Electronic Supplementary Information

Facile Synthesis and Optical Properties of Nitrogen-doped **Carbon Dots**

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Supporting figures.



S1. Photoimages of the NCDs aqueous solution. NC1, NC2, NC3 and NC4 represent the different reaction temperature of 150 °C, 165 °C, 180 °C and 200 °C, respectively.

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S2. Photoimages of the synthesized NCDs solution in ethanol (right) and Dimethyl



Formamide (DMF) (left).

S3 High-resolution C 1s (a) and N 1s (b) peaks of Glutamic acid (Glu).



S4 XPS spectra of NC1, NC2, NC3 and NC4 (a), and the corresponding N 1s peaks

deducted from the baseline (b).



S5 The formation process of the pyrrolic-like N.



S6 FT-IR spectrum of Glu.



S7 TEM images of NC4.



S8 The emission spectra under 365 nm and 980 nm excitation.



S9 The CL emission spectrum of NCDs under different accelerating voltage

(excitation voltage from 5.0 to 1.0 kV, filament current = 50 mA)