

3D Chrysanthemum-like g-C₃N₄/TiO₂ as an Efficient Visible-light-driven Z-scheme Hybrid Photocatalyst for Tetracycline Degradation

Jia Yu,* Chuanxiang Zhang,* Yulin Yang, Ting Su, Guiyun Yi, Xiuxiu Zhang

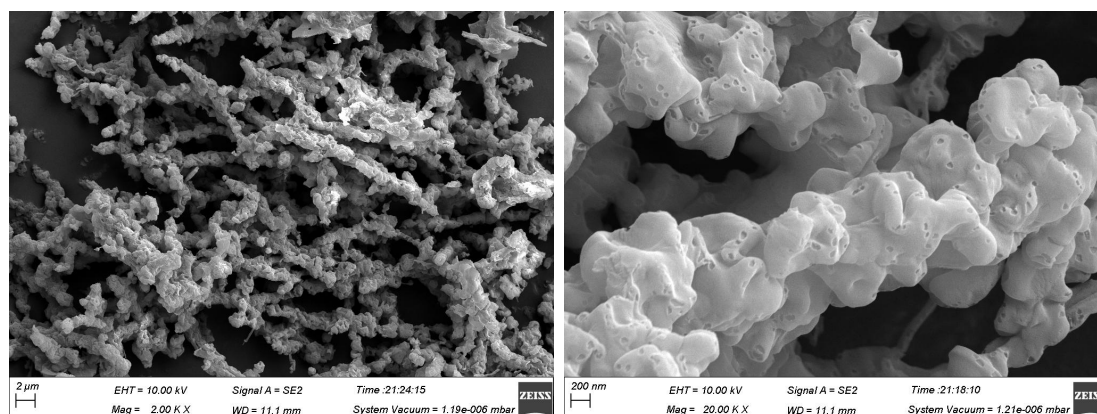


Fig. S1 SEM images of C₃N₄.

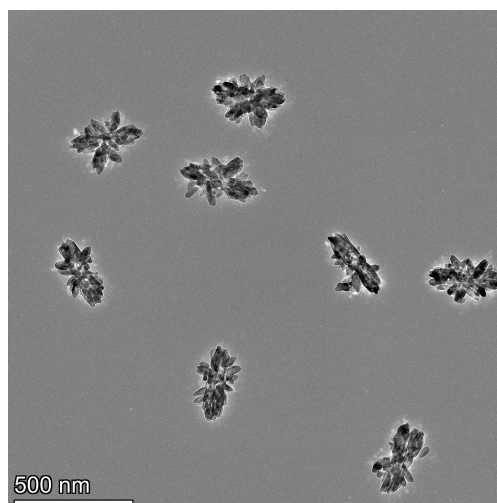


Fig. S2 TEM image of TiO₂.

Table S1 BET surface area, pore volume and pore size of TiO₂, g-C₃N₄ and g-C₃N₄/TiO₂-2.

Sample	TiO ₂	g-C ₃ N ₄	g-C ₃ N ₄ /TiO ₂ -2
S _{BET} (m ² /g)	134.89	49.48	92.20
Pore Volume (cm ³ /g)	0.157	0.032	0.153
Pore Diameter Dv(d) (nm)	2.191	2.193	1.936

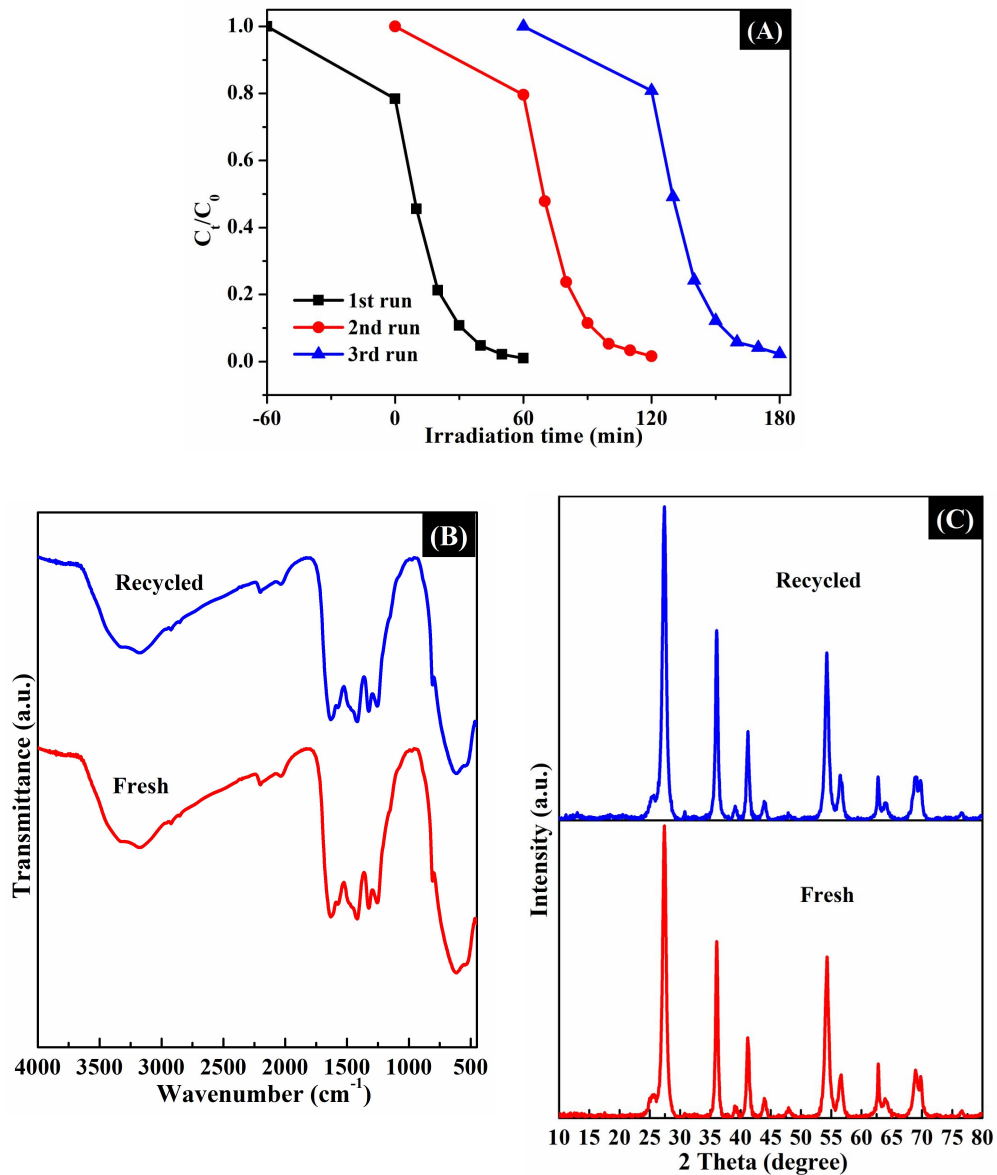


Fig. S3 (A) Stability test of $g\text{-C}_3\text{N}_4/\text{TiO}_2\text{-2}$ for degradation of tetracycline, (B) FT-IR spectra and (C) XRD patterns of the $g\text{-C}_3\text{N}_4/\text{TiO}_2\text{-2}$ before and after 3 times circulating runs.