

# Photocatalytic Activity of $\text{TiO}_2/\text{g-C}_3\text{N}_4$ Nanocomposites for Removal of Monochlorophenols from Water

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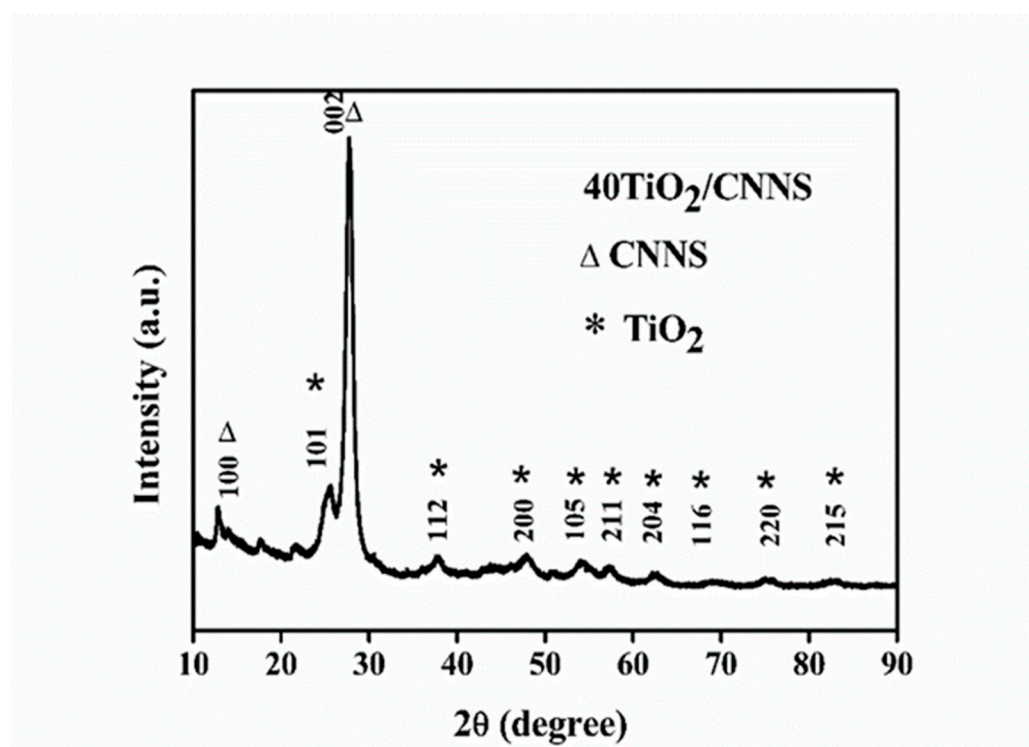
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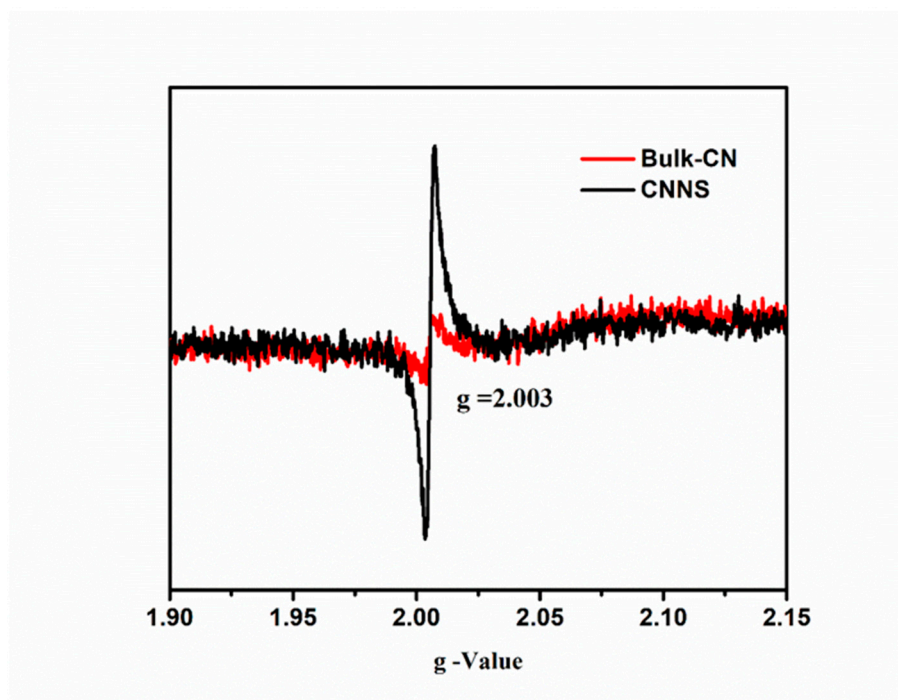
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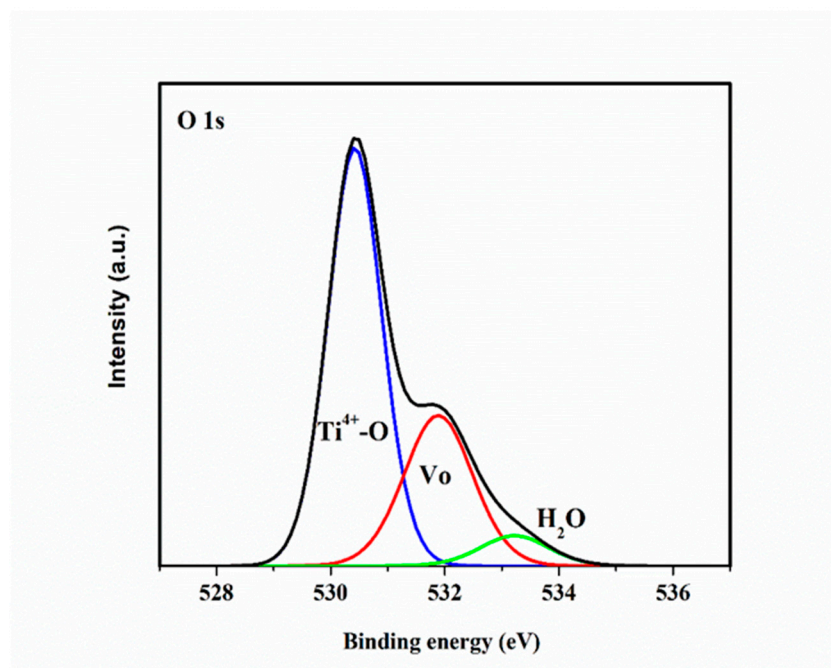
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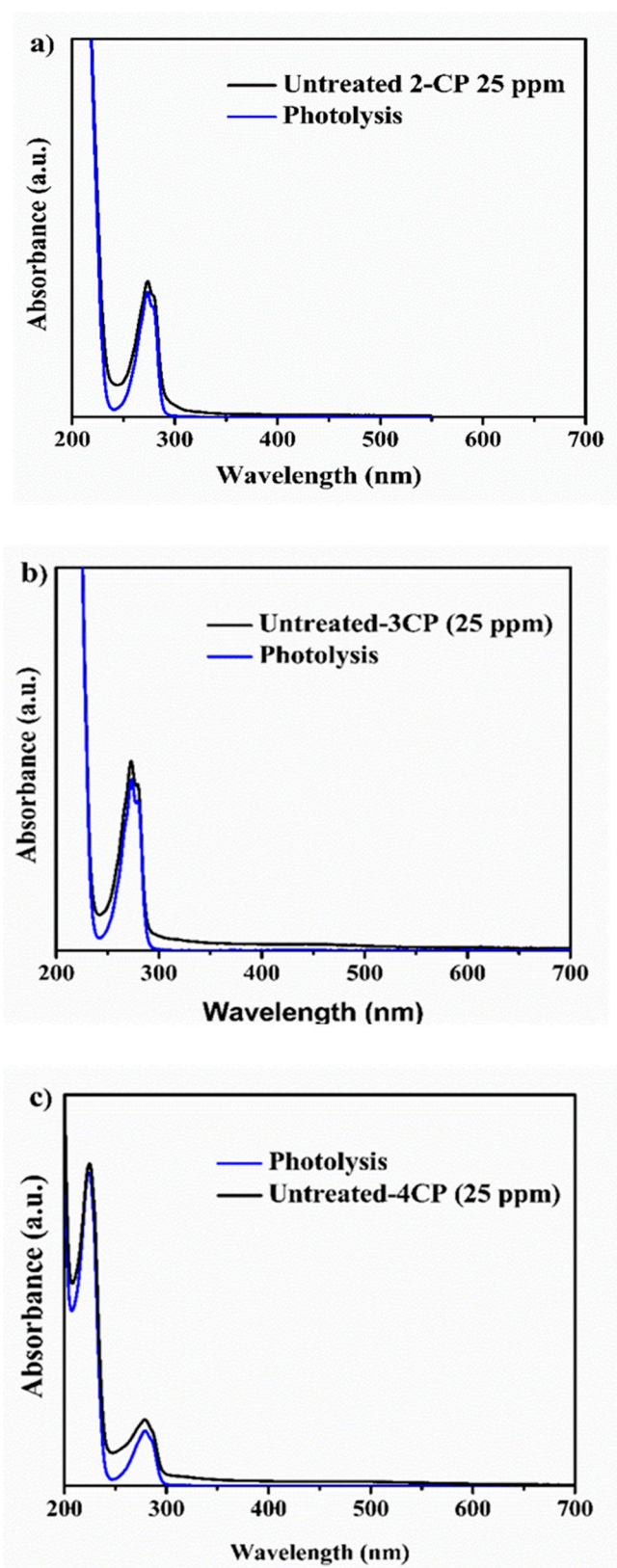
**Figure S1.** Enlarged powder X-ray diffraction profile of the 40TiO<sub>2</sub>/CNNS composite.



**Figure S2.** Solid phase ESR spectra of bulk-CN (red) and CNNS (black).

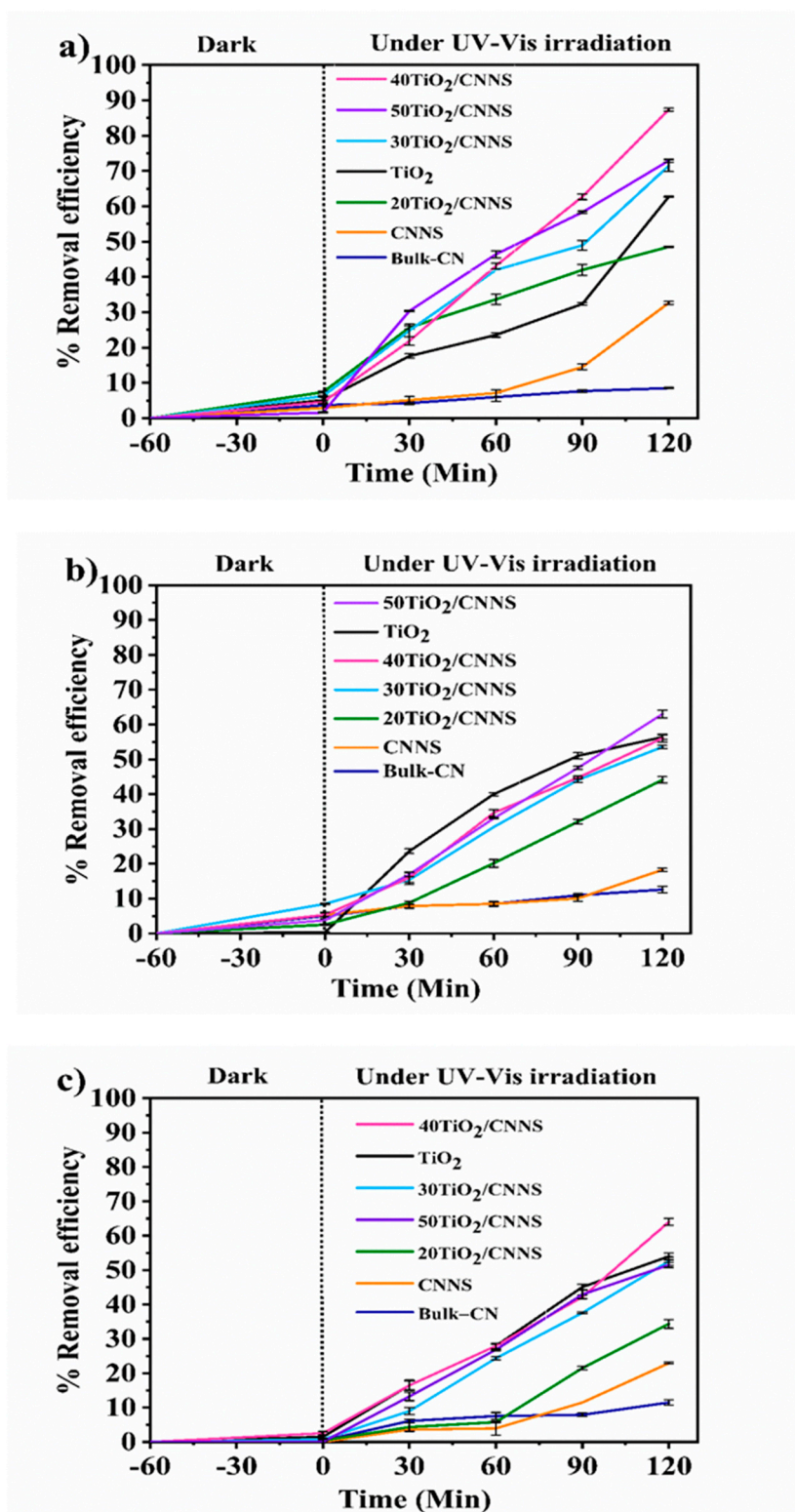


**Figure S3.** Convolution fitting for the O 1s XPS spectrum in TiO<sub>2</sub>.

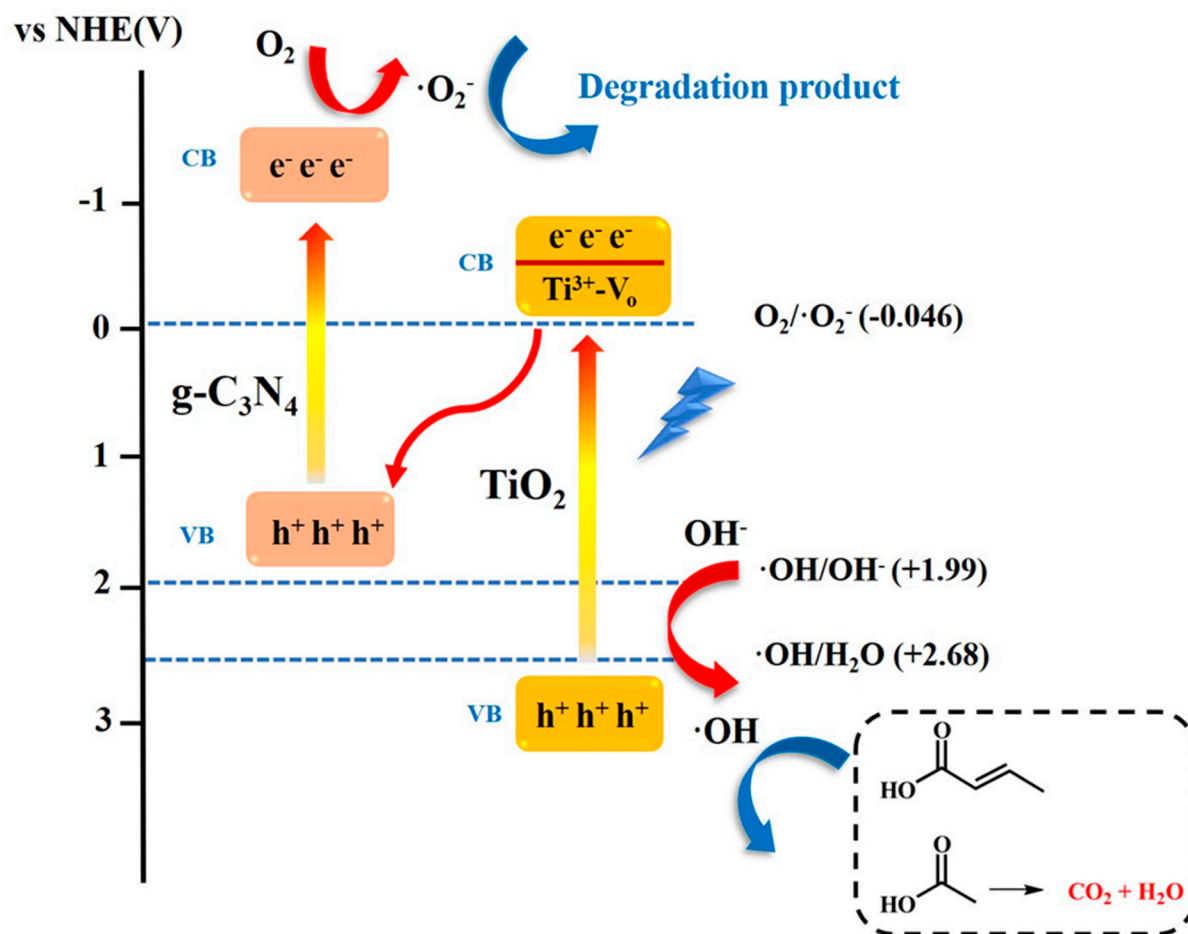


**Figure S4.** UV-vis spectra for photolysis of (a) 2-CP, (b) 3-CP and (c) 4-CP aqueous solutions in the absence of catalyst.





**Figure S5.** Time-dependent photocatalytic degradation of (a) 2-chlorophenol, (b) 3-chlorophenol, and (c) 4-chlorophenol when treated with g-C<sub>3</sub>N<sub>4</sub>, TiO<sub>2</sub> and composites under UV-Vis irradiation (25 ppm pollutant, 1g/L catalyst loading).



**Figure S6.** Photocatalytic mechanism of utilizing 40TiO<sub>2</sub>/CNNS for MCPs degradation.