Supplementary Information

New insights into the photocatalytic properties of composites based on TiO_2 and single-walled carbon nanotubes

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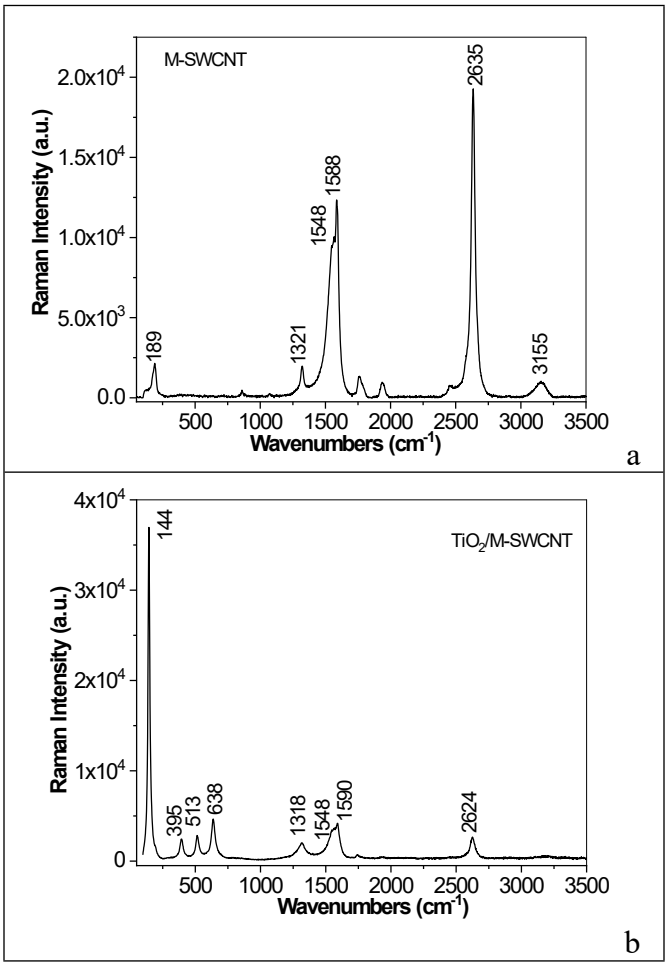

Figure S1. Raman spectra of M-SWCNT (a) and the TiO_2/M-WSCNT composite with 1Wt.% M-SWCNT (b). The excitation wavelength is 633 nm.

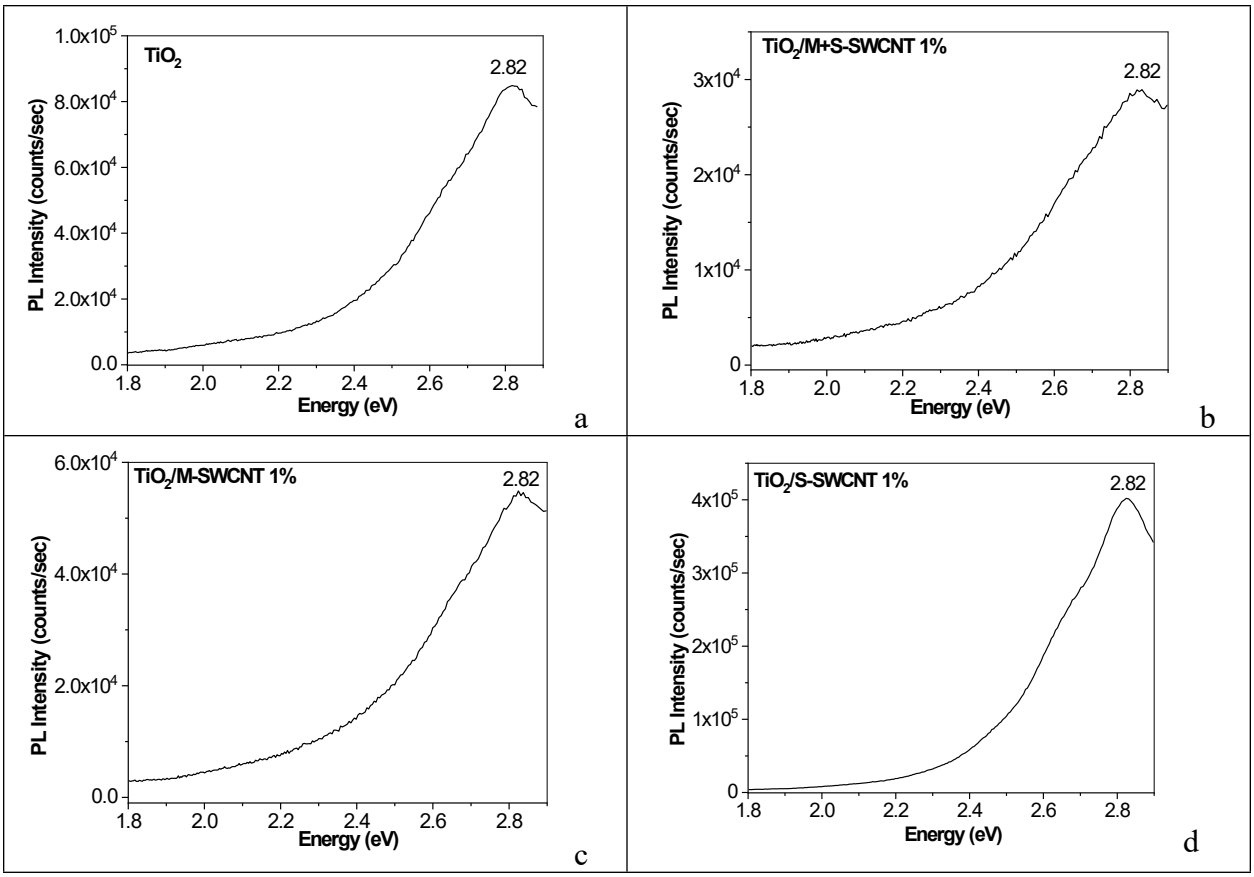

Figure S2. PL spectra of TiO_2 (a) and composites TiO_2/M+S-SWCNT (b), TiO_2/M-SWCNT (c) and TiO_2/S-SWCNT (d), with a concentration of carbon nanotubes in each sample equal to 1 wt.%. The excitation wavelength is 360 nm.

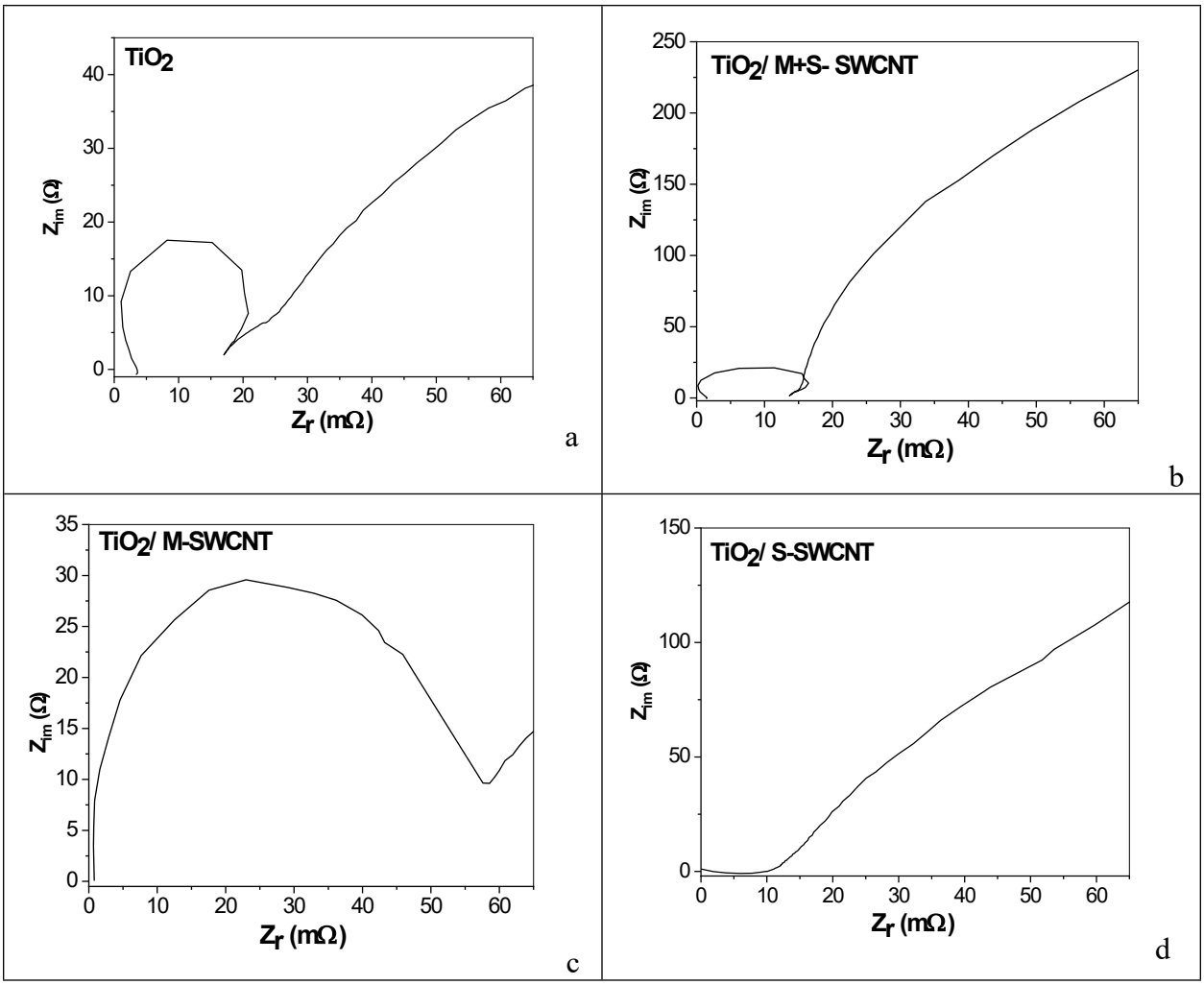

Figure S3. Nyquist plots of TiO_2 (a) and composites TiO_2/M+S-SWCNT (b), TiO_2/M-SWCNT (c), and TiO_2/S-SWCNT (d), with a concentration of carbon nanotubes in each sample equal to 1 wt.%.

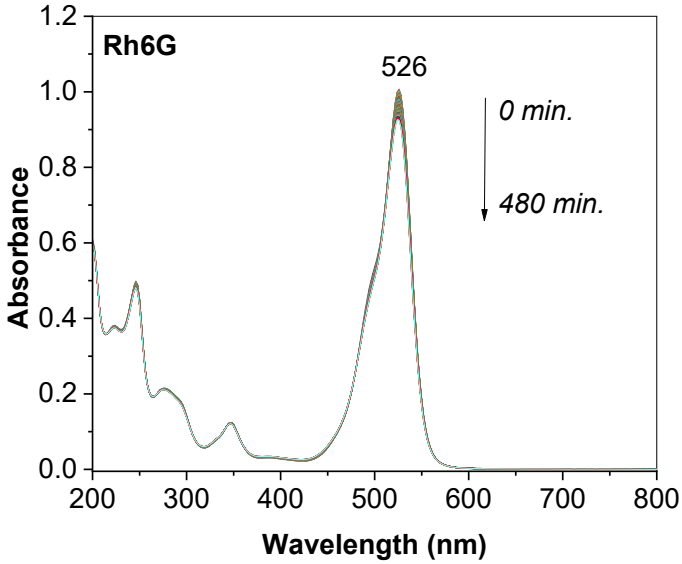

Figure S4. Evolution of the UV-VIS spectra of the 0.1 mM Rh6G solution during exposure to light emitted by a halogen lamp.