

Supporting information

The CNT modified white C₃N₄ composite photocatalyst with enhanced visible-light response photoactivity

Yuanguo Xu,^{a,b} Hui Xu,^a Lei Wang,^a Jia Yan,^b Huaming Li,^{*b} Yanhua Song,^b Liying Huang,^b
Guobin Cai^b

^a *School of the Environment, Jiangsu University, 301 Xuefu Road, Zhenjiang, 212013, P R
China*

^b *School of Chemistry and Chemical Engineering, Jiangsu University, 301 Xuefu Road,
Zhenjiang, 212013, P R China*

Fig. S1 shows the same amount of C_3N_4 (Fig. S1 A) and the white C_3N_4 (Fig. S1 B) dispersed in 4 mL water (in the 5 ml tube) respectively and precipitated at the same time. It is obvious that the white C_3N_4 disperses much better than C_3N_4 in the water. The C_3N_4 precipitates a lot while white C_3N_4 does not precipitate obviously.

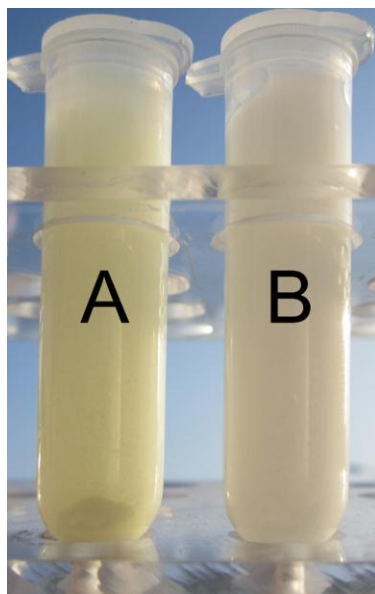


Fig. S1 The photograph of C_3N_4 (A) and white C_3N_4 (B) dispersing in the water and precipitating at the same time.

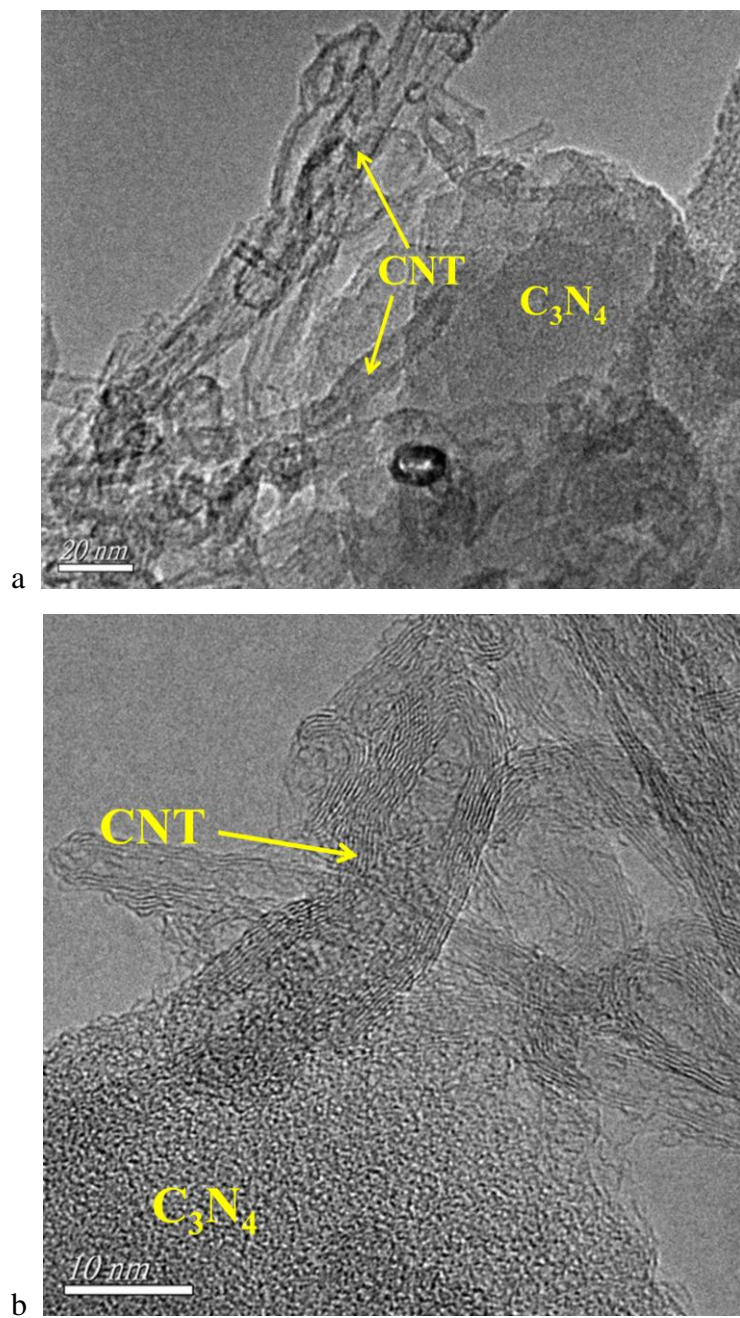


Fig. S2 TEM image (a) and HRTEM image (b) of CNT/white C₃N₄ with CNT content

about 0.475 wt %.

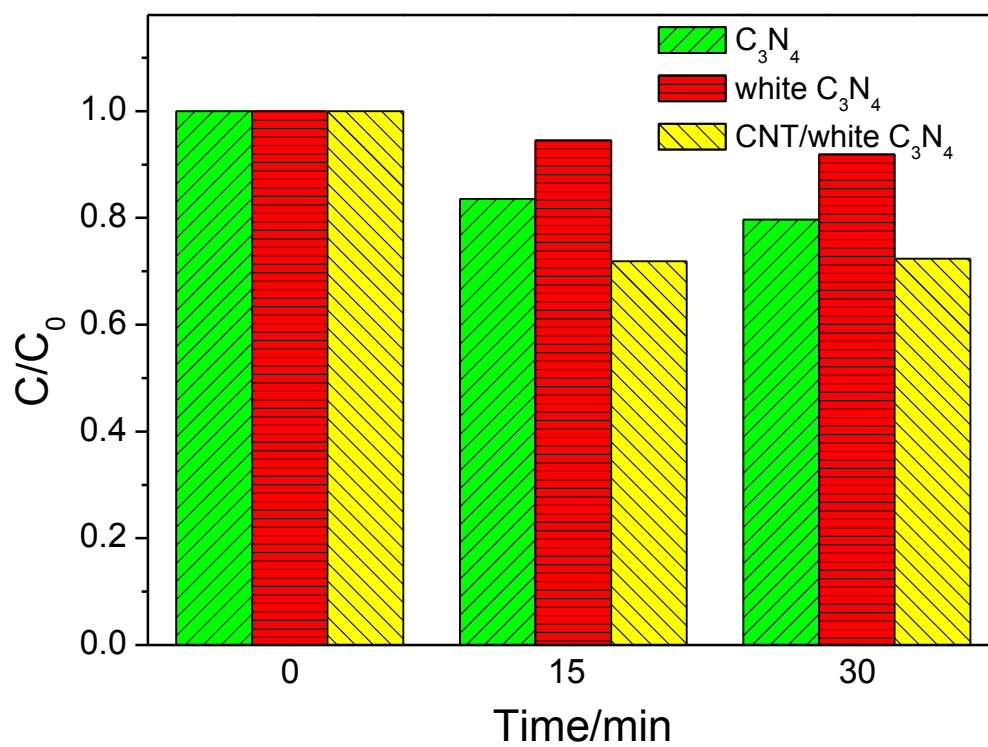


Fig. S3 Time profiles of adsorption of MB over the catalysts in the dark.