Supporting Information

A Facile Band Alignment of Polymeric Carbon Nitride Isotype Heterojunctions for Enhanced Photocatalytic Tetracycline Degradation

Longbo Jiang [a], Xingzhong Yuan [a]*, Guangming Zeng [a], Jie Liang [a]*, Zhibin Wu [b], Hou Wang [a], Jin Zhang [a], Ting Xiong [a], Hui Li [c]

a. College of Environmental Science and Engineering, Hunan University and Key Laboratory of Environmental Biology and Pollution Control (Hunan University), Ministry of Education, Changsha 410082, P.R. China

b. College of Bioscience and Biotechnology, Hunan Agricultural University, Changsha, Hunan, 410128, PR China

c. Institute of Biological and Environmental Engineering, Hunan Academy of Forestry, Changsha 410004, P.R. China

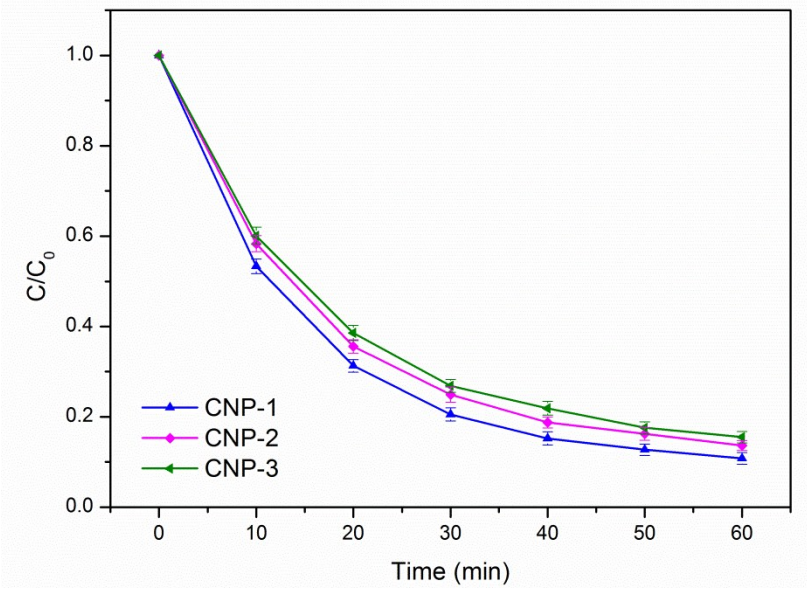


Fig. S1 The photocatalytic TC degradation of PCN/CN composites with error bars.

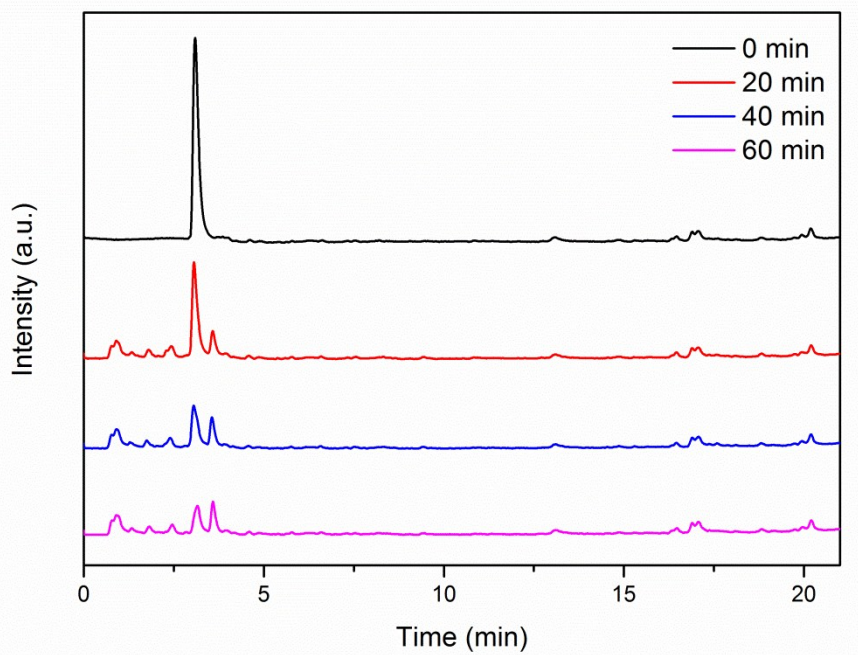


Fig. S2 HPLC spectra of the TC at different reaction time.

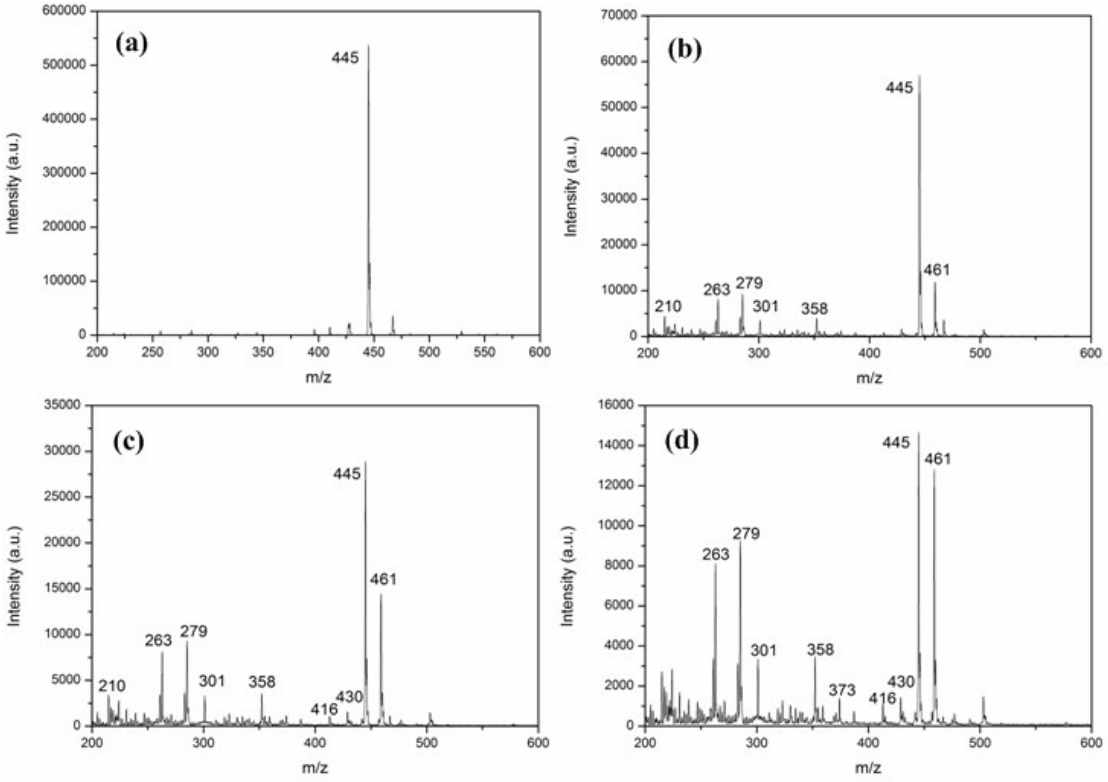
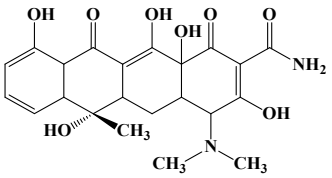
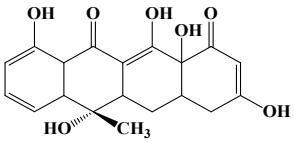
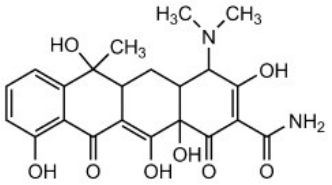
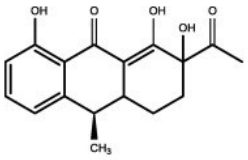
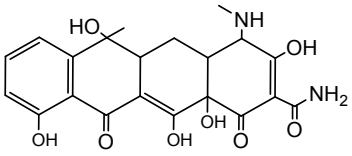
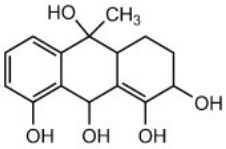
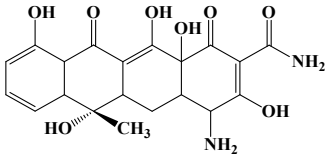
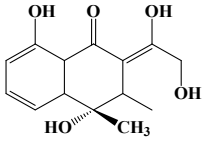
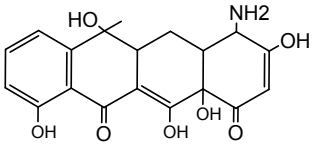
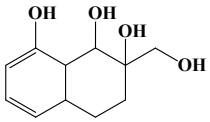


Fig. S3 MS spectra of the TC and possible intermediated at different reaction time of (A) 0 min; (B) 20 min; (C) 40 min; and (D) 60 min.

Table S1. The possible intermediates products of TC degradation.

m/z	Proposed structure	*m/z*	Proposed Structure
445		358	
461		301	
430		279	
416		263	
373		210	

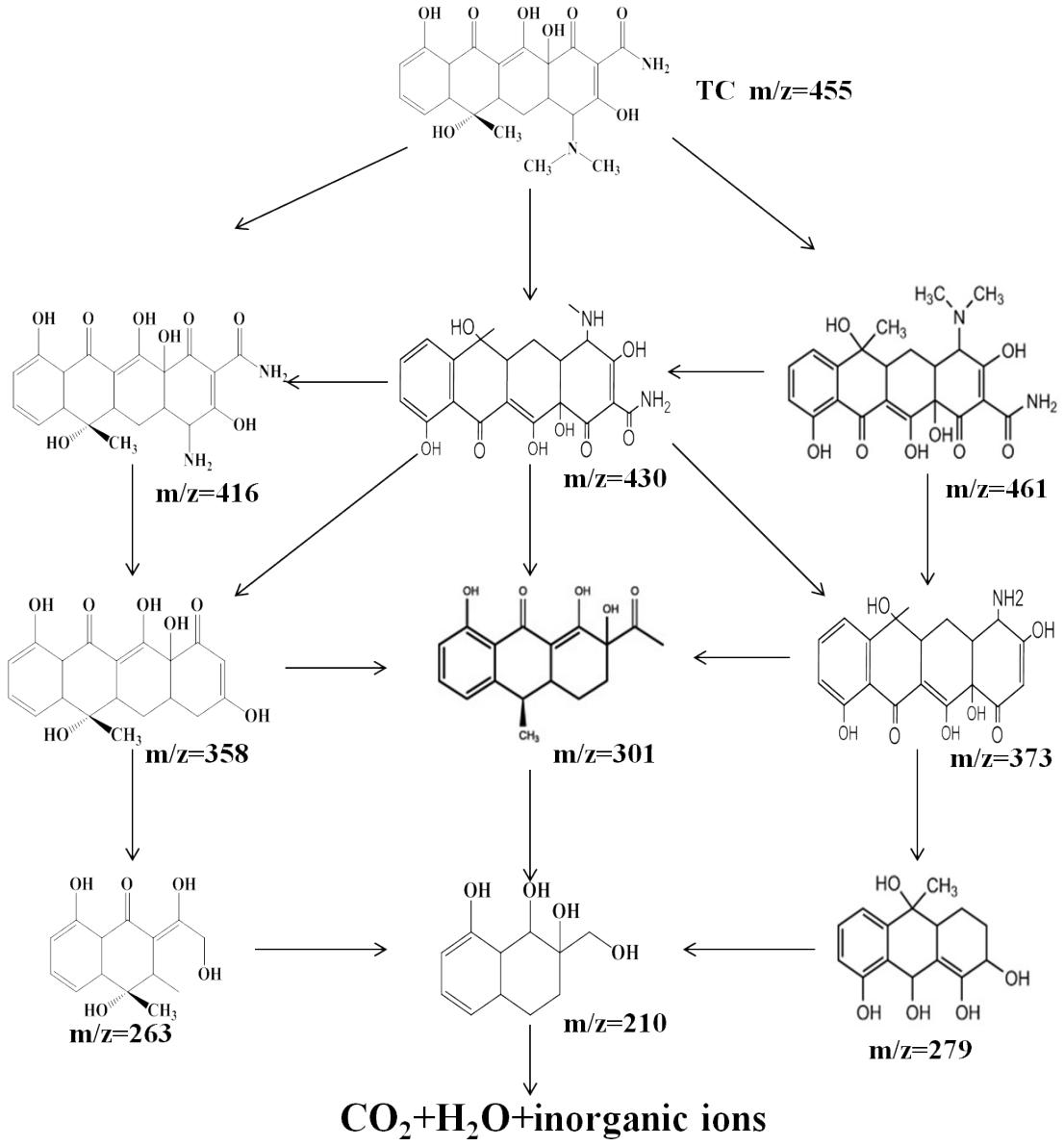


Fig. S4. Proposed photocatalytic degradation pathway of TC by PCN/CN composite.