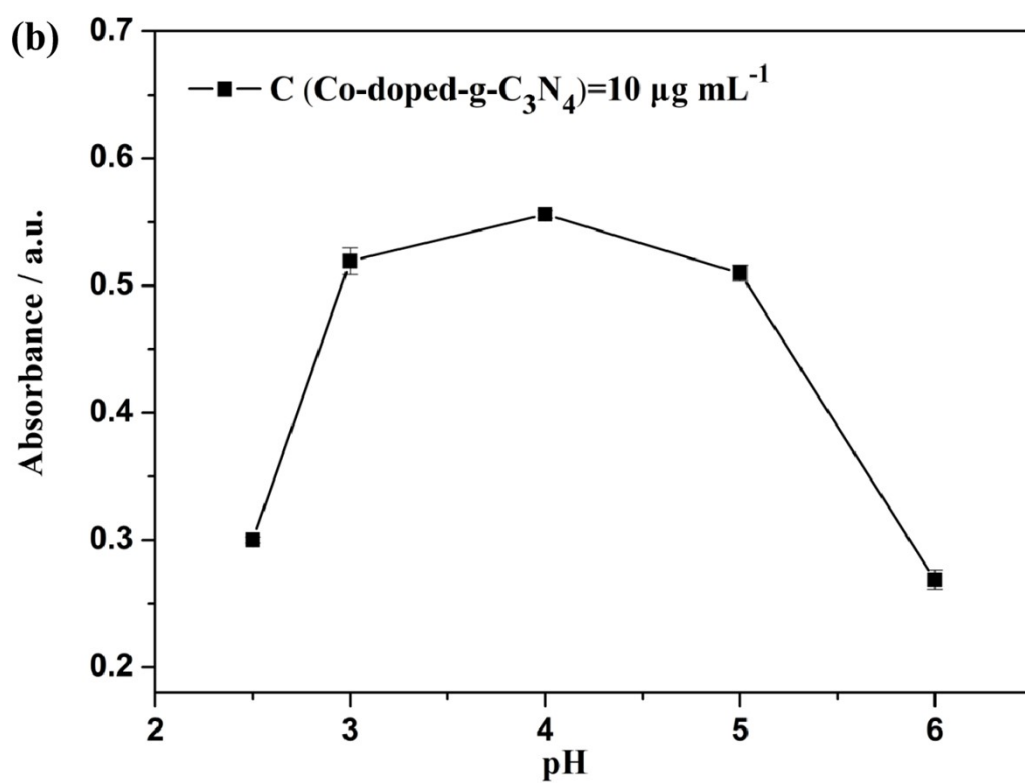
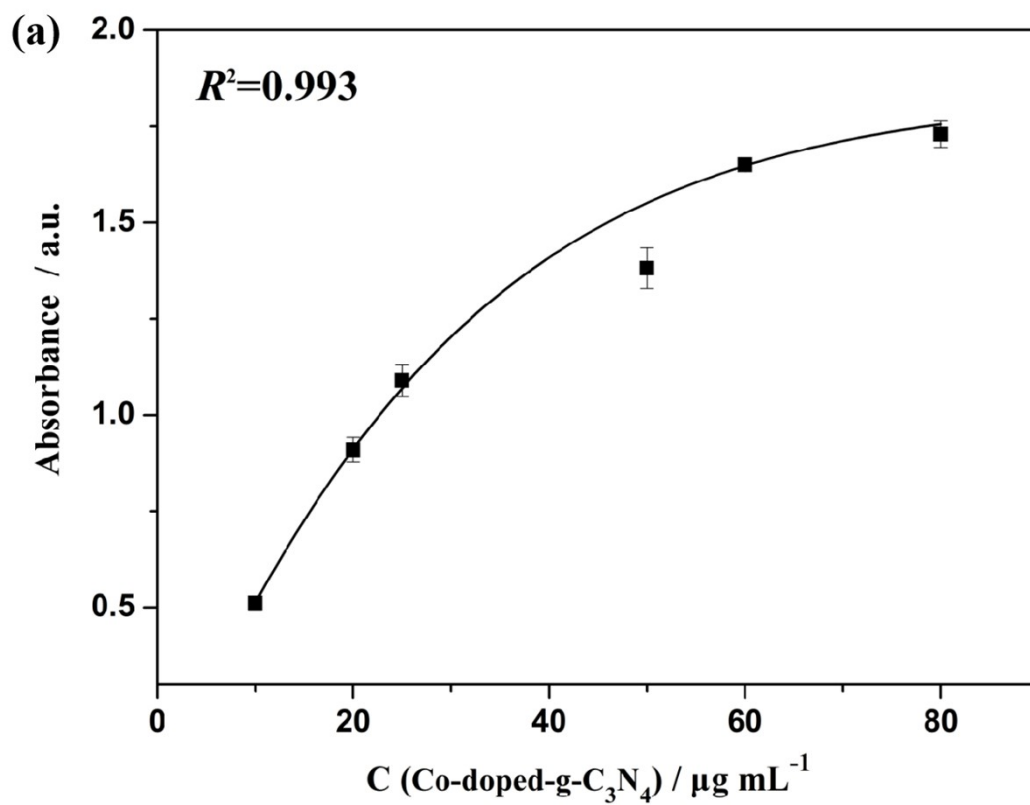


Fig. S1 Catalytic activities of g-C₃N₄ doped with different elements (a), calcinations temperature (b) and different doping concentrations of CoCl₂ (c).



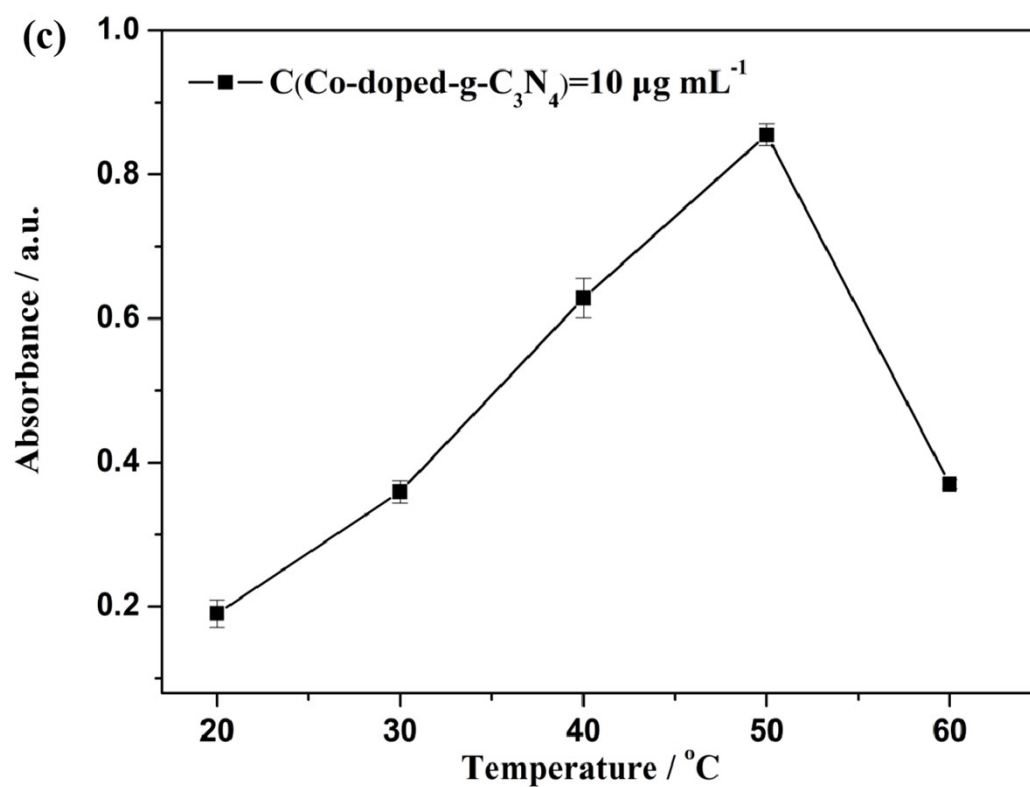


Fig. S2 The concentrations of Co-doped-g-C₃N₄ (a), pH values (b) and solution temperature (c) on the catalytic reaction of TMB and H₂O₂.

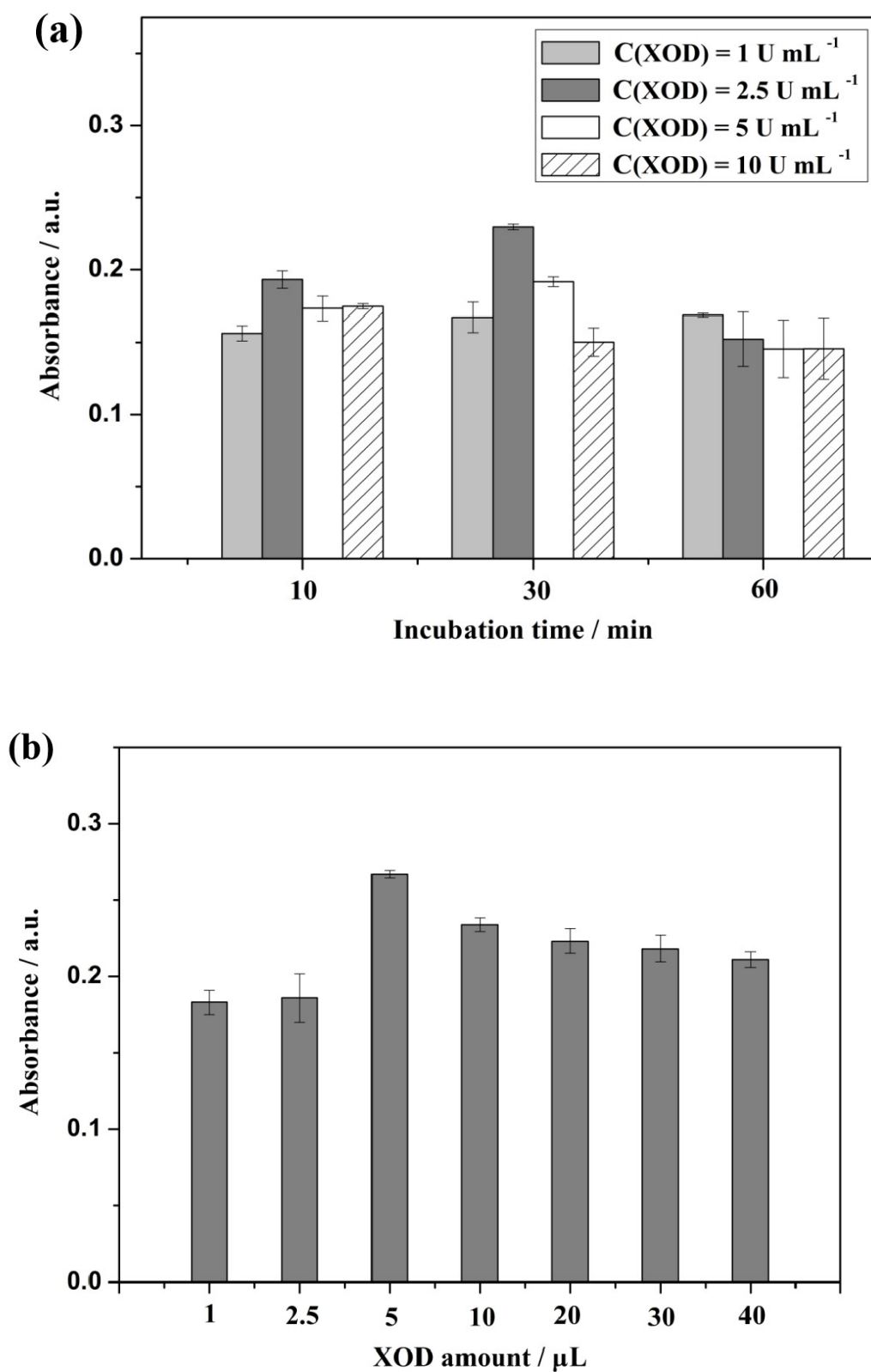
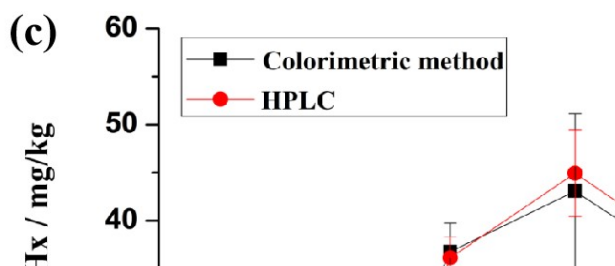
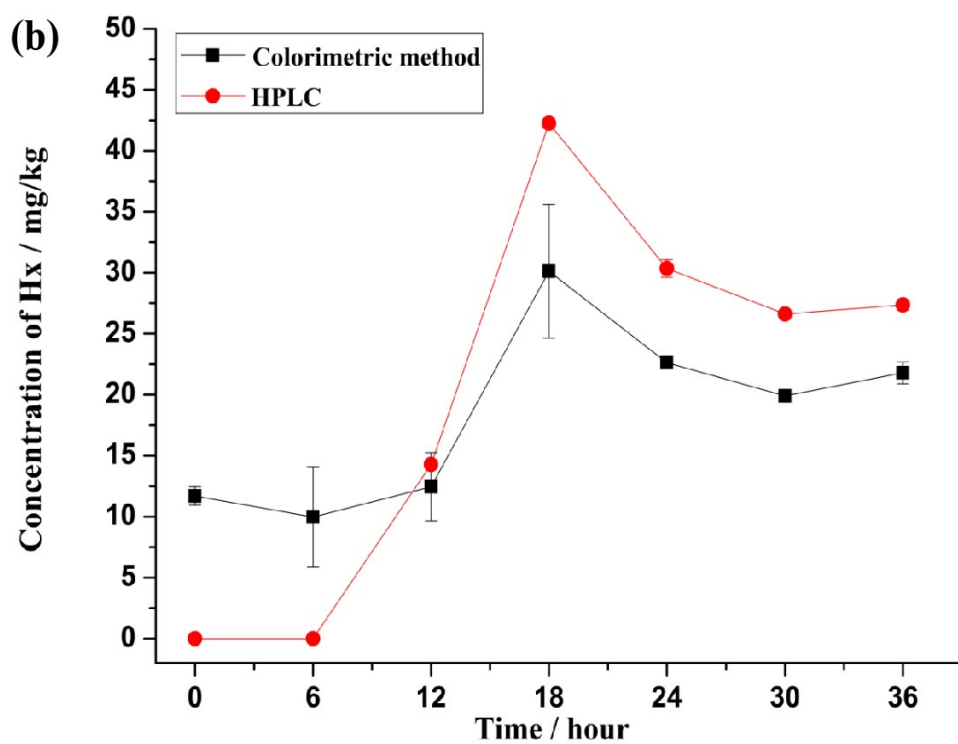
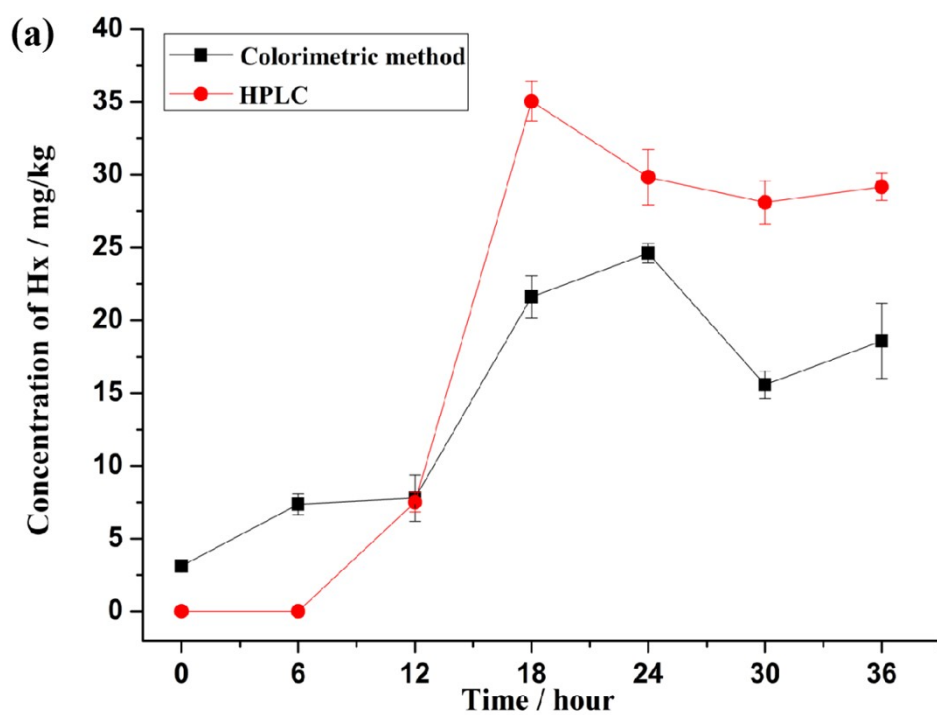


Fig. S3 Effects of incubation time (a) and amounts (b) of xanthine oxidase (XOD) on the decomposition of Hx. (the concentrations of TMB, Co-doped-g-C₃N₄ and Hx were 8 mmol L⁻¹, 60 μg mL⁻¹ and 70 μmol L⁻¹, respectively)



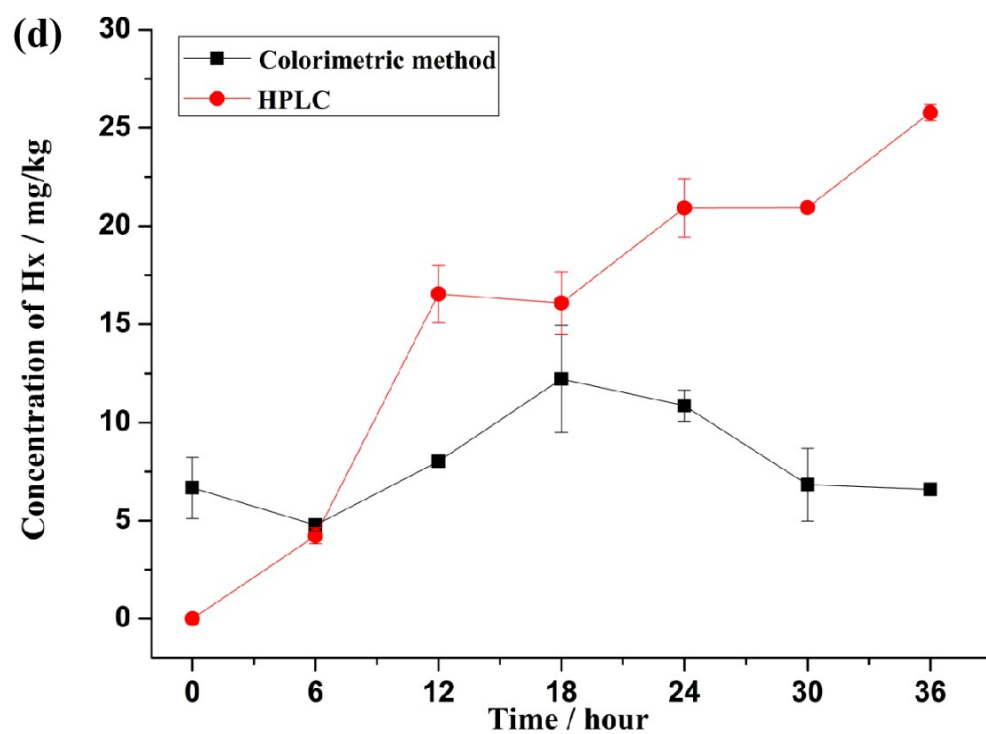


Fig. S4 Hx content in aquatic products (grass carp (a), sea bass (b), prawn (c) and clam (d)) measured with the colorimetric method and HPLC method.