

Electronic Supplementary Information

A facile fluorescence assay for rapid and sensitive detection of uric acid based on carbon dots and MnO₂ nanosheets

Jie Yang, Zhongming Huang, Yalei Hu, Jia Ge*, Jianjun Li* and Zhaohui Li*

*College of Chemistry and Molecular Engineering, Zhengzhou University, Zhengzhou
450001, P.R. China*

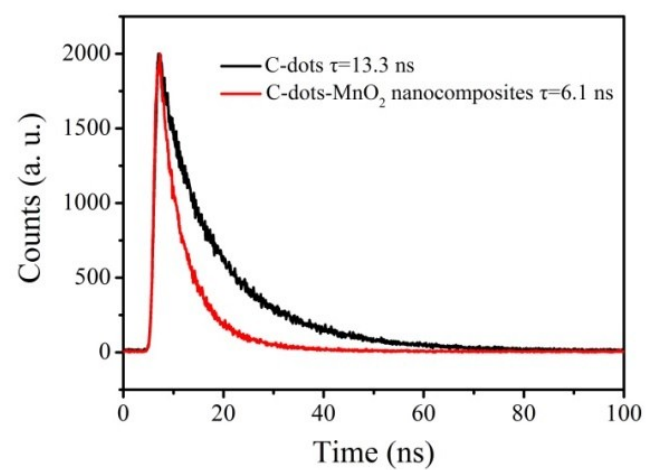


Fig. S1. The fluorescence lifetime of C-dots and C-dots-MnO₂ nanocomposites.

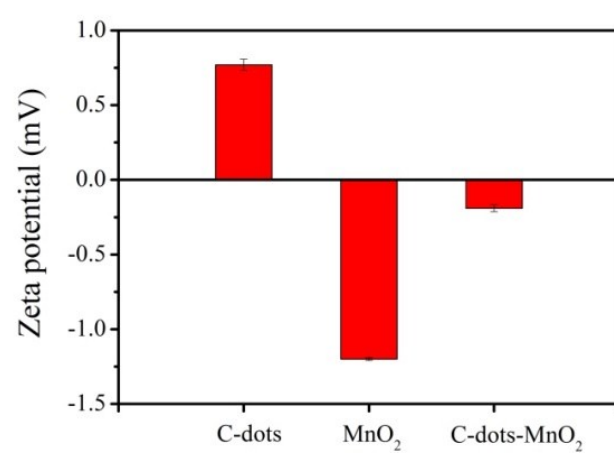


Fig. S2. Zeta potential of C-dots, MnO₂ nanosheets and C-dots-MnO₂ nanocomposites.

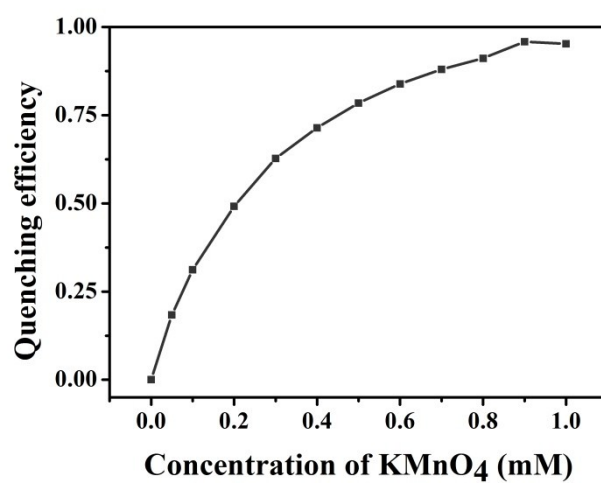


Fig. S3. The fluorescence quenching rate at the different concentration of KMnO_4 .

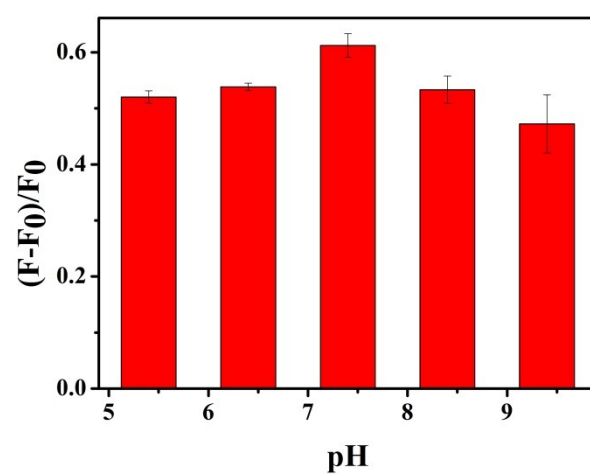


Fig. S4. Optimization of the reaction pH (UA: 0.1 mM).

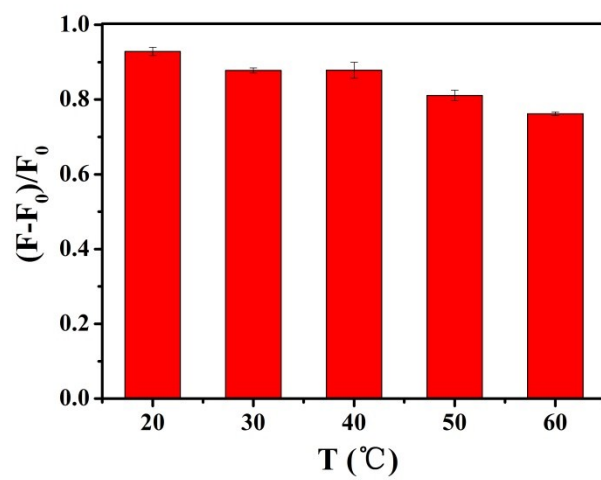


Fig. S5. Optimization of the reaction temperature (UA: 0.1 mM).

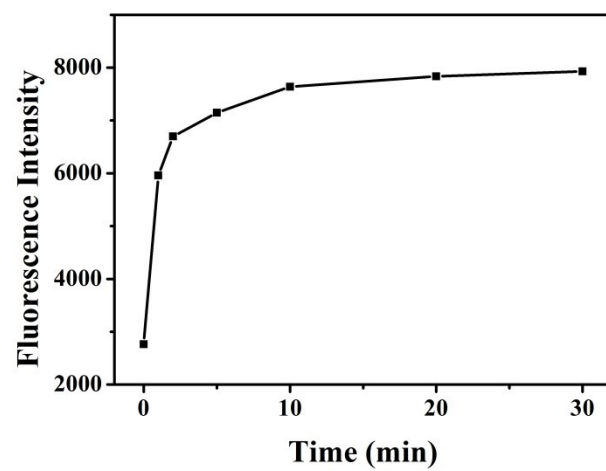


Fig. S6. Optimization of the reaction time (UA: 0.1 mM).