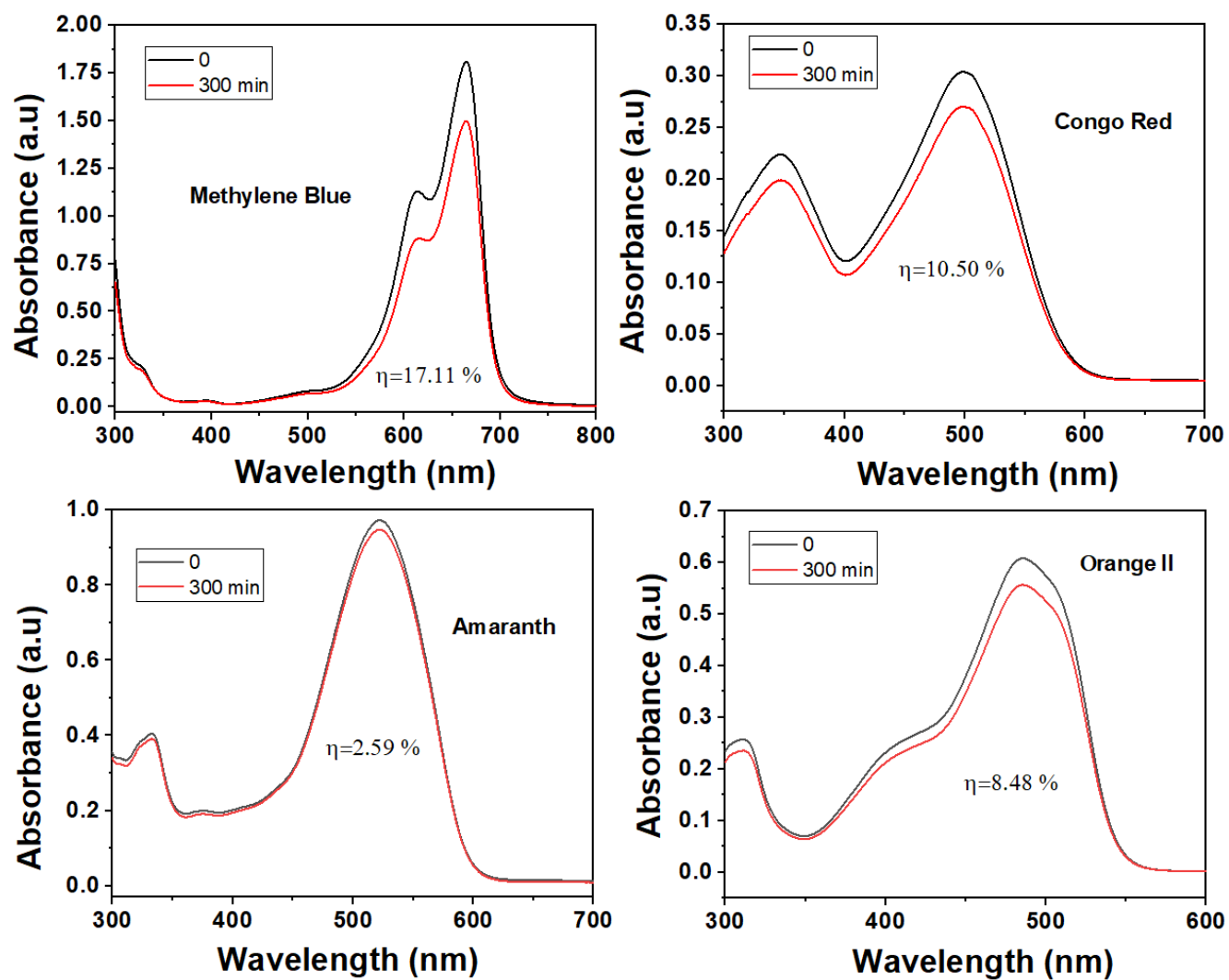
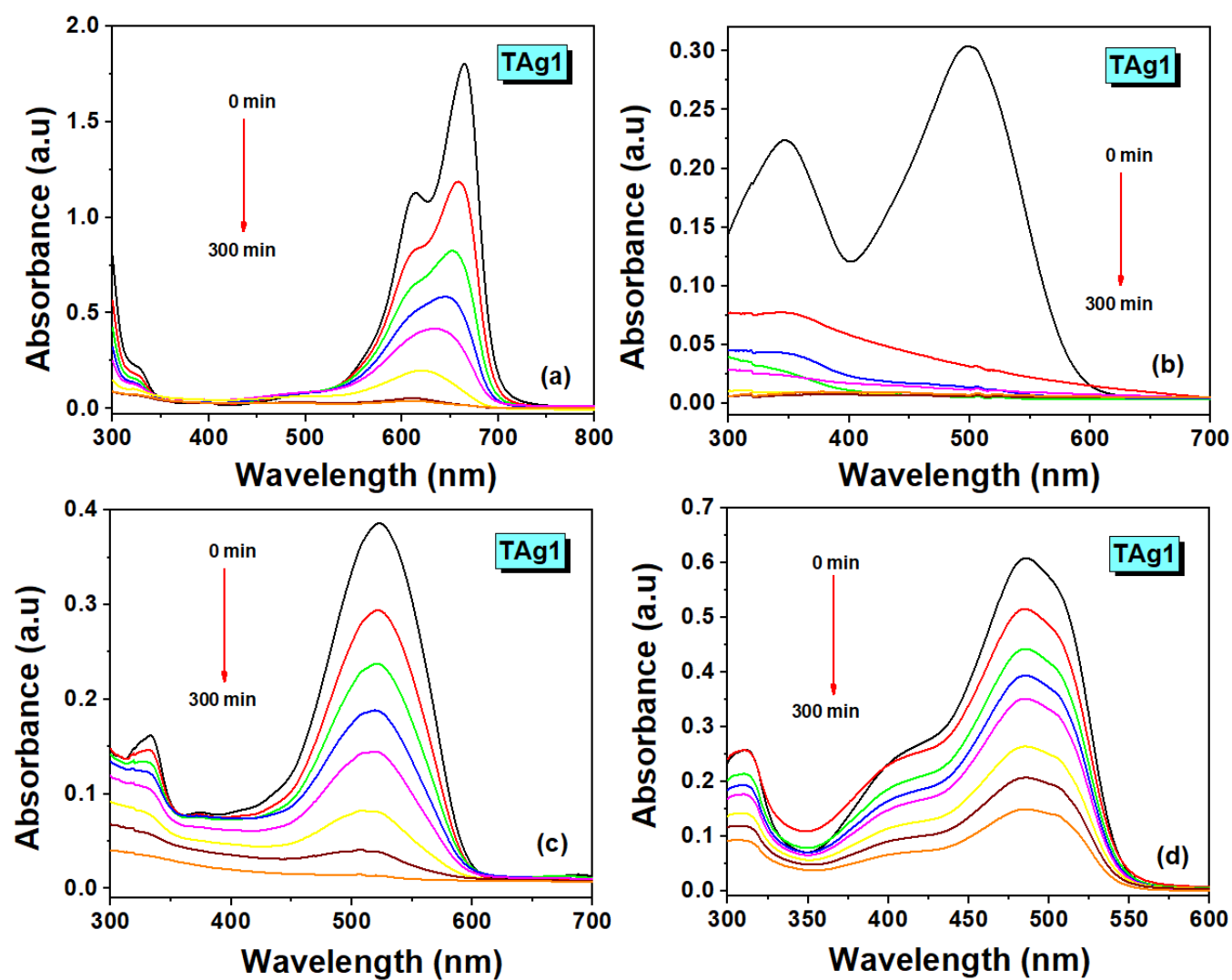


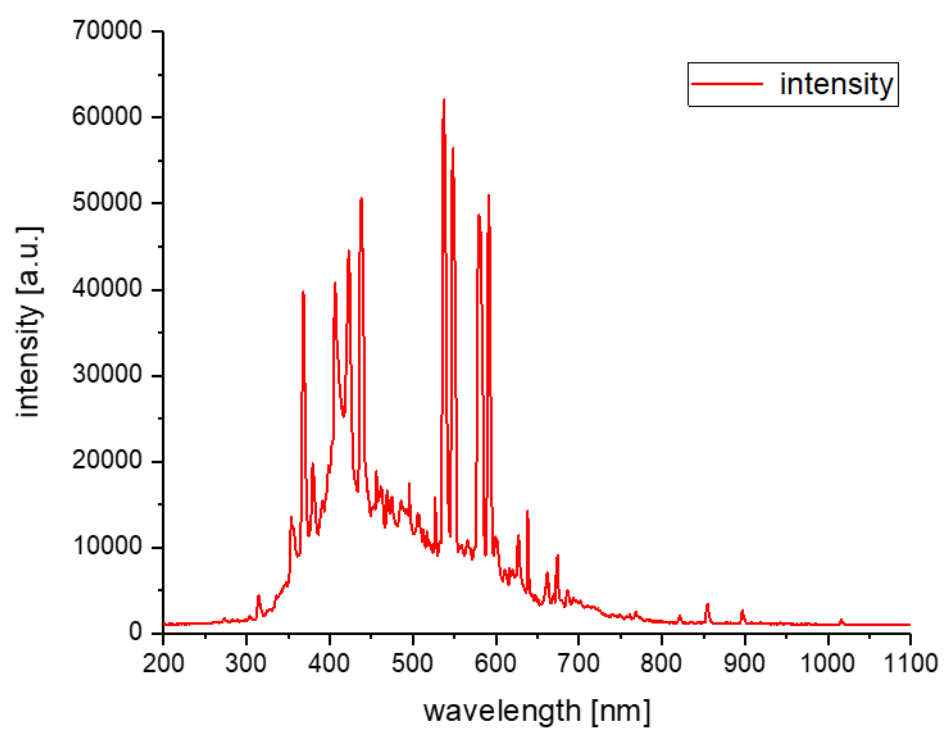
Figure S2. Dynamic vapor sorption isotherms for pure TiO<sub>2</sub> and Ag doped TiO<sub>2</sub> materials.



**Figure S3.** UV-VIS absorption spectra of the photolysis test for all 4 dyes performed under visible light irradiation for 300 minutes.



**Figure S4.** UV-VIS absorption spectra recorded for the degradation of (a) MB, (b) CR, (c) Amaranth and (d) Orange II dyes.



**Figure S5.** Lamp spectrum.