

Supplementary Information

Surfactant derived water-soluble carbon dots for quantitative determination of fluoride via turn-off-on strategy

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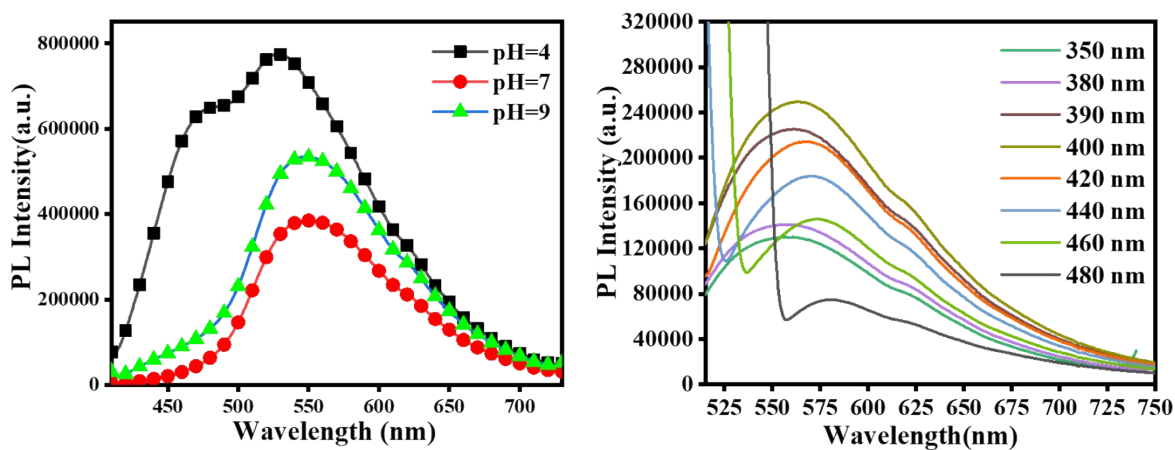


Fig. S1 a) Impact of pH, and b) different excitation wavelength on the PL response of WCDs.

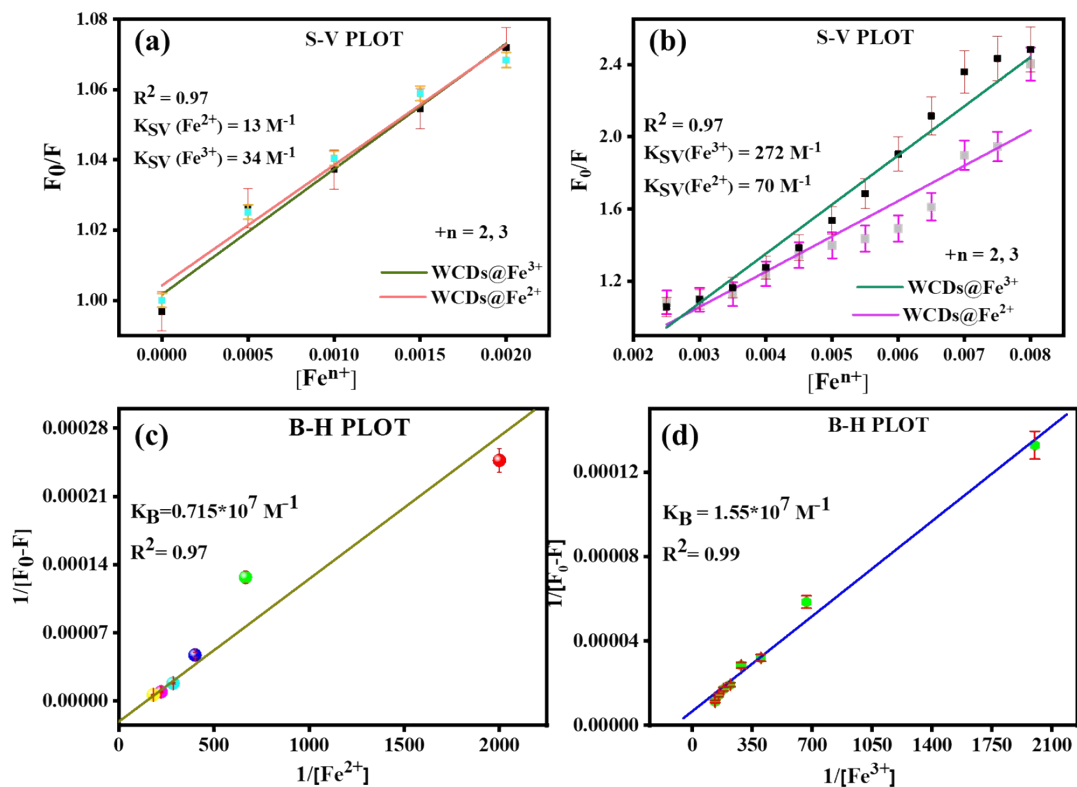


Fig. S2 Determination of quenching and binding constant of WCDs by using (a, b) S-V plot and (c, d) B-H plot for Fe²⁺, Fe³⁺ ions.

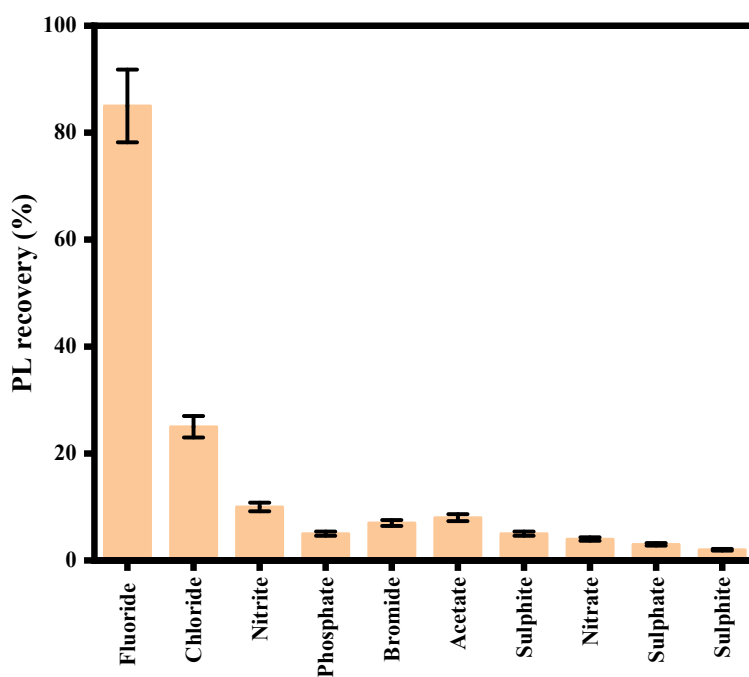


Fig. S3 PL recovery response of WCDs@Fe³⁺ in the presence of different anions.