

Supporting Information

Modulating optical properties of AIE fluophor confined within UiO-66's nanochannels for chemical sensing

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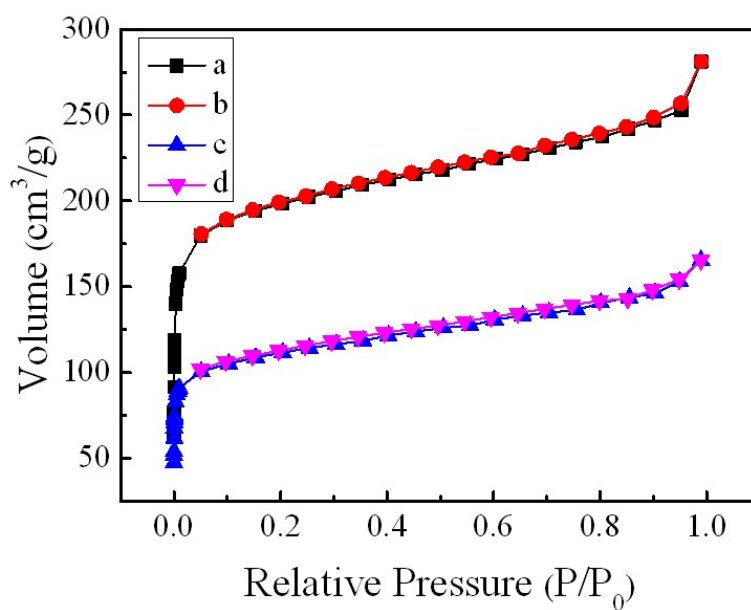


Figure S1. N₂ sorption isotherm of UiO-66 (curve a and b) and UiO-66⊃HDBB (curve c and d).

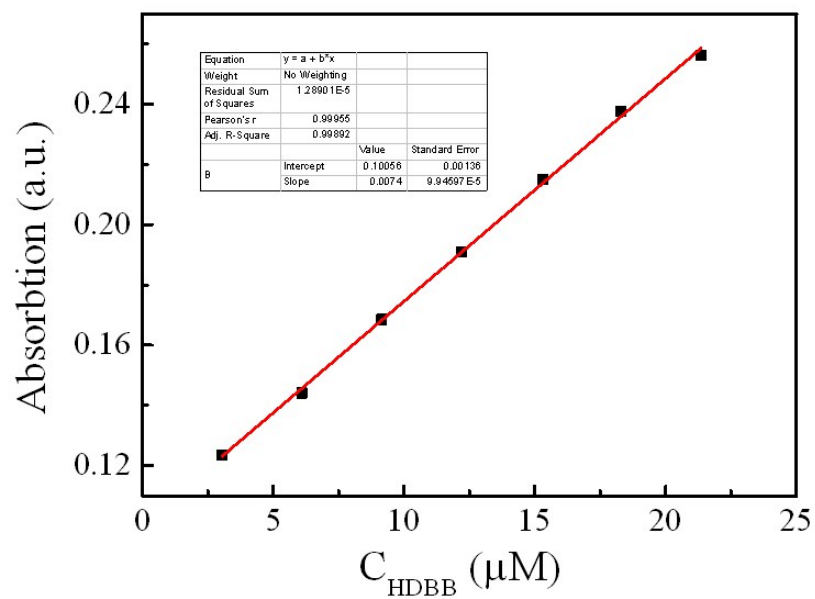


Figure S2. Standard curve of HDBB in pH 12.0 phosphate buffer solution by UV-Vis measurement.

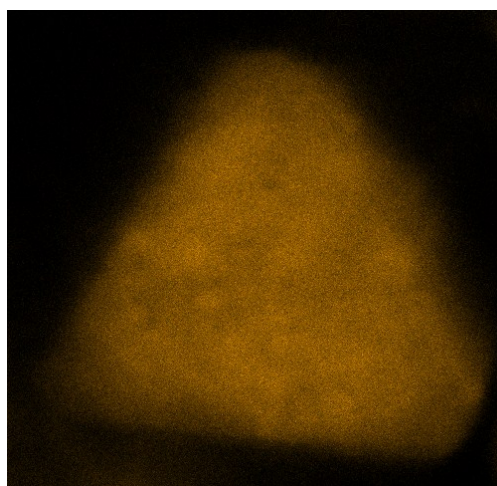


Figure S3. Fluorescence microscopy image of UiO-66@HDBB composite.

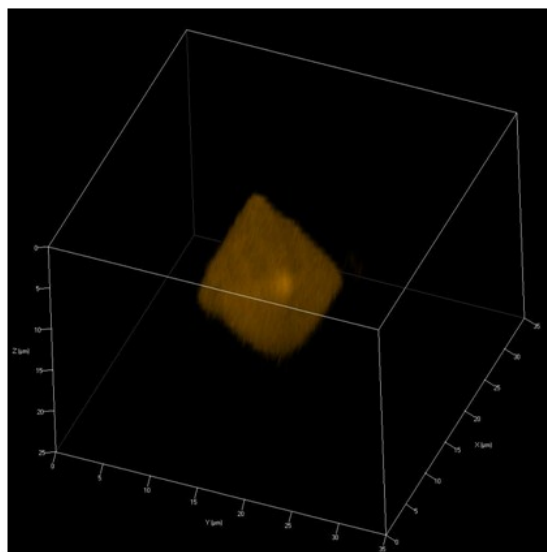


Figure S4. 3D representation of UiO-66@HDBB composite.

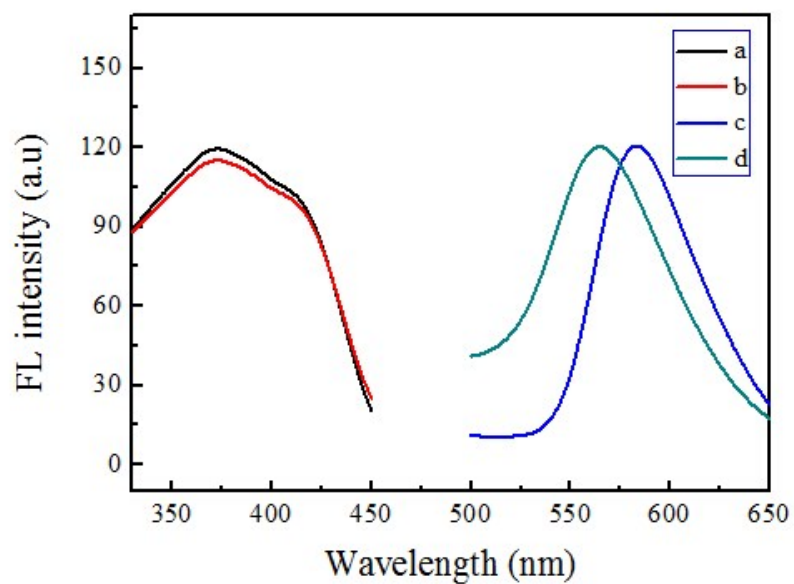


Figure S5. The excitation spectra of (pH= 4, 20 μ M) HDBB (curve a) and (pH= 4, 0.15 mg/ L) UiO-66@HDBB (curve b), the fluorescence emission intensity of (pH= 4, 20 μ M) HDBB (curve c) , and (pH= 4, 0.15 mg/ L) UiO-66@HDBB (curve d)

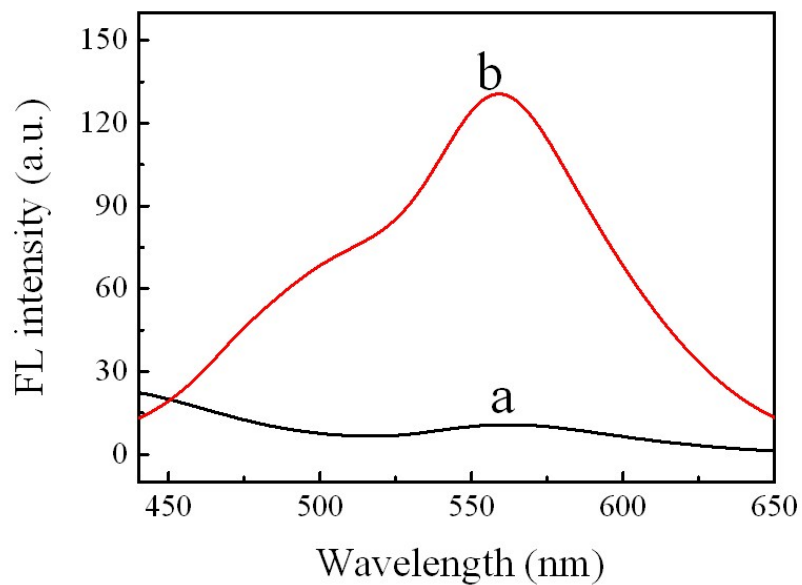


Figure S6. Fluorescence emission spectra of 6 μ M HDBB (curve a) and 0.1 mg/mL UiO-66@HDBB (curve b) in DMF solution.

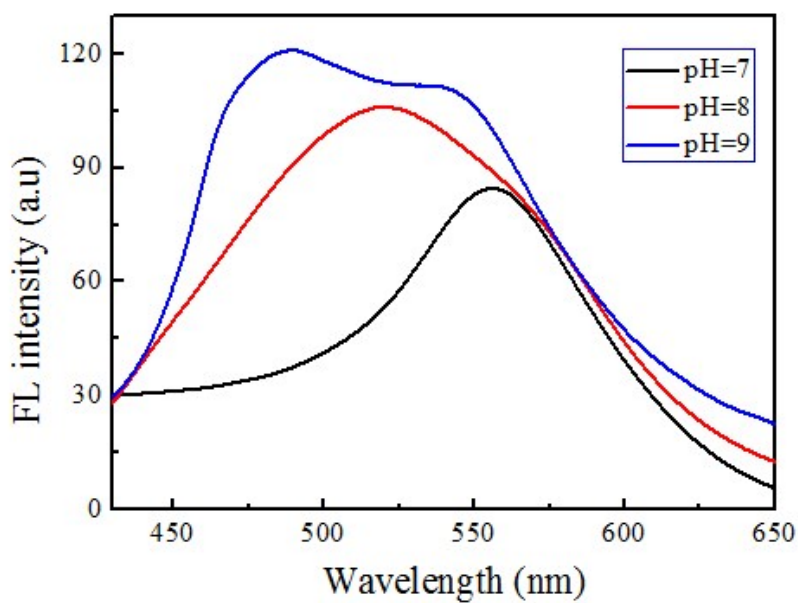


Figure S7. pH-dependent fluorescent spectra of UiO-66@HDBB in the aqueous solutions with pH ranging from 7 to 9 measured under excitation of 365 nm.

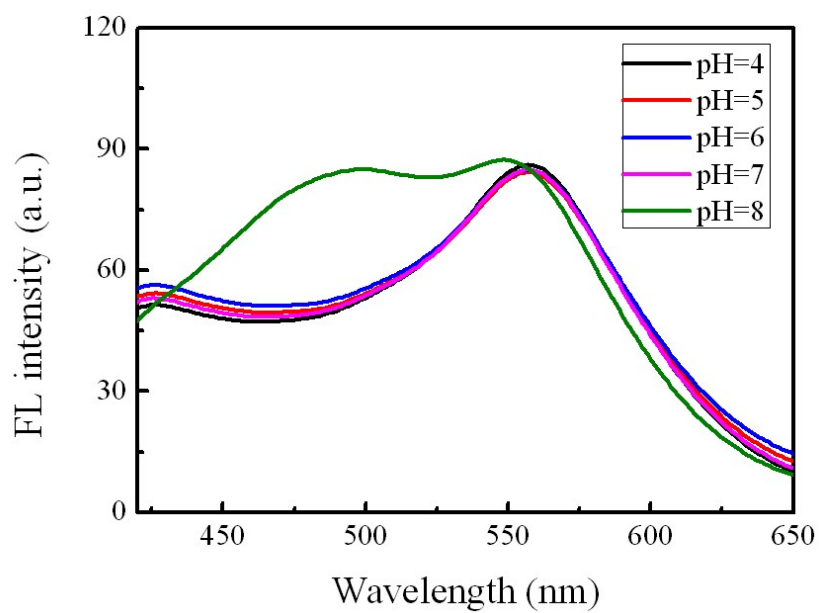


Figure S8. pH dependent fluorescent spectra of UiO-67@HDBB in the aqueous solutions with pH ranging from 4 to 8 measured under excitation of 365 nm.

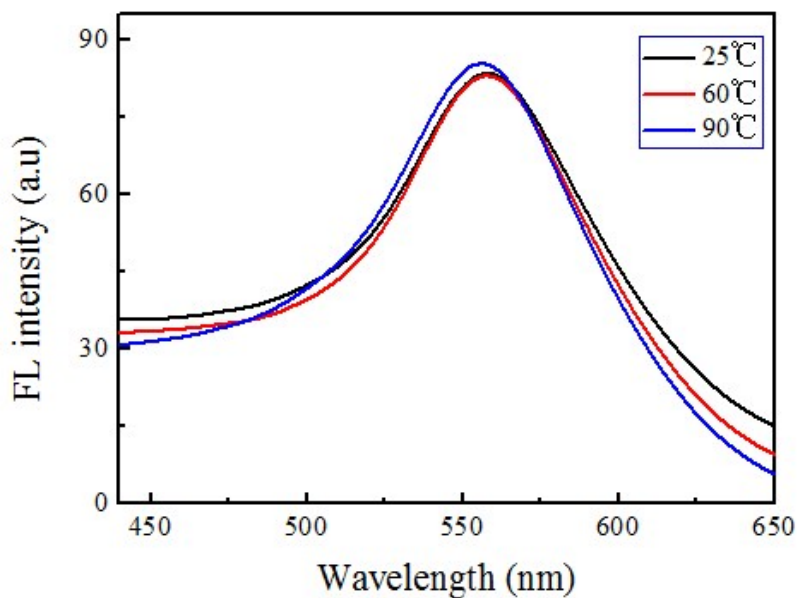


Figure S9. Fluorescence emission spectra of (pH= 4, 0.15 mg/ L) UiO-66@HDBB in 25 °C、60 °C、90 °C

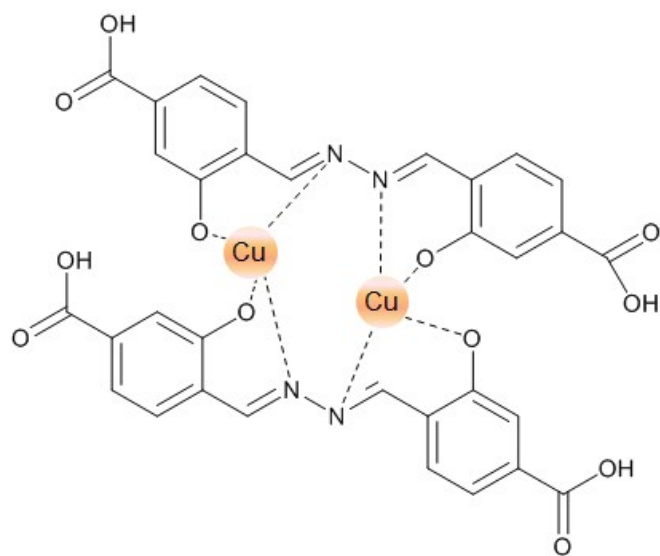


Figure S10. The structure of UiO-66-HDBB ground state complex