

The exploitation of thermophiles resources in hot springs: Fluorescent carbon dots derived by *Ureibacillus thermosphaericus* for multicolour cellular imaging and selectivity detection of heavy metal

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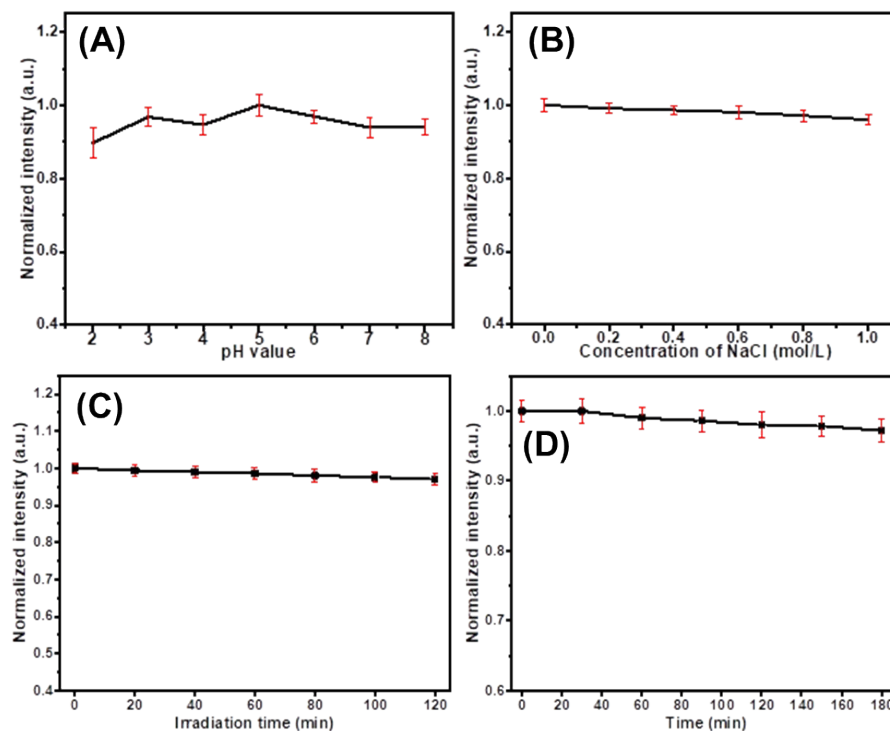


Fig. S1 (A) The fluorescence intensity of CDs-HS18 varying with the sample pH value from 2 to 8. (B) Normalized fluorescence intensity of CDs-HS18 in different NaCl concentrations ranging from 0 to 1 M. (C) Normalized fluorescence intensity of CDs-HS18 under UV (365 nm) irradiation for 2 h. (D) Fluorescence intensity of CDs-HS18 under 70 °C for 3 h.

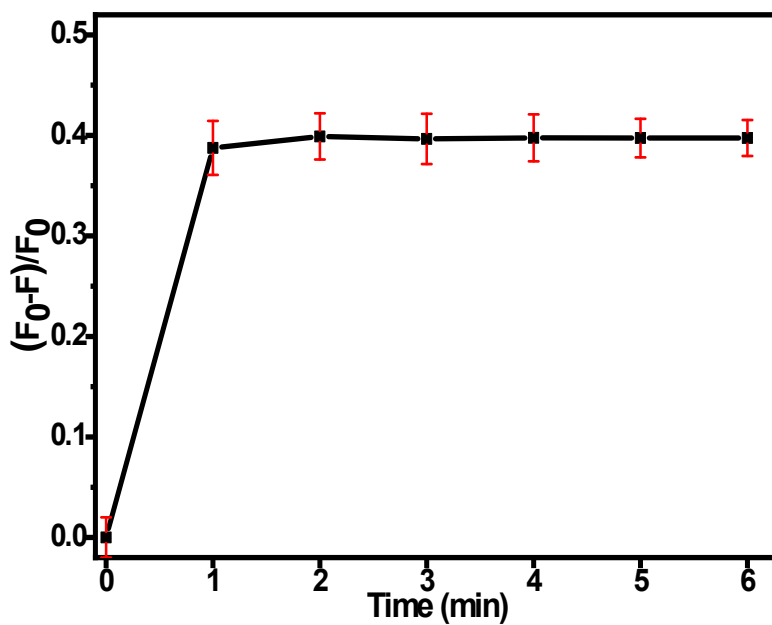


Fig. S2 Effect of reaction time on the detection of Cr⁶⁺ with CDs-HS18.

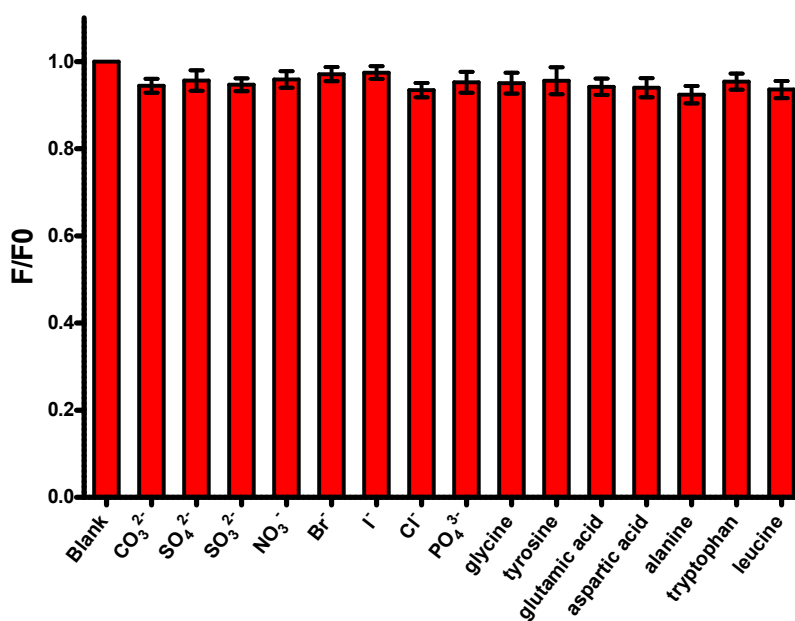


Fig. S3 Fluorescence quenching efficiency of common anions (100 μ M) and amino acids (100 μ M) toward CDs-HS18.