Electronic Supplementary Material (ESI) for Analytical Methods.

In-situ bifunctionalized carbon dots with boronic acid and amino groups for ultrasensitive dopamine detection

Electronic Supplementary Information (ESI)

1. UV-vis absorption and FL spectra of B-CDs

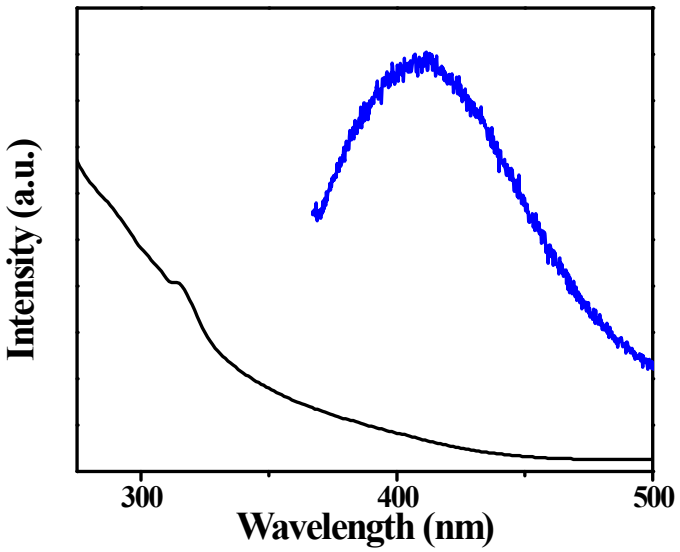

Fig. S1 UV-vis absorption (black line) and fluorescence emission spectra (blue line) of B-CDs.

2. FT-IR spectra of N-CDs

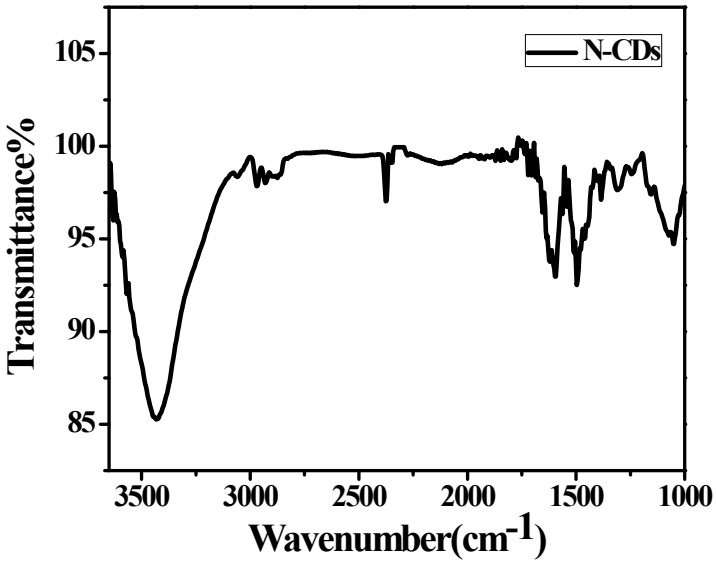

Fig. S2 FT-IR spectra of N-CDs

3. UV-vis absorption and FL spectra of N-CDs

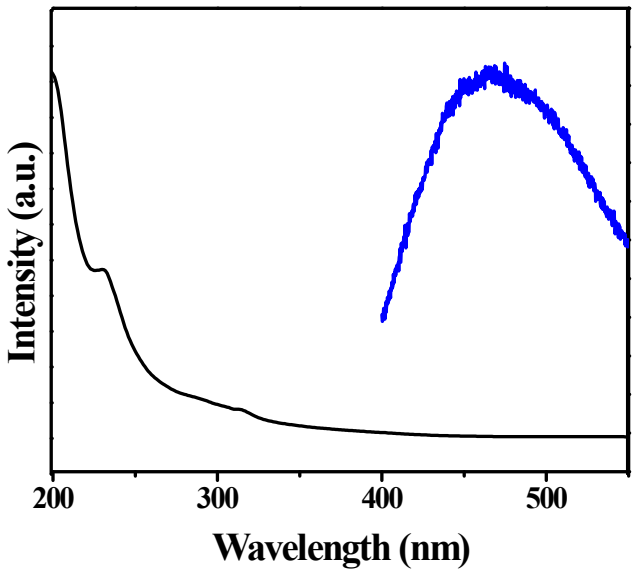

Fig. S3 UV-vis absorption (black line) and fluorescence emission spectra (blue line) of N-CDs.

4. UV-vis absorption and FL spectra of m-CDs

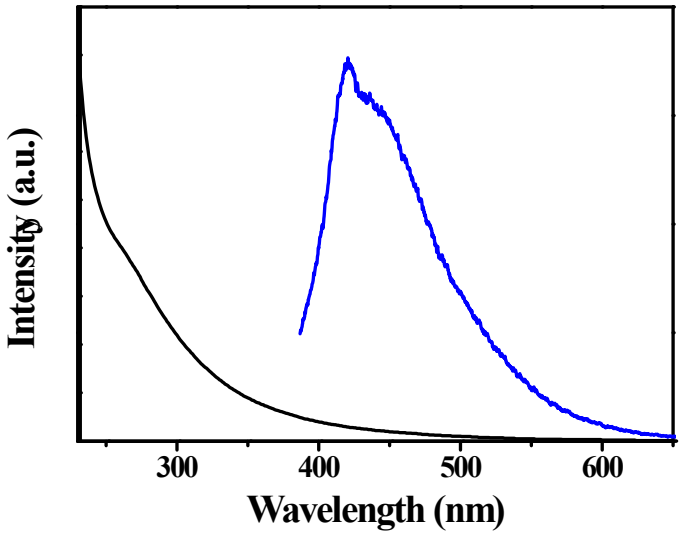

Fig. S4 UV-vis absorption (black line) and fluorescence emission spectra (blue line) of m-CDs.

5. FL emission spectra of m-CDs in the absence and presence of 1 μM DA.

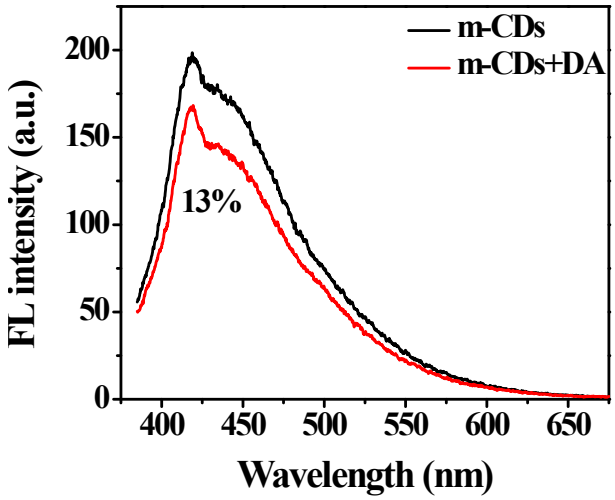

Fig. S5 FL emission spectra of m-CDs in the absence and presence of 1 μM DA

6. The overlap between UV-vis absorption of QY measurement of B-N-CDs and fluorescence emission of DA

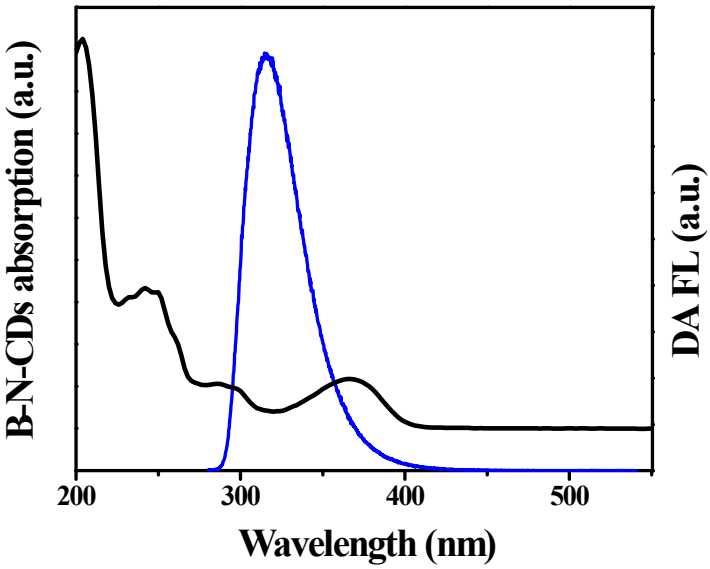

Fig. S6 UV-vis absorption of B-N-CDs (black line) and FL emission of DA (blue line).