Microwave synthesis of carbon dots with multi-response using

denatured proteins as carbon source

Xue Liu, Tianze Li, Yu Hou, Qiuhua Wu, Jie Yi and Guolin Zhang* Liaoning Province Key Laboratory for Green Synthesis and Preparative Chemistry of Advanced Materials, College of Chemistry, Liaoning University, Shenyang, 110036, (P. R. China), Fax: (+86) 24-6220-2380, E-mail: glzhang@lnu.edu.cn

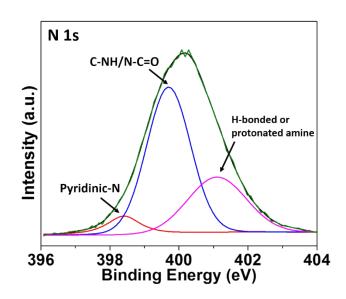


Fig. S1 High-resolution N 1s XPS spectra of CDs.

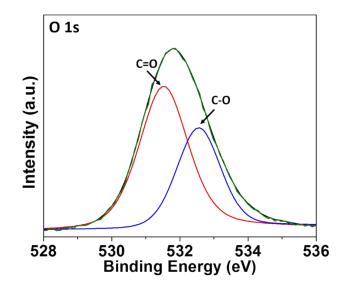


Fig. S2 High-resolution O 1s XPS spectra of CDs.

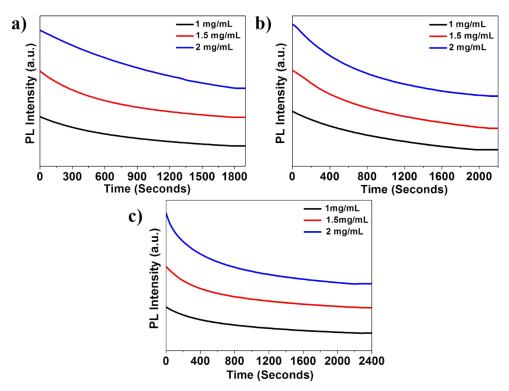


Fig. S3 Time-dependent fluorescence intensity of BSA-CDs, pepsin-CDs and lipase-CDs with various concentrations in the presence of corresponding sensitive metal ions. a) BSA-CDs with 10 μ M Ag⁺; b) pepsin-CDs with 10 μ M Cu²⁺; c) lipase-CDs with 10 μ M Ni²⁺. (excitation wavelength: 360 nm; emission wavelength: 410 nm)