Electronic Supplementary Material (ESI) for New Journal of Chemistry.
This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2023

Enhanced oxidative degradation of tetracycline by visible light-promoted g-C_3N_4 modified $Cu_3(OH)_4SO_4/Cu_7S_4$ composites under air atmosphere

Yan Wang, Haoran Li, Daqing Chen, Danhua Ge*, Xiaojun Chen*

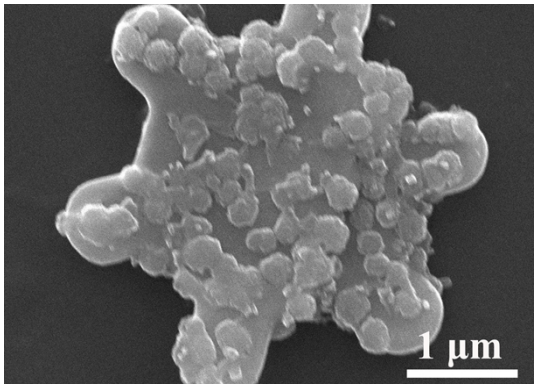

Fig. S1 SEM image of CS.

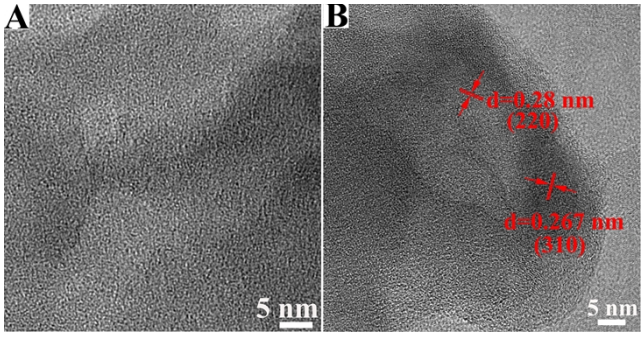

Fig. S2 HRTEM images of (A) g-C_3N_4 and (B) CSG (4:1).

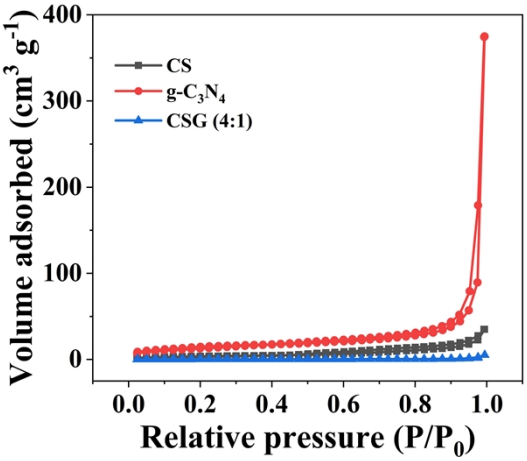

Fig. S3 N_2 adsorption-desorption isotherms of CS, g-C_3N_4 and CSG (4:1) heterojunctions.

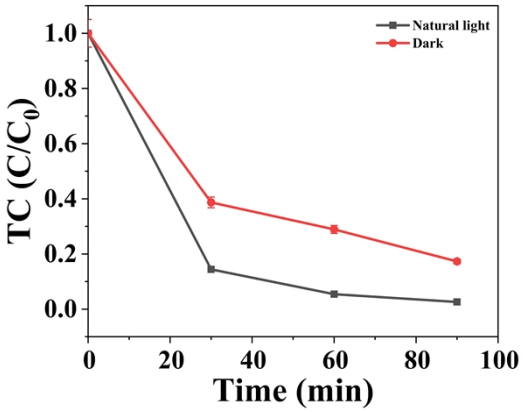

Fig. S4 Comparison of TC removal under light irradiation and dark.

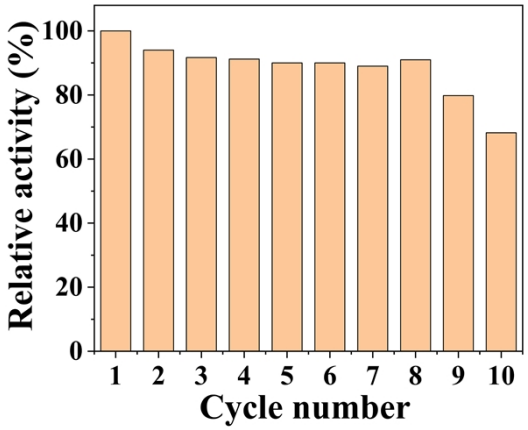

Fig. S5 The influence of reusability for TC abatement.

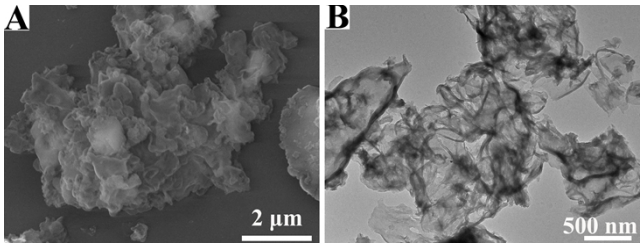

Fig. S6 (A) SEM and (B) TEM iamges of CSG (4:1) after the reaction.

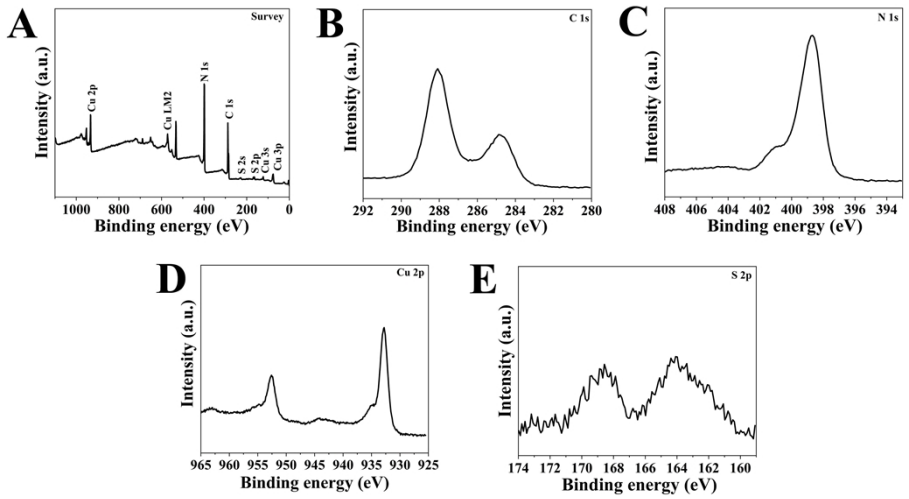

Fig. S7 XPS spectra of CSG (4:1) after the reaction: (A) the survey, the high-resolution spectra of (B) C 1s, (C) N 1s, (D) Cu 2p and (E) S 2p.

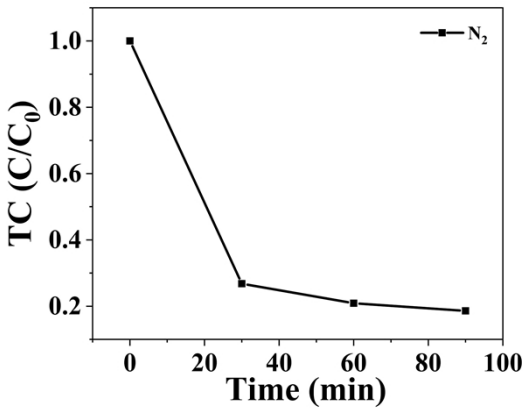

Fig. S8 TC removal curve over CSG (4:1) heterojunctions under N_2 atmosphere.

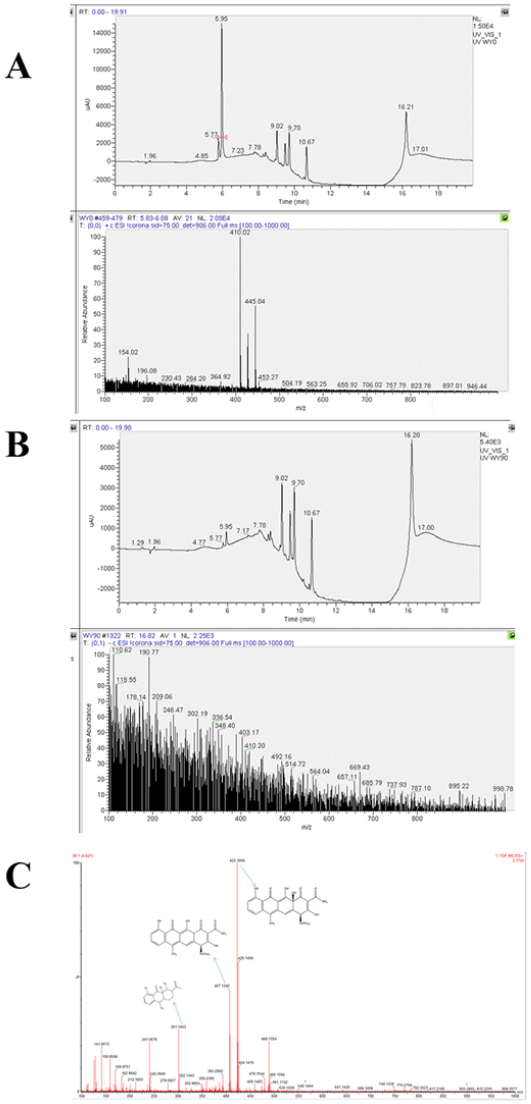

Fig. S9 LC-MS of (A) TC and (B) TC degradation. (C) ESI-MS of TC degradation.

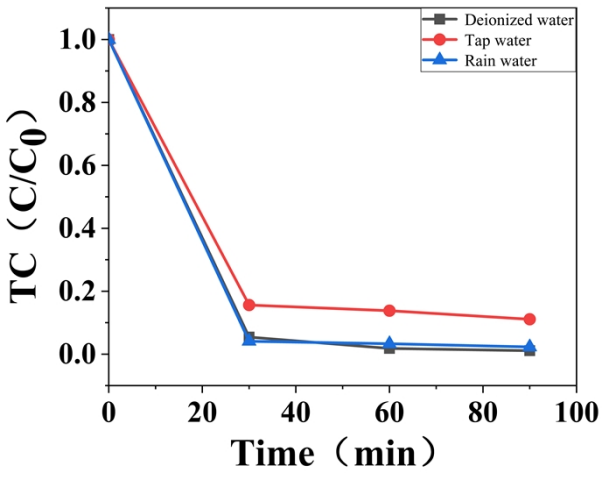

Fig. S10 The effects of water quality on the removal efficiency of TC over CSG (4:1) heterojunctions.