

## Supplementary Material

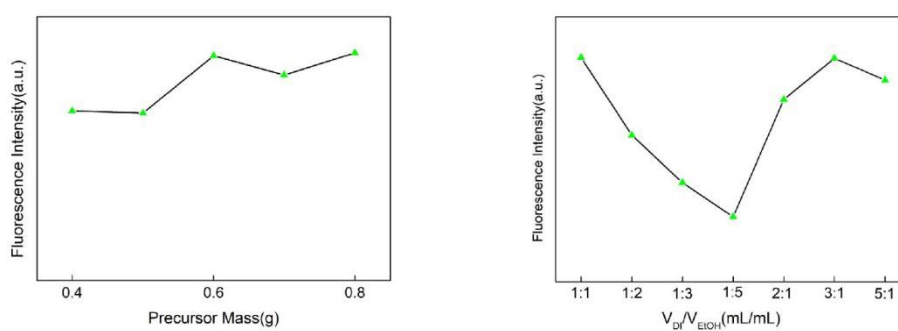
*for*

### Preparation of N/S Doped Carbon Dots and Their Applications in Nitrite Detection

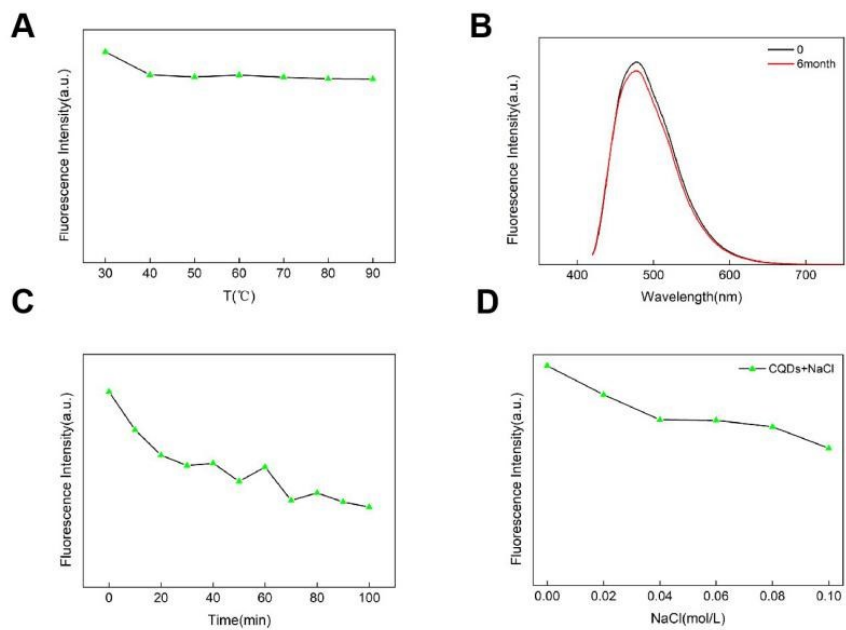
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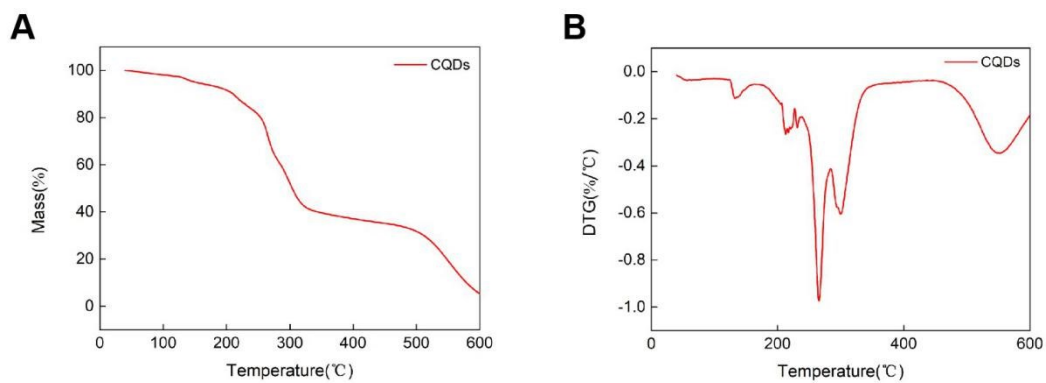
#### 1 Results and Discussion



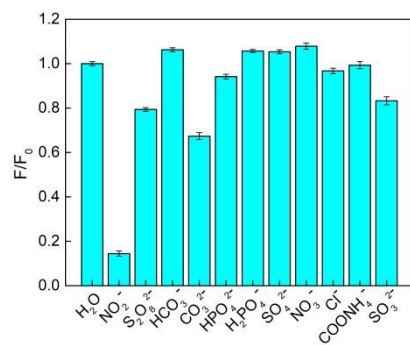
**Figure S1.** Fluorescence intensity of CDs with different masses of reactants, various ratios of reactant solvents



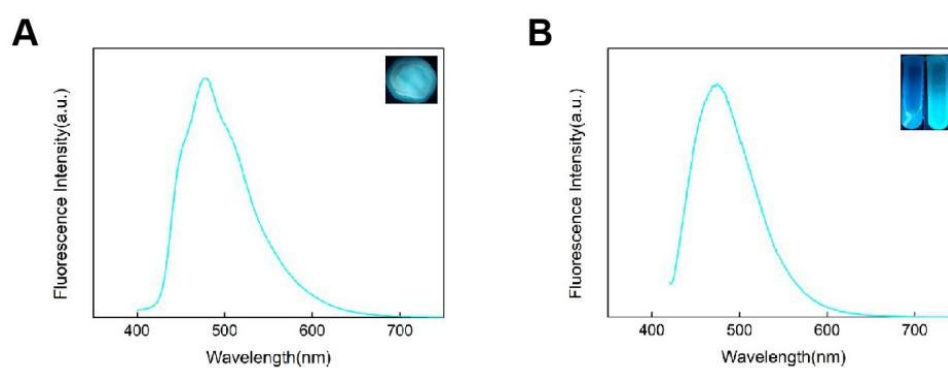
**Figure S2.** Fluorescence intensity of CDs towards different temperature (A), time (B), irradiation time (C), concentrations of NaCl (D)



**Figure S3.** Thermogravimetric curve (TG) and differential thermogravimetric curve (DTG) of CDs



**Figure S4.** Selectivity of CDs detecting NO<sub>2</sub><sup>-</sup>



**Figure S5.** (A) Fluorescence intensity of methylcellulose/CDs film (excitation wavelength 400nm) and photo; (B) Fluorescence intensity of methylcellulose/CDs film after dissolution in water (excitation wavelength 400nm) and Photo of the film before and after dissolution.