

Supplementary material for

A fluorescence visual detection for glyphosine based on biomass carbon quantum dots paper-based sensor

Xiaoyan Wang^a, Yiju Lv^a, Xiangfei Kong^a,

Zhiyuan Ding^a, Xia Cheng^a, Zheng Liu^{a,*}, Guo-Cheng Han^{b,1*}

^a College of Chemical and Biological Engineering, Guilin University of Technology, Guangxi Key Laboratory of Electrochemical and Magneto-chemical Functional Materials, Guilin, 541004, PR China

^b School of Life and Environmental Sciences, Guilin University of Electronic Technology, Guilin, 541004, PR China

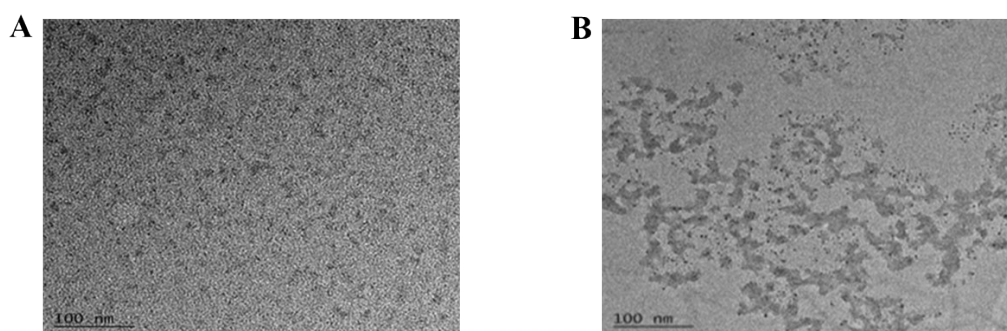


Fig. S1. TEM images of N-CQDs (A) and N-CQDs/Fe³⁺ (B).

^{1*} Corresponding author. E-mail address: lisa4.6@163.com (Z. Liu), hanc1981@163.com (G.-C. Han)

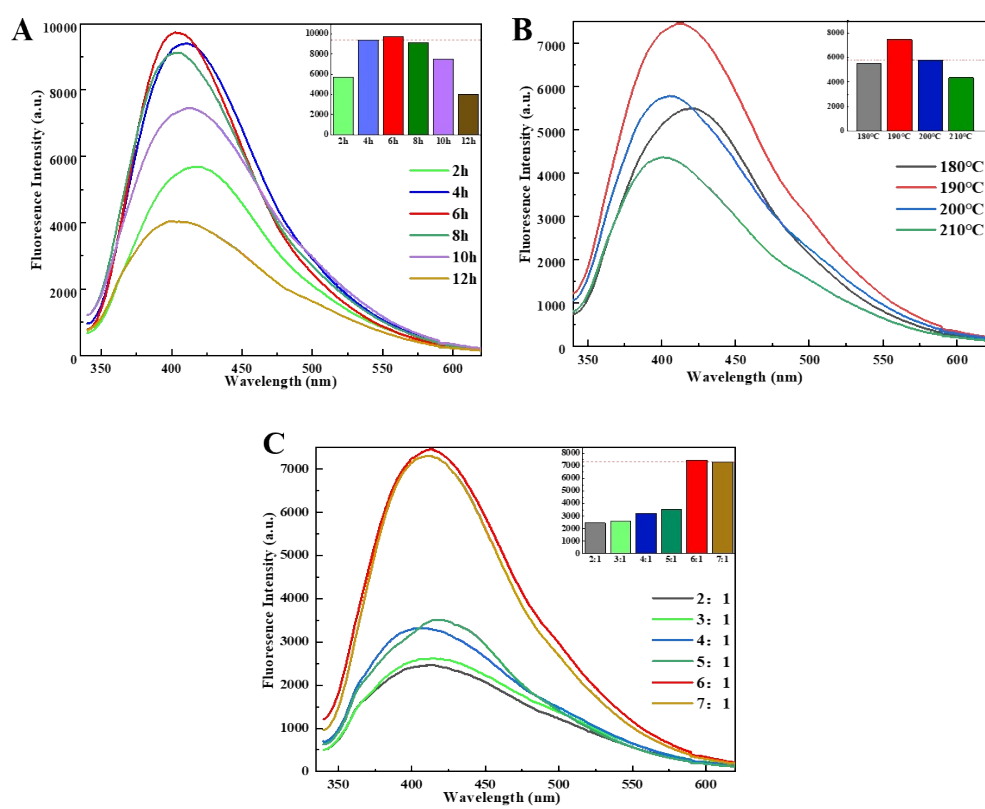


Fig. S2. (A) Optimization of the ratio (tea shell powder: melamine), (B) Optimization of reaction temperature, (C) Optimization of reaction time.

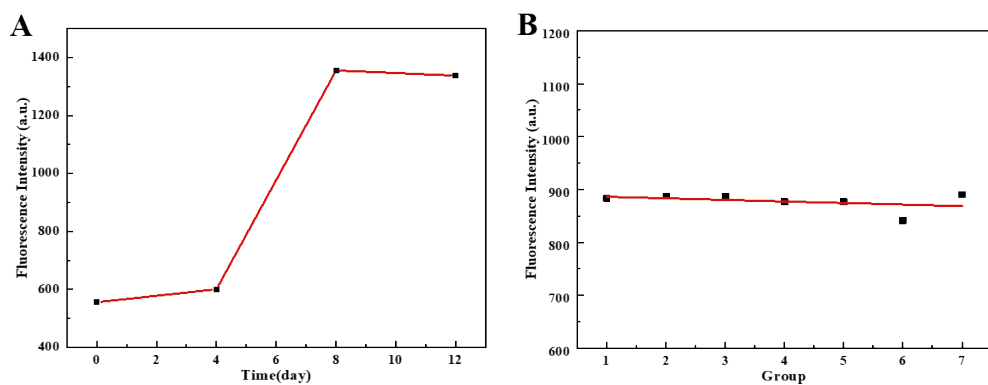


Fig. S3. The stability (A) and the precision (B) of the fluorescent probe in the absence and presence of interfering substance).