

Supplementary Information

Ultrasonic-Induced Nanocomposites with anatase@amorphous TiO₂ Core-Shell Structure and their Photocatalytic Activity

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Figures

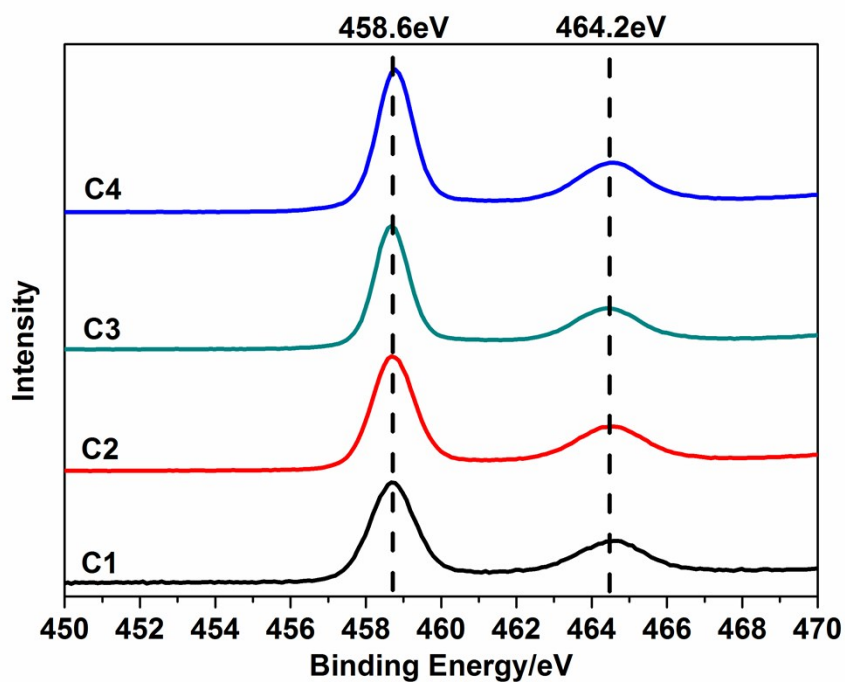


Figure S1. Ti 2p XPS spectra of anatase@amorphous TiO₂ core-shell structure composites with various phase proportions.

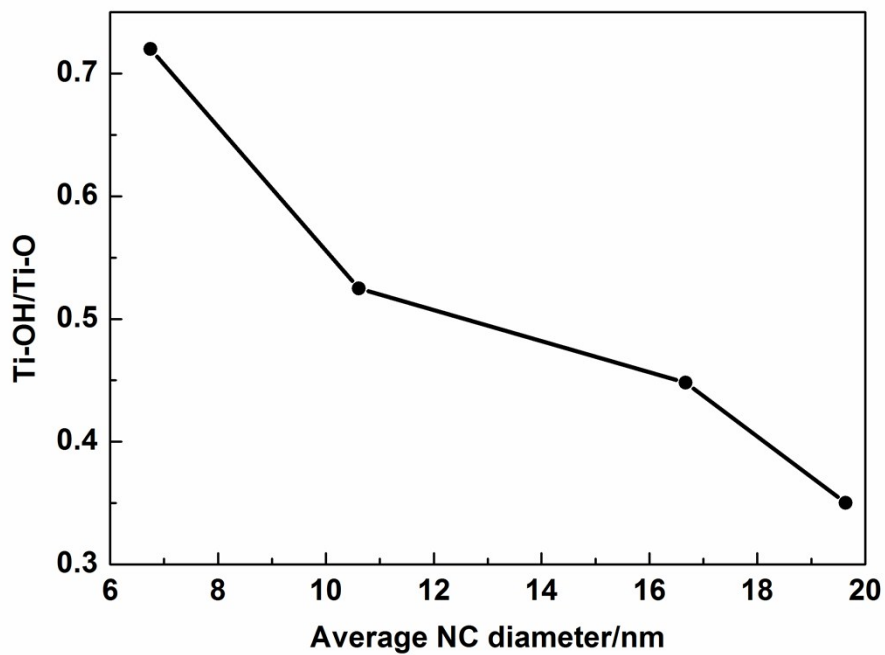


Figure S2. Changes of Ti-OH/Ti-O ratio in anatase@amorphous TiO₂ core-shell structure composites with various phase proportions.

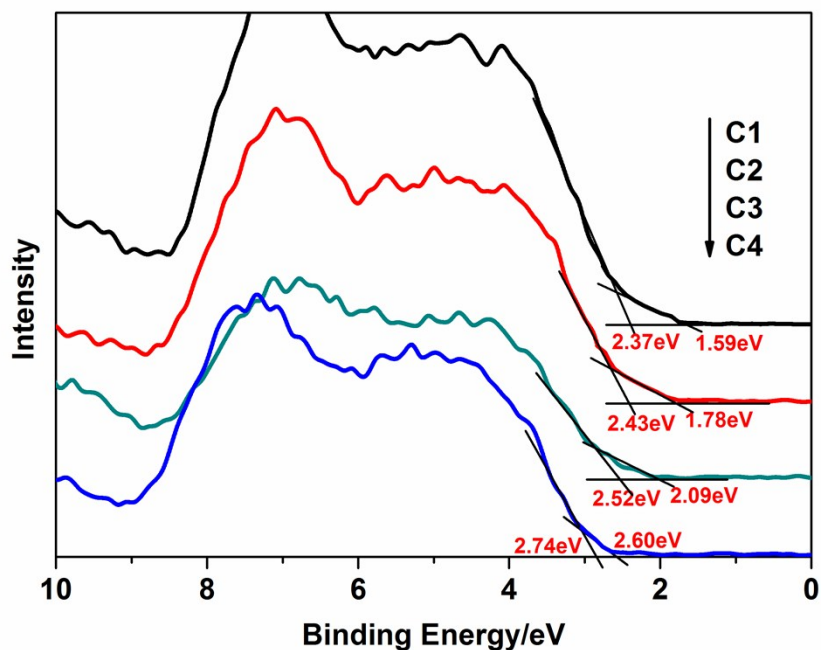


Figure S3. VB XPS spectra of anatase@amorphous TiO_2 core-shell structure composites with various phase proportions.

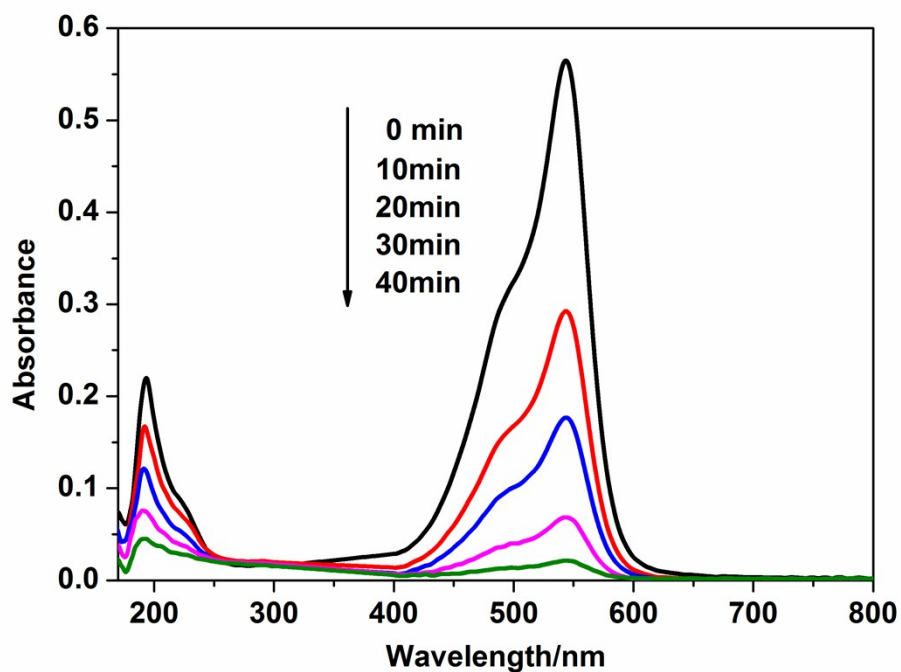


Figure S4. Absorption spectra of AF solution at different time after irradiating with simulated solar light and using C2 as the photocatalyst.

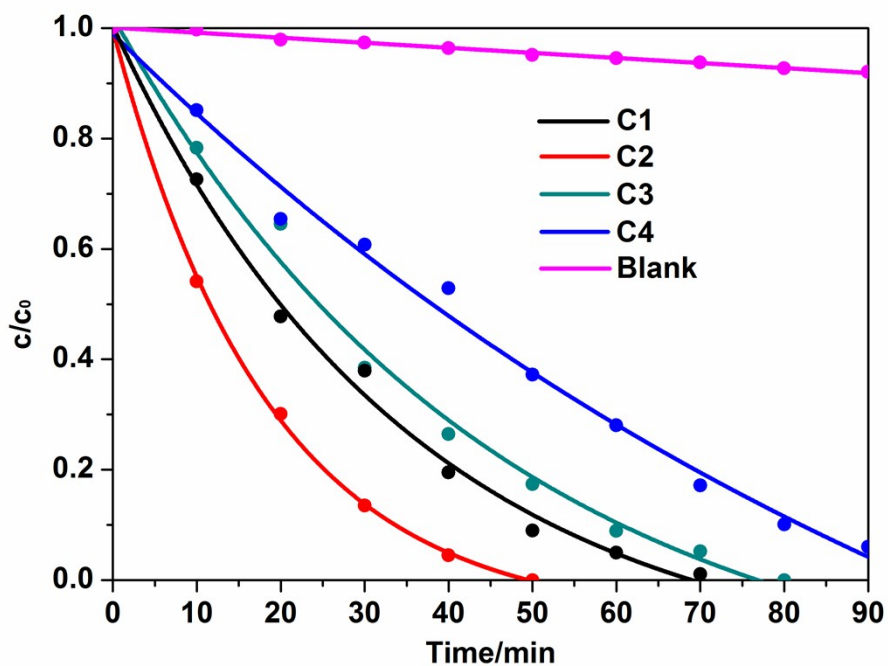


Figure S5. Evaluations of solar-driven photocatalytic activity (AF degradation) of anatase@amorphous TiO₂ core-shell structure composites with various phase proportions.

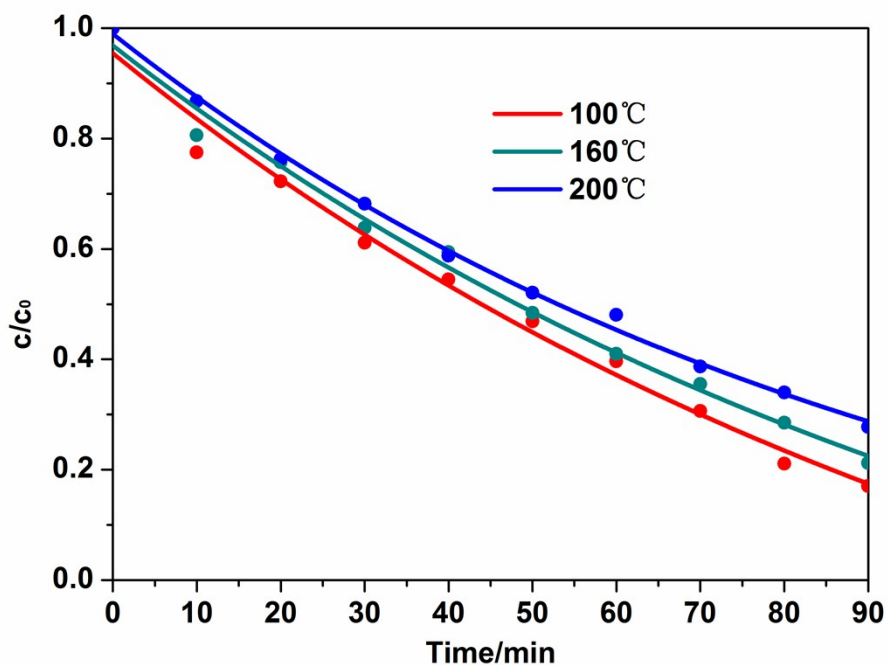


Figure S6. Evaluations of solar-driven photocatalytic activity (AF degradation) of hydrothermally synthesized anatase NCs at 100°C, 160°C and 200°C respectively.

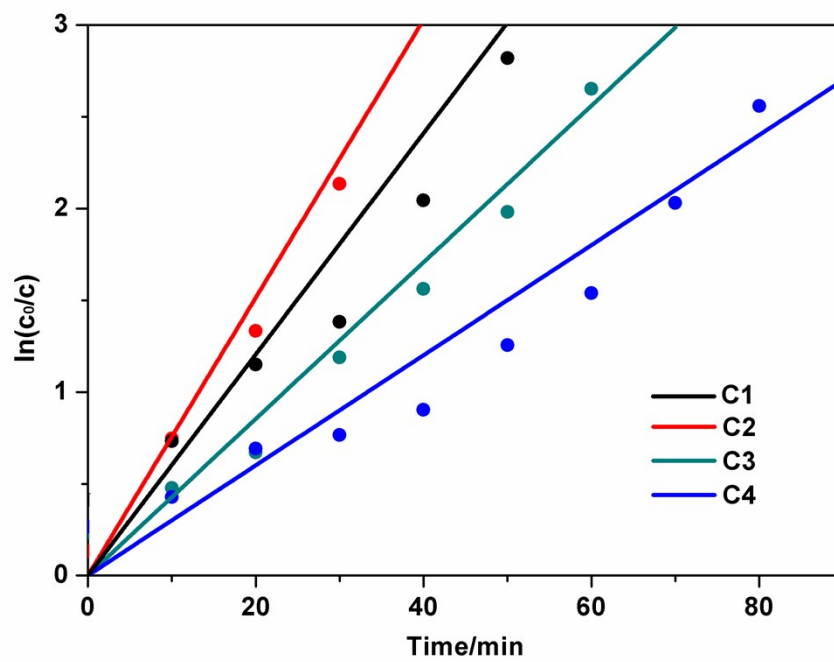


Figure S7. Kinetic plots of photocatalysis for anatase@amorphous TiO_2 core-shell structure composites with various phase proportions