Supporting Information

1D/2D Bi_2O_3/g-C_3N_4 step-scheme photocatalyst to active peroxymonosulfate for removal of tetracycline hydrochloride: insight into the mechanism, reactive sites, degradation pathway and ecotoxicity

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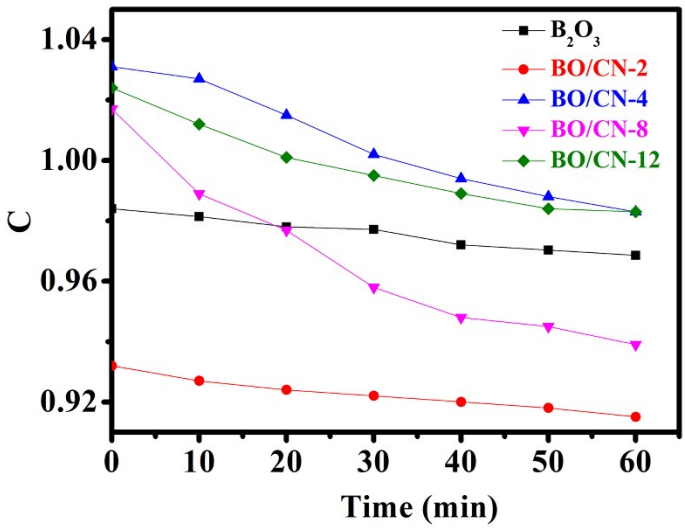

Fig. 1 The photocatalytic degradation of TC with Bi_2O_3 and BO/CN ([photocatalyst] = 0.5 g/L, [TC] = 40 mg/L).

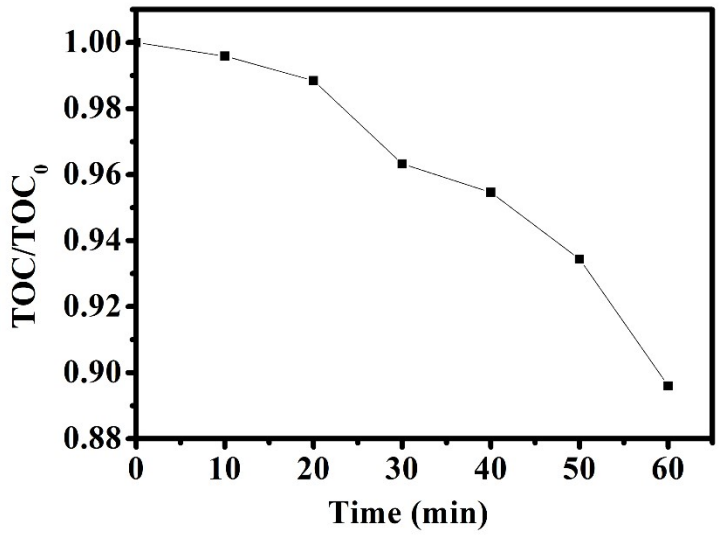

Fig. 2 TOC removal plots of the BO/CN-8 under visible light irradiation ([photocatalyst] = 0.5 g/L, [TC] = 40 mg/L).

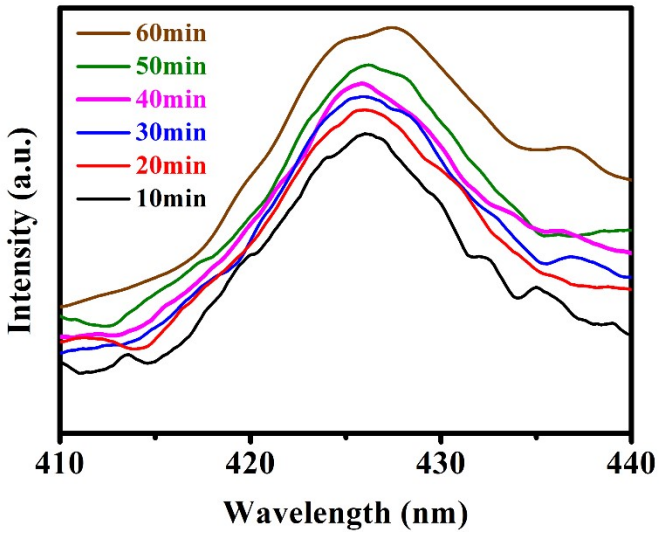

Fig. 3 The fluorescence spectra changes (BO/CN-8 suspension containing 4 mM disodium terephthalate after various irradiation periods).

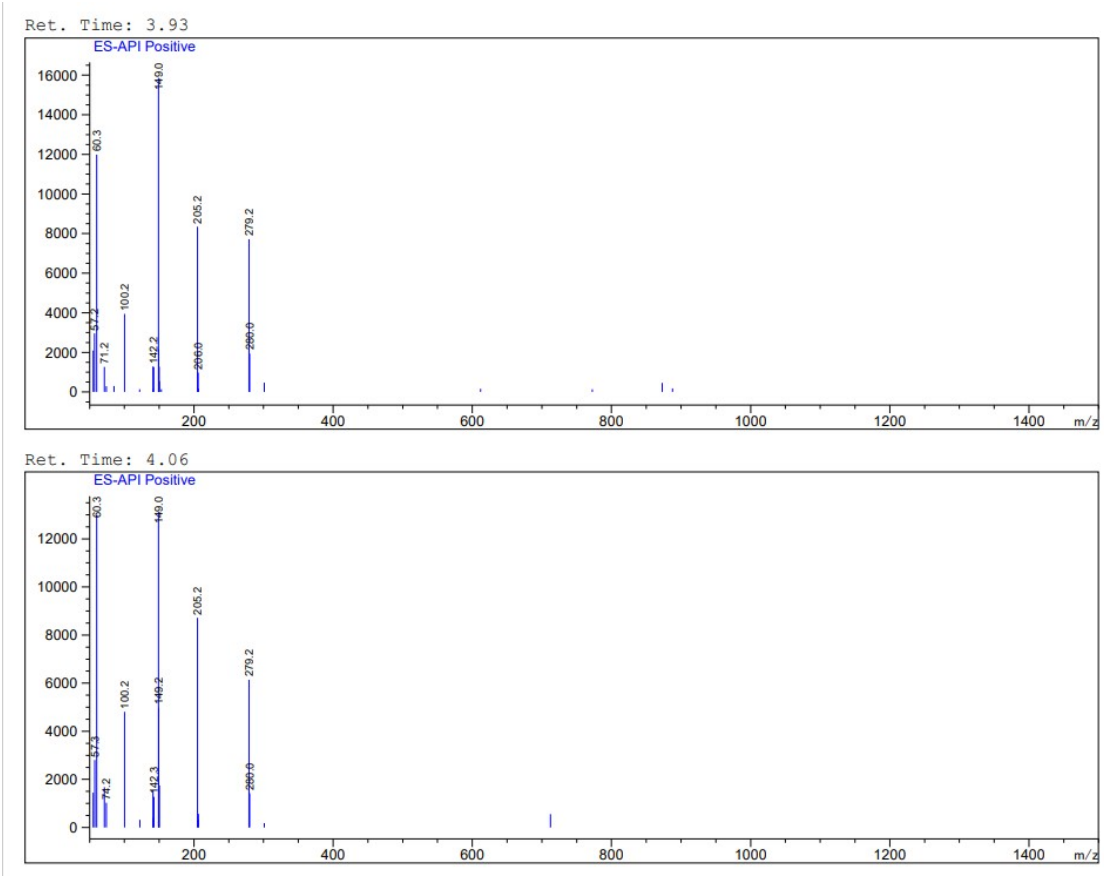

Fig. 4 UPLC–MS results of TC degradation products [BO/CN-8: 0.5 g L^{-1}; PMS: 2 mM; TC: 40 mg L^{-1}].

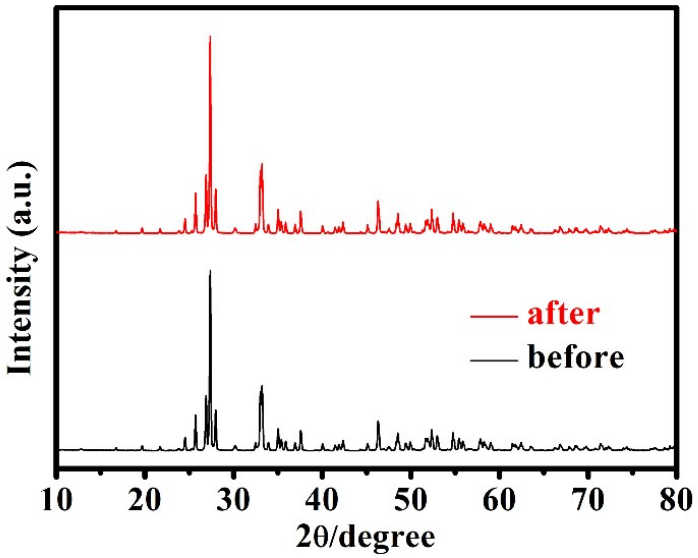

Fig. 5 XRD pattern of BO/CN-8 before and after reaction.

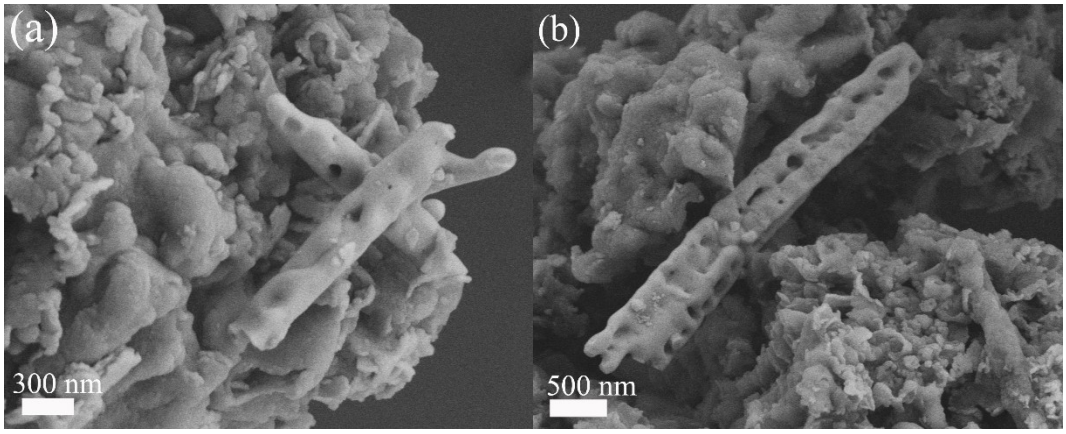

Fig. 6 SEM images of BO/CN-8 before and after reaction.

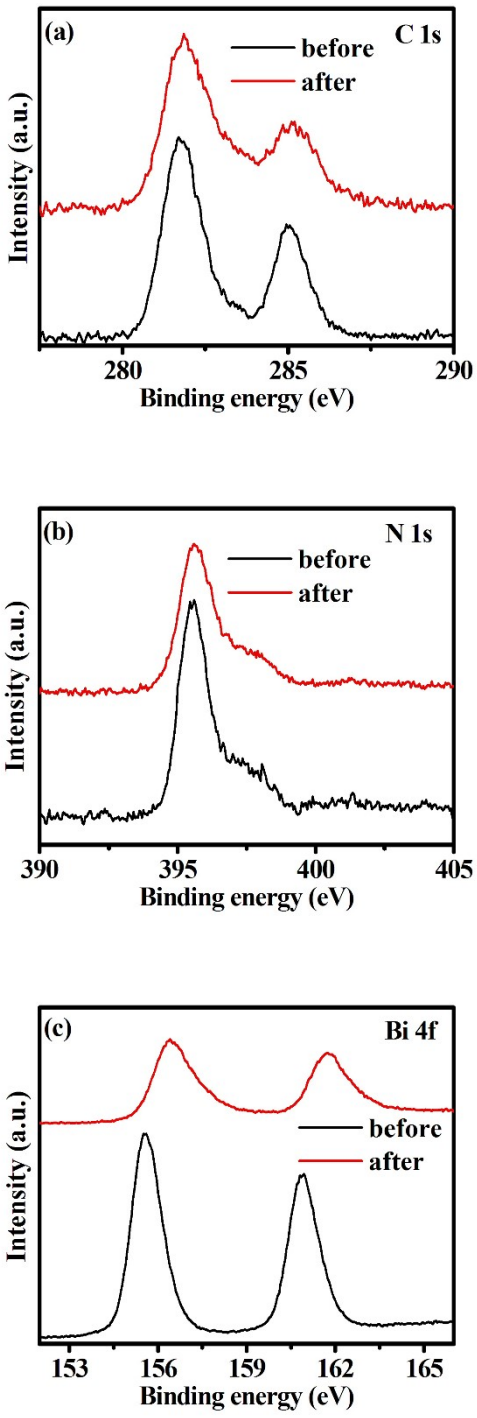

Fig. 7 XPS spectra of BO/CN-8 before and after reaction.