

Supporting Information for

A novel method for preparing solvent-free, microwave-assistant and nitrogen-doped carbon dots as fluorescent probes for chromium(VI) detection and bio-imaging

Meng Cao^{abc}, Yong Li^{abc}, Yunze Zhao^{abc}, Chongyang Shen^{abc}, Hongyan Zhang^d and Yuanfang Huang^{abc*}

a College of Resources and Environment Sciences, China Agricultural University, Beijing 100193, China

b Key Laboratory of Agricultural Land Quality, Ministry of Natural Resources, Beijing 100193, China

c Key Laboratory of Arable Land Conservation (North China), Ministry of Agriculture and Rural Affairs, Beijing 100193, China

d College of Science, China Agricultural University, Beijing 100193, China

* Corresponding author

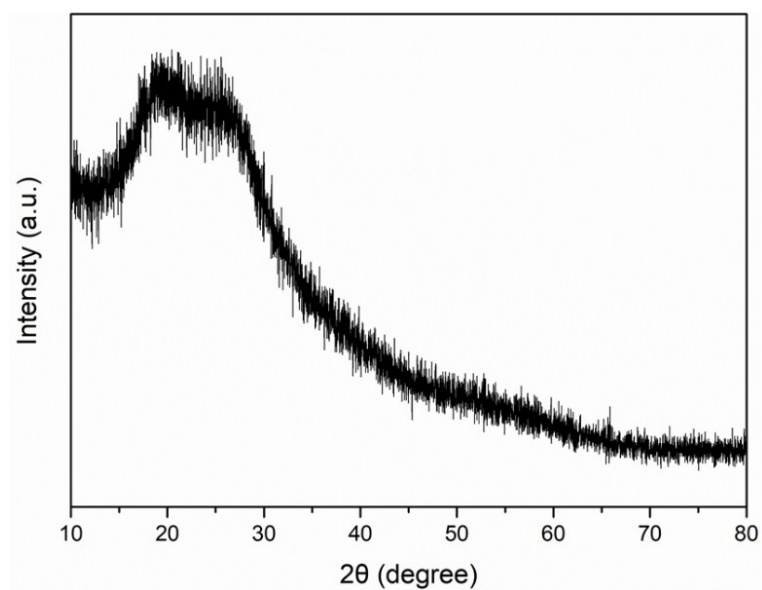


Figure S1. XRD spectrum of N-CDs.

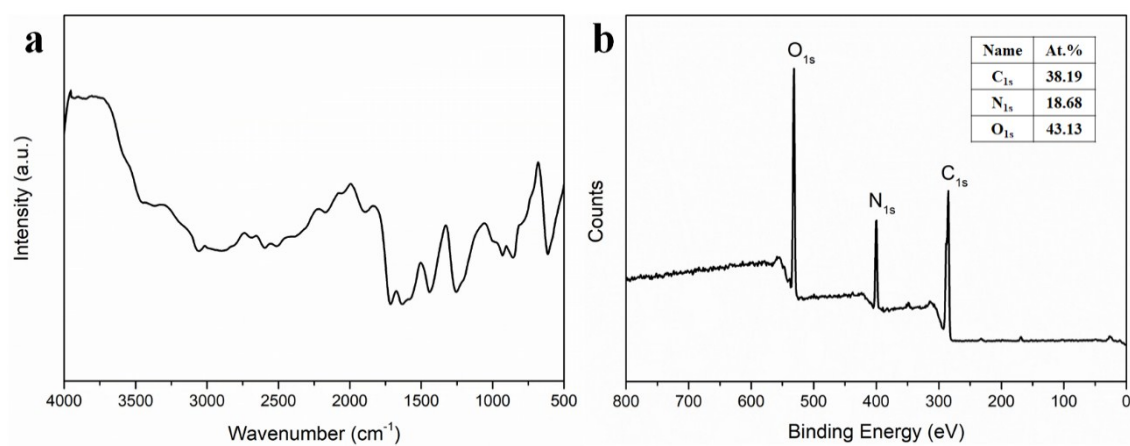


Figure S2. (a) FTIR and (b) XPS spectra of N-CDs.

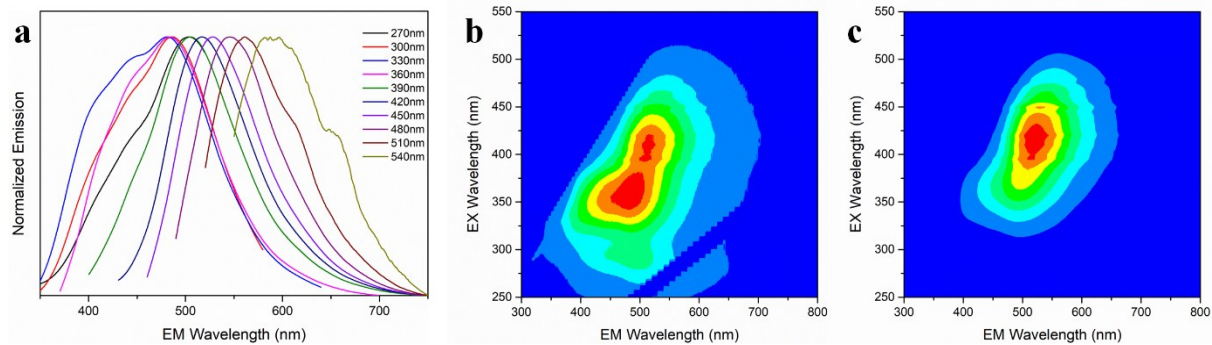


Figure S3. (a) Normalized emission spectra of N-CDs corresponding to Figure 3b. 3D fluorescent spectrogram of N-CDs at the concentration of (b) 0.01 mg mL⁻¹ and (c) 1 mg mL⁻¹.

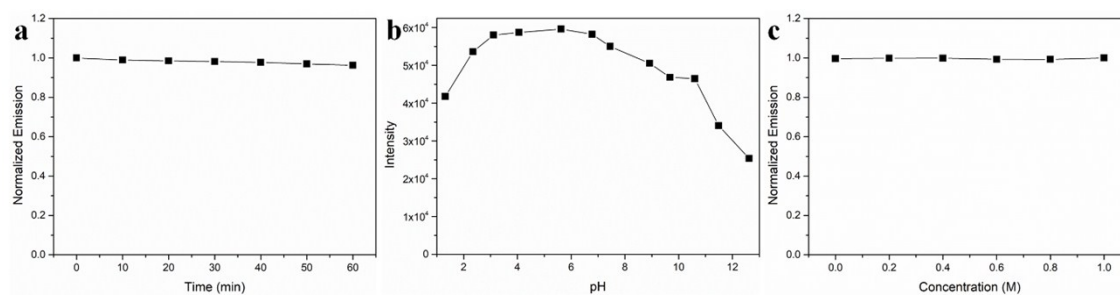


Figure S4. The emission changes of N-CDs under (a) 365 nm UV irradiation, (b) different pH, and (c) different concentration of NaCl.