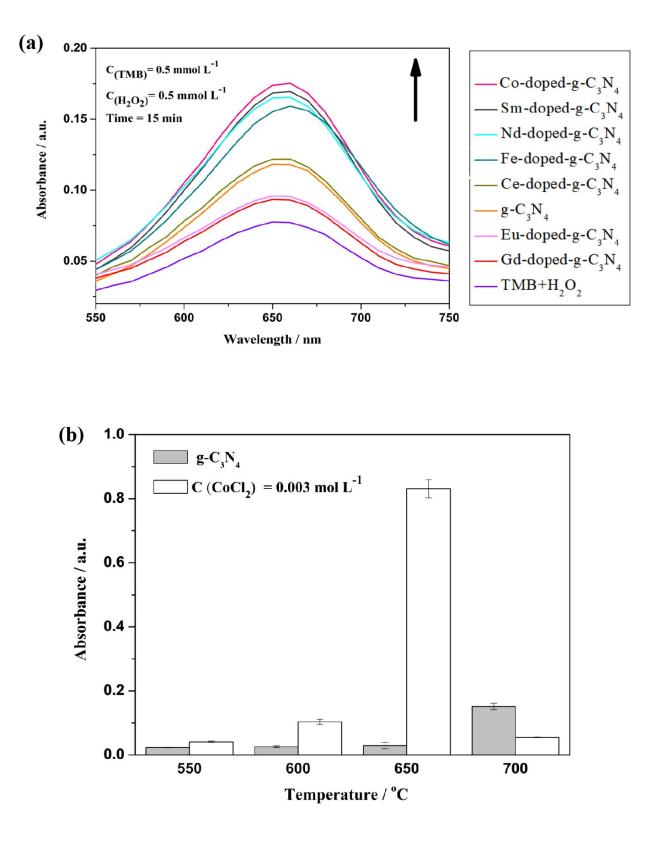
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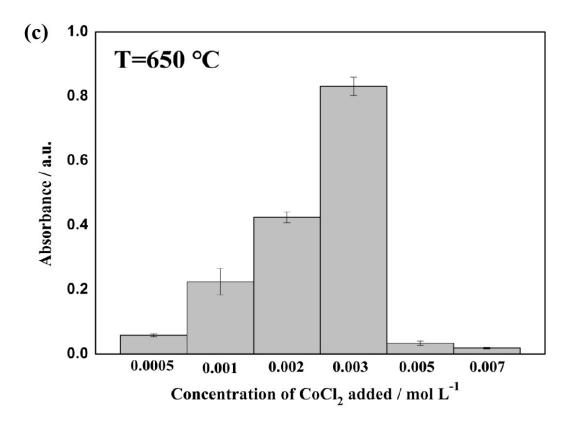
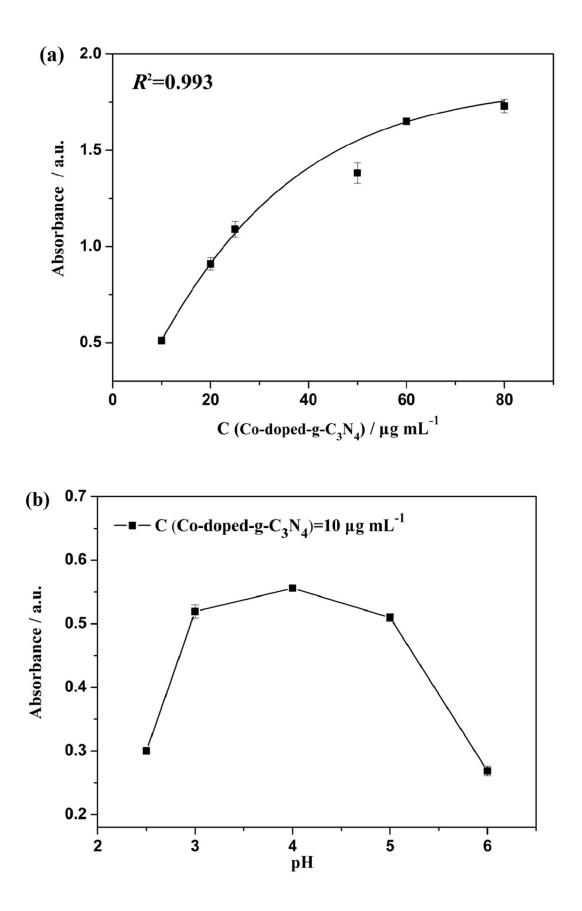


Fig. S1 Catalytic activities of $g-C_3N_4$ doped with different elements (a), calcinations temperature (b) and different doping concentrations of $CoCl_2$ (c).



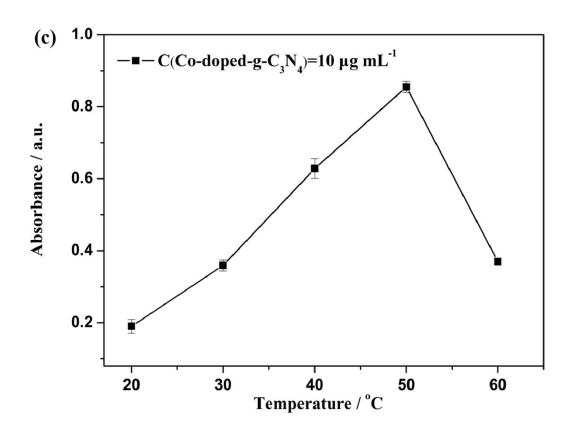


Fig. S2 The concentrations of Co-doped-g- C_3N_4 (a), pH values (b) and solution temperature (c) on the catalytic reaction of TMB and H_2O_2 .

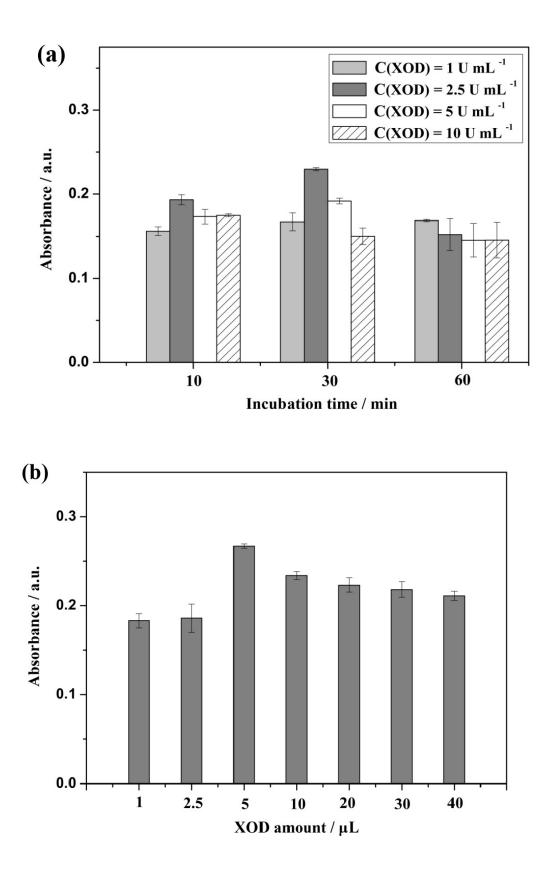
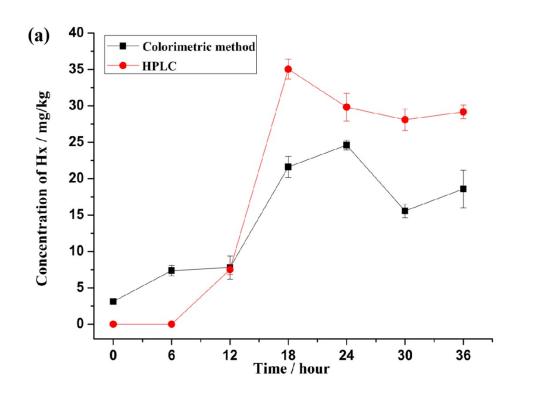
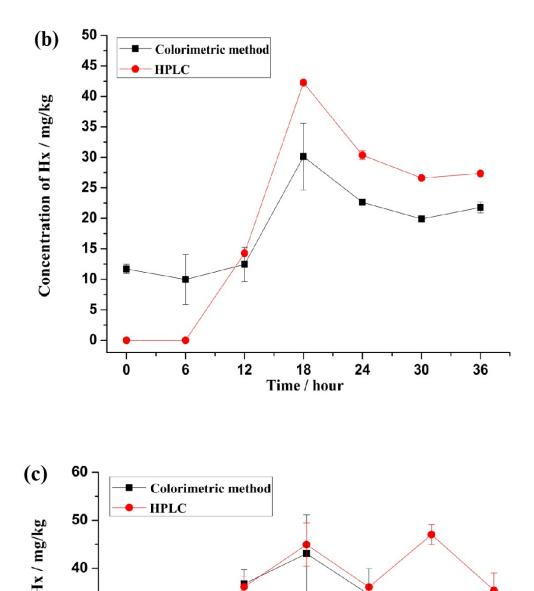


Fig. S3 Effects of incubation time (a) and amounts (b) of xanthine oxidase (XOD) on the decomposition of Hx. (the concentrations of TMB, Co-doped-g- C_3N_4 and Hx were 8 mmol L⁻¹, 60 µg mL⁻¹ and 70 µmol L⁻¹, respectively)





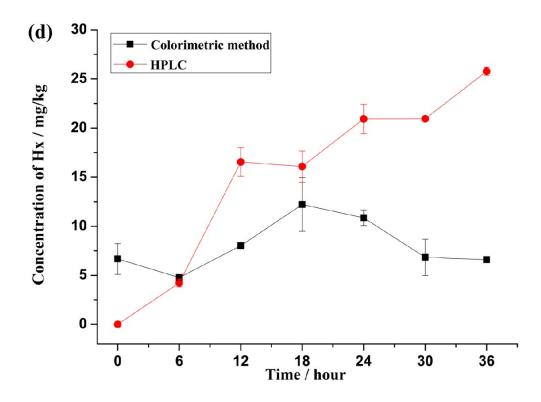


Fig. S4 Hx content in aquatic products (grass carp (a), sea bass (b), prawn (c) and clam (d)) measured with the colorimetric method and HPLC method.