

Supporting Information

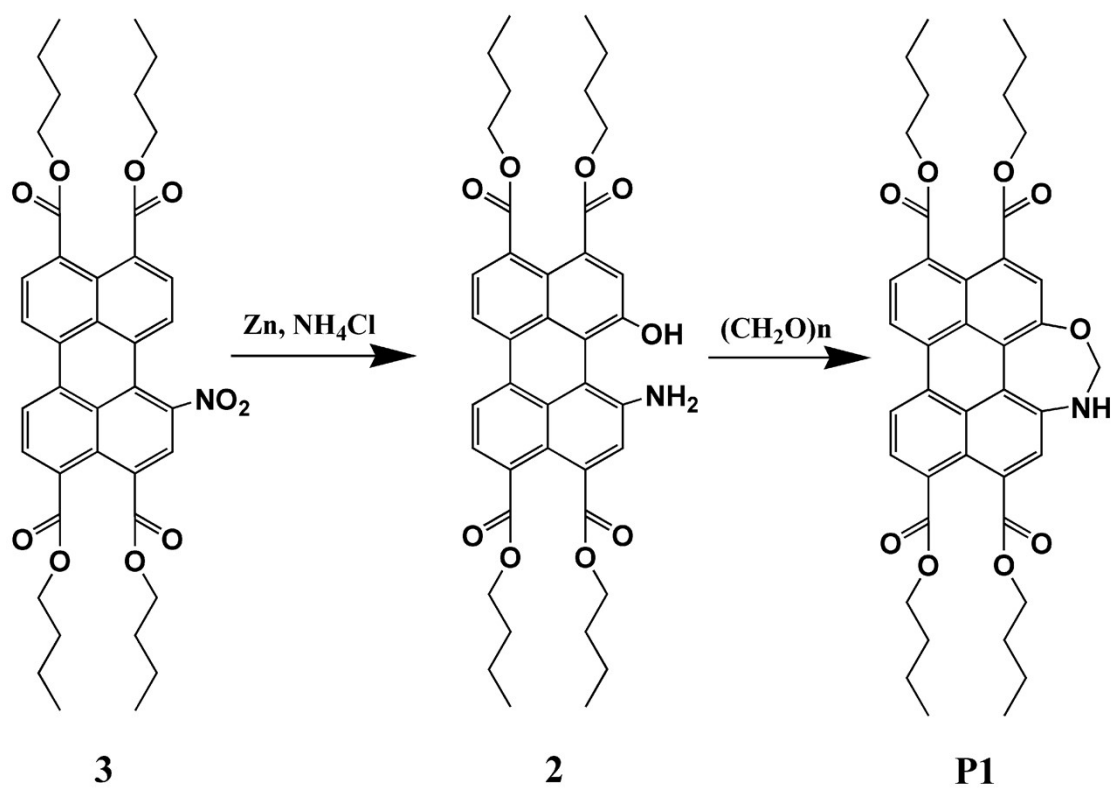
A novel colorimetric and fluorescent probe based on core-extended perylene tetra-(alkoxycarbonyl) derivative for selective sensing of fluoride ions

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Experimental section



Scheme s-1. The synthesis route of P1

Fig. S-1 ^1H NMR Spectra of P1

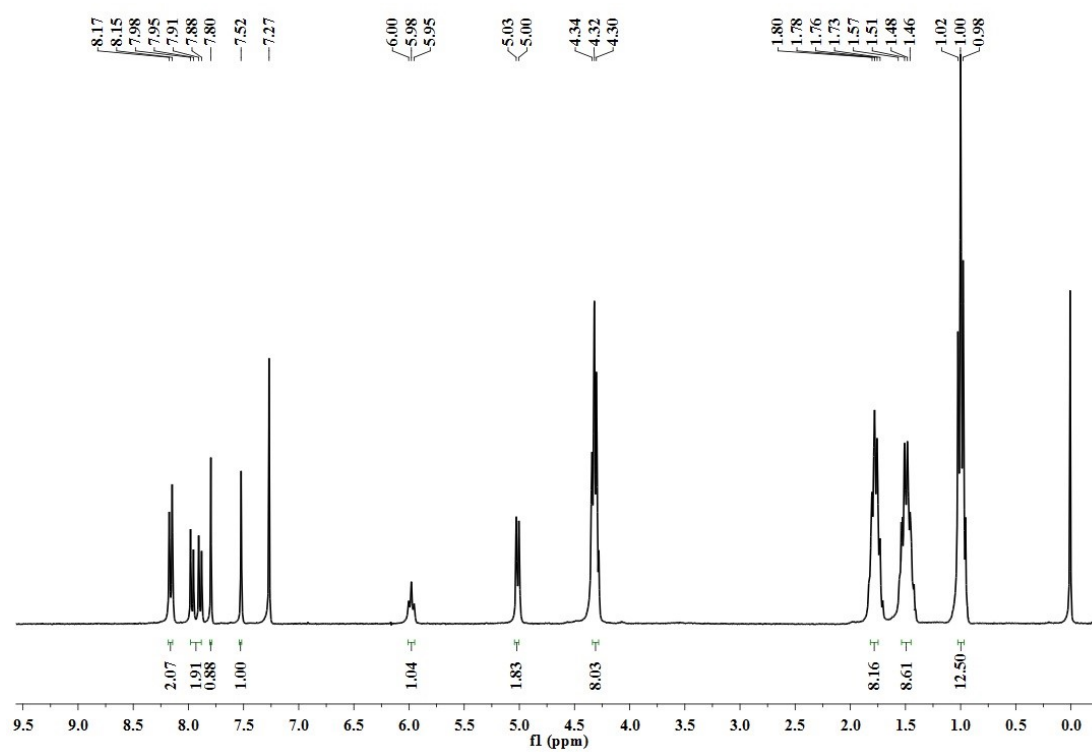


Fig. S-2 ^{13}C NMR Spectra of P1

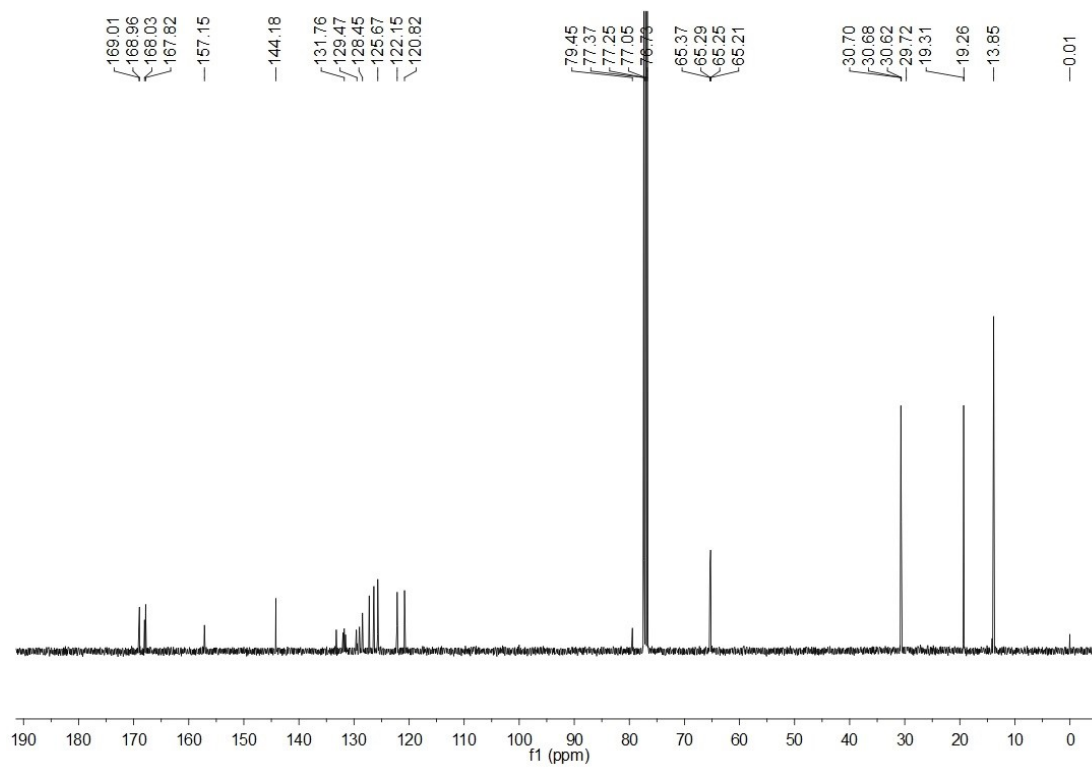


Fig. S-3 FTIR Spectra of P1

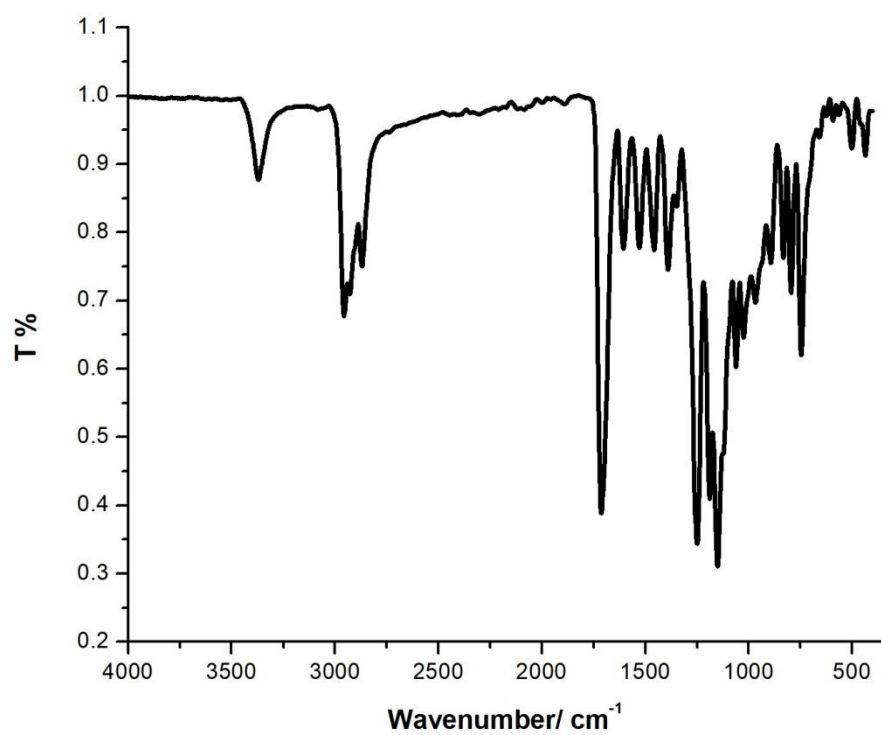


Fig. S-4 MALDI-TOF-MS Spectra of P1

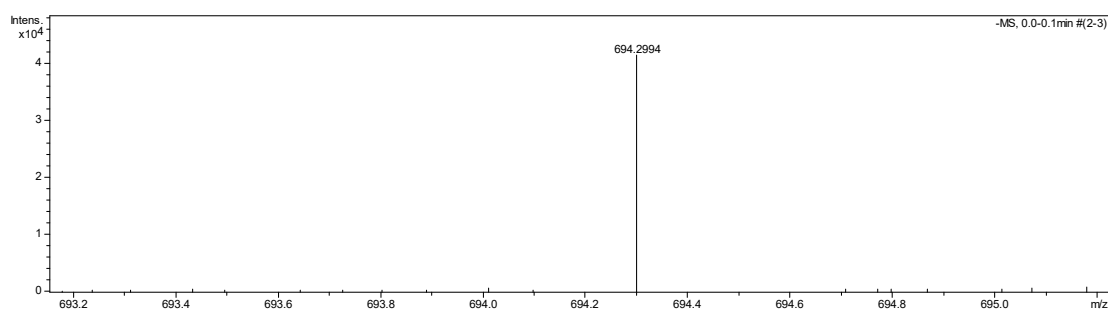


Fig. S-5 Job's plot of P1 with F^- ions.

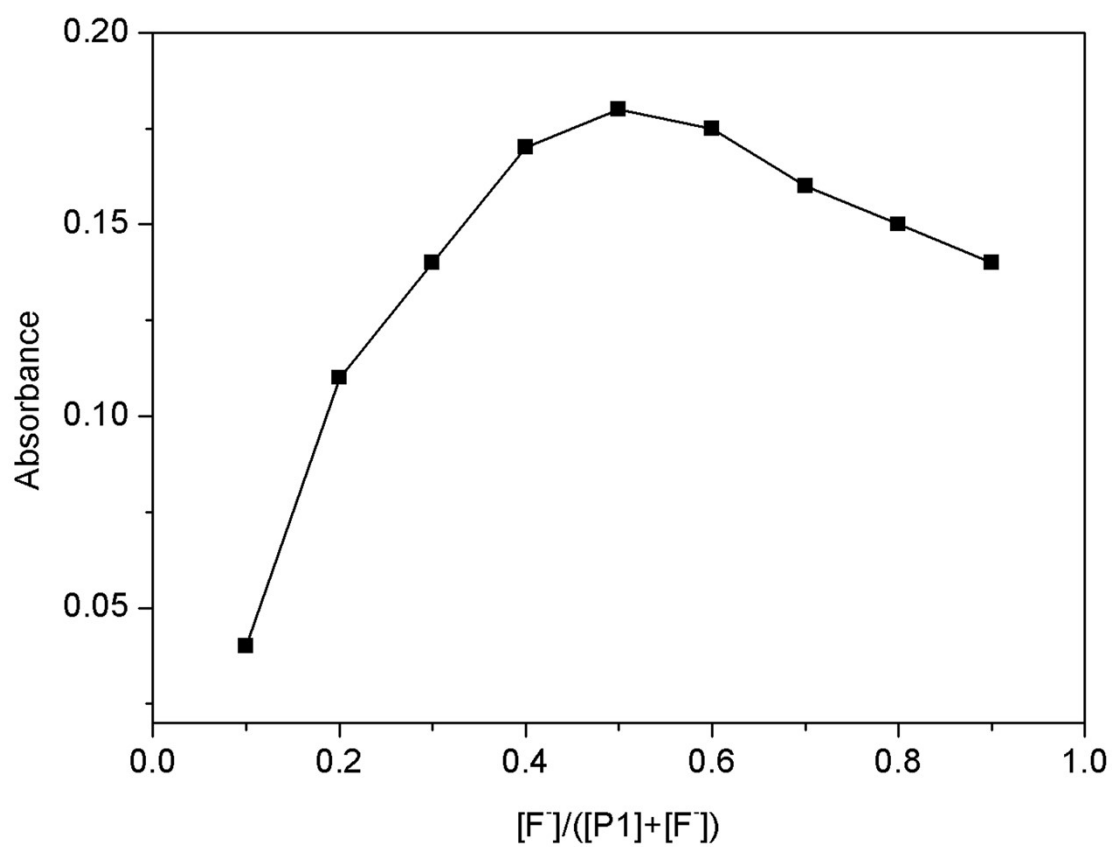


Fig. S-6 Benesi-Hildebrand plot of P1 with F^- ions.

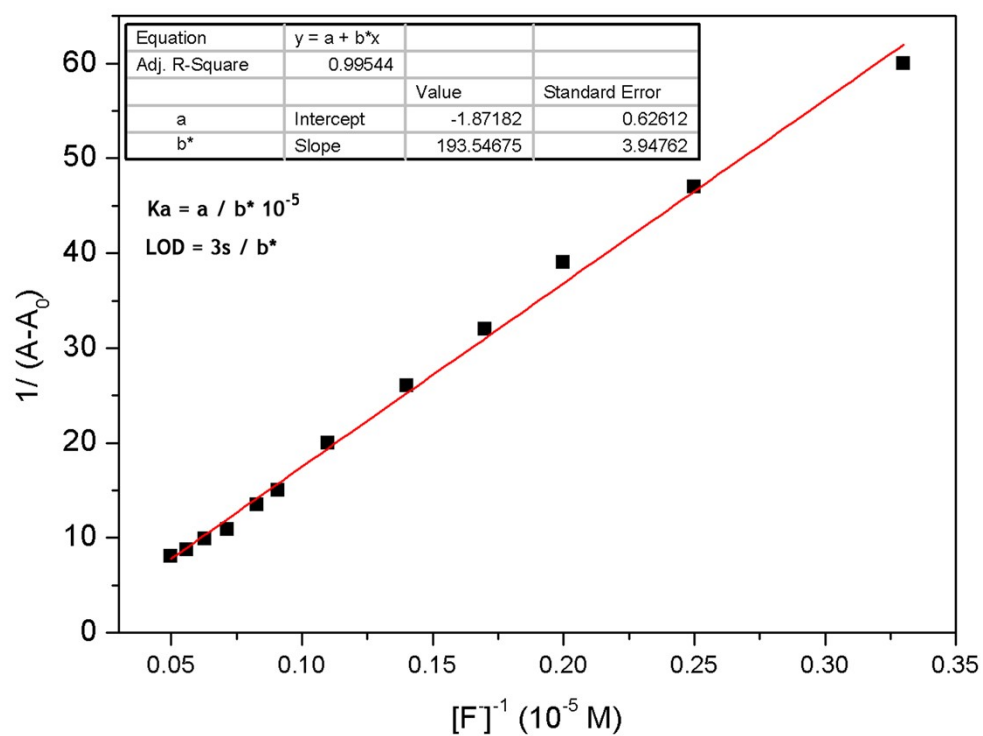


Fig. S-7 Linear correlation plot of the emission intensity of P1 at 574 nm with F⁻ ions (3-20 equiv.) in DCM.

