

Supplementary Information

Azocalix[4]arene-based Chromogenic Anion Probes

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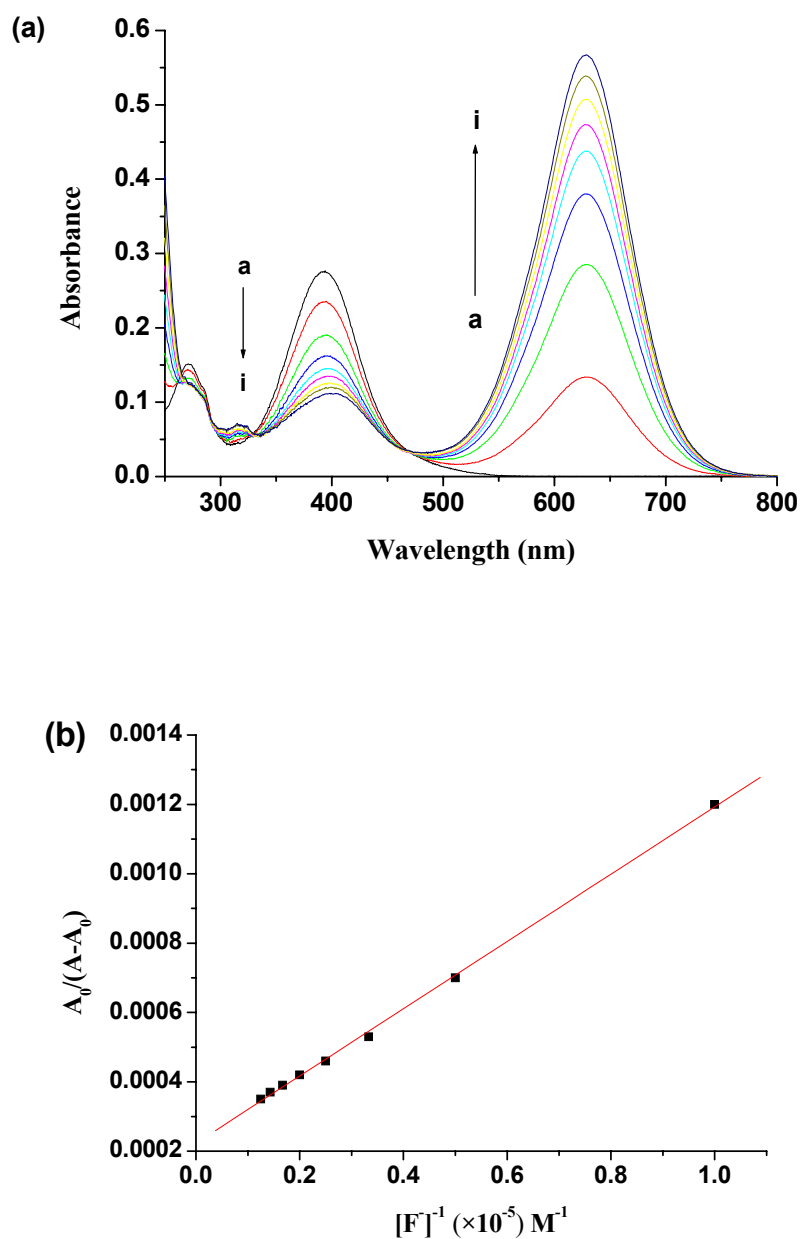


Figure S1. (a) UV-vis titrations of **1** (10^{-5} M) with F^- in MeCN, $[F^-]$: from a $\rightarrow$ i 0 – 8 eq. of **1**; (b) the plot of $A_0/(A-A_0)$ versus $[F^-]^{-1}$.

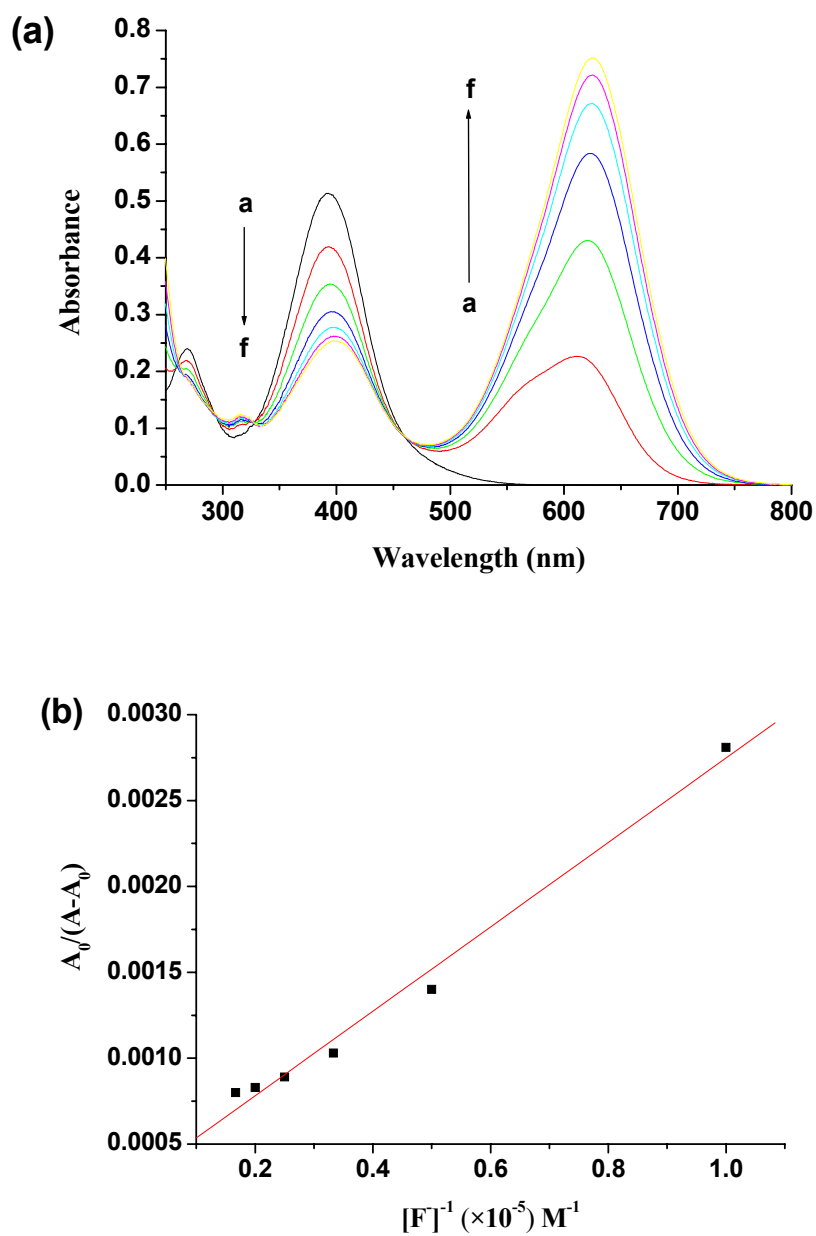


Figure S2. UV-vis titrations of **2** (10^{-5} M) with F^- in MeCN, $[F^-]$: from a $\rightarrow$ f: 0 - 6eq. of **2**;
 (b) the plot of $A_0/(A-A_0)$ versus $[F^-]^{-1}$.

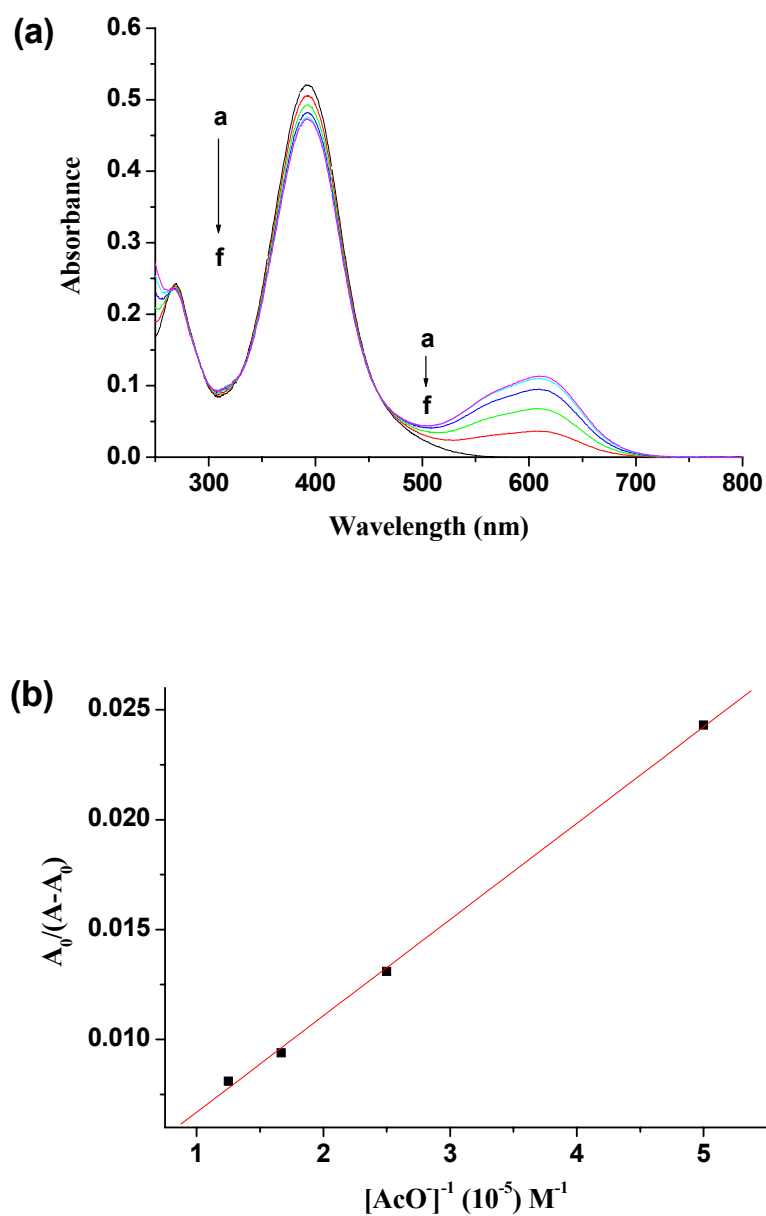


Figure S3. (a) UV-vis titrations of **2** (10^{-5} M) with AcO^- in MeCN, $[\text{AcO}^-]$: from a $\rightarrow$ f : 0 – 1.0eq. of **2**; (b) the plot of $A_0/(A-A_0)$ versus $[\text{AcO}^-]^{-1}$.

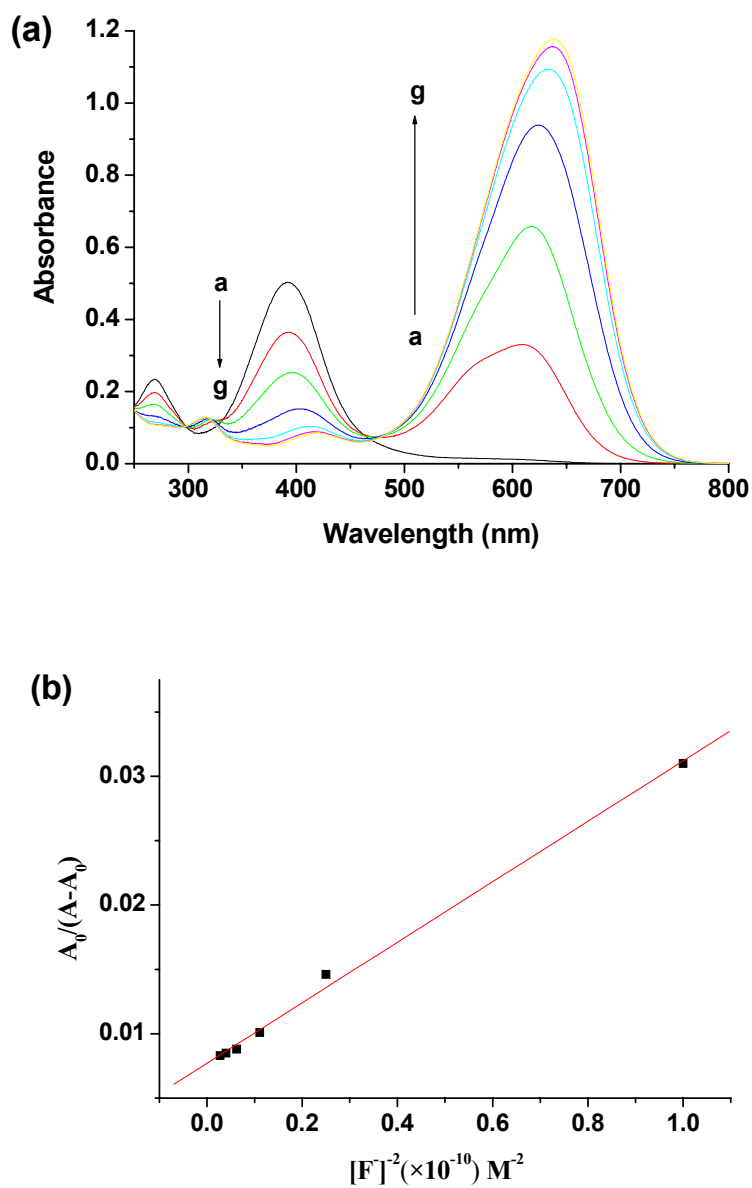


Figure S4. (a) UV-vis titrations of **3** (10^{-5} M) with F^- in MeCN, $[F^-]$: from a $\rightarrow$ g: 0 - 6eq. of **3**; (b) the plot of $A_0/(A-A_0)$ versus $[F^-]^2$.

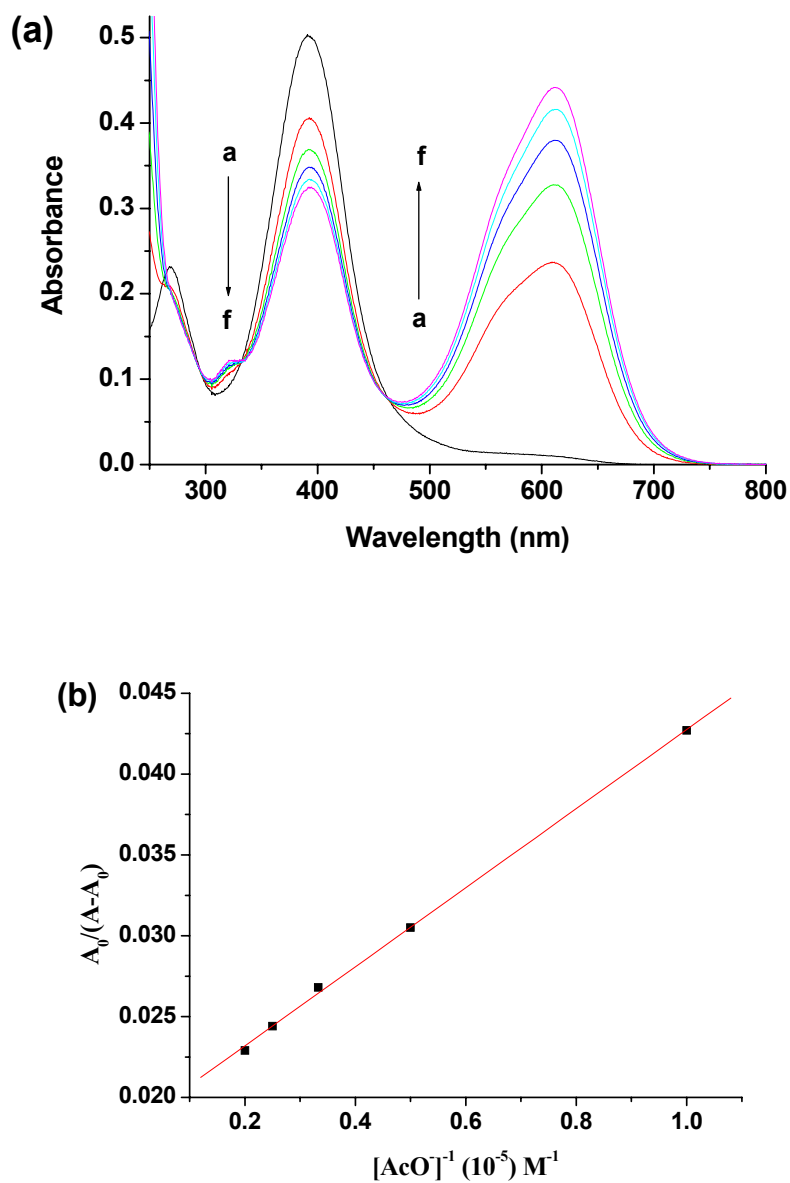


Figure S5. (a) UV-vis titrations of **3** (10^{-5} M) with AcO^- in MeCN, $[\text{AcO}^-]$: from a $\rightarrow$ f : 0 – 5.0eq. of **3**; (b) the plot of $A_0/(A-A_0)$ versus $[\text{AcO}^-]^{-1}$.

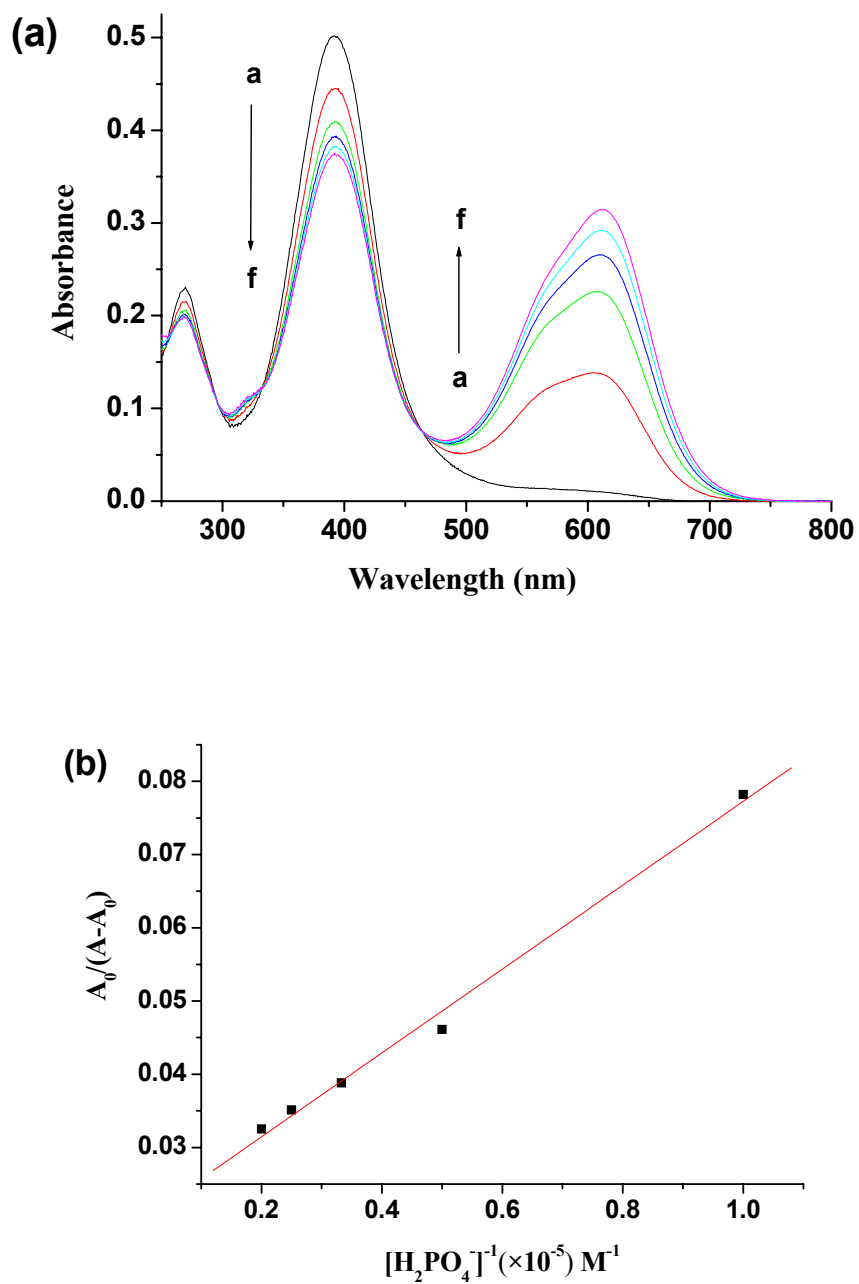


Figure S6. (a) UV-vis titrations of **3** (10^{-5} M) with H_2PO_4^- in MeCN, $[\text{H}_2\text{PO}_4^-]$: from a $\rightarrow$ f: 0 – 5.0eq. of **3**; (b) the plot of $A_0/(A-A_0)$ versus $[\text{H}_2\text{PO}_4^-]^{-1}$.

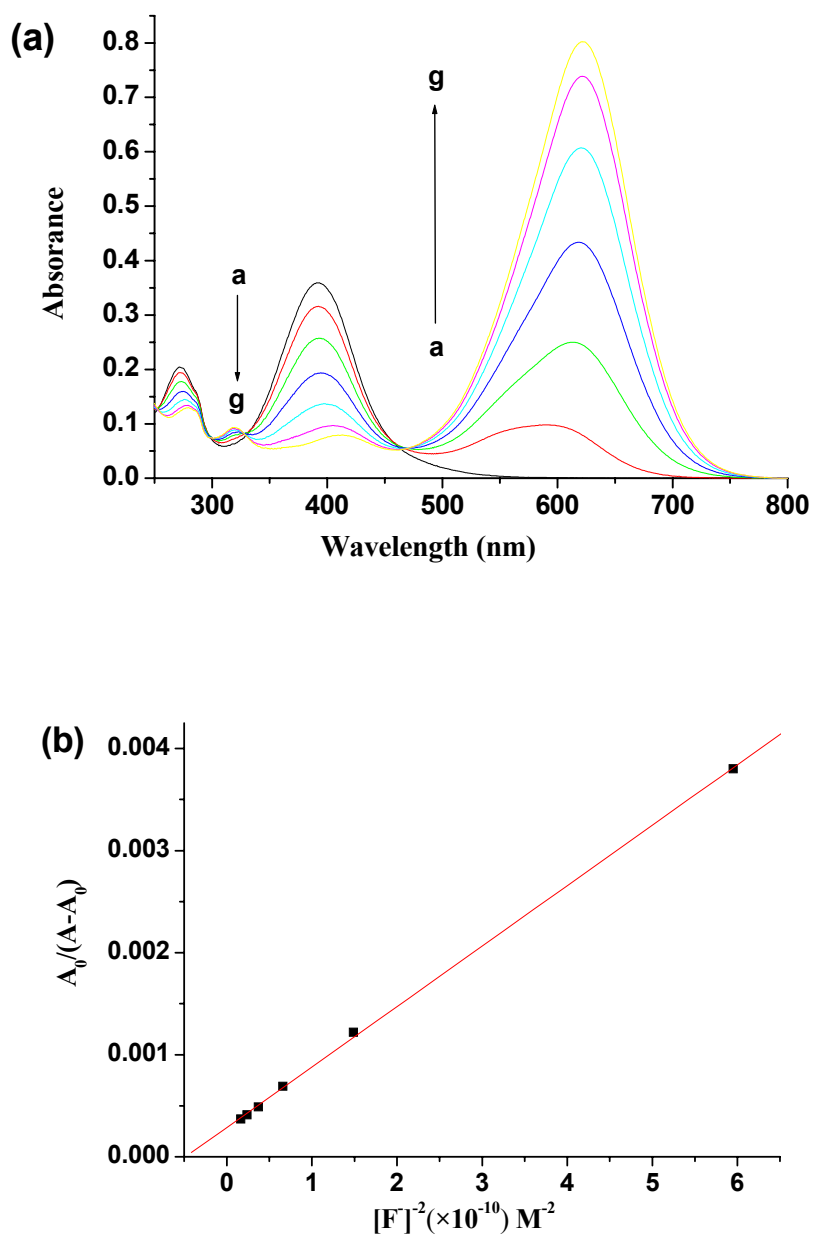


Figure S7. (a) UV-vis titrations of **4** (10⁻⁵ M) with F⁻ in MeCN, [F⁻]: from a → g 0 – 2.46eq. of **4**; (b) the plot of A₀/(A-A₀) versus [F⁻]².

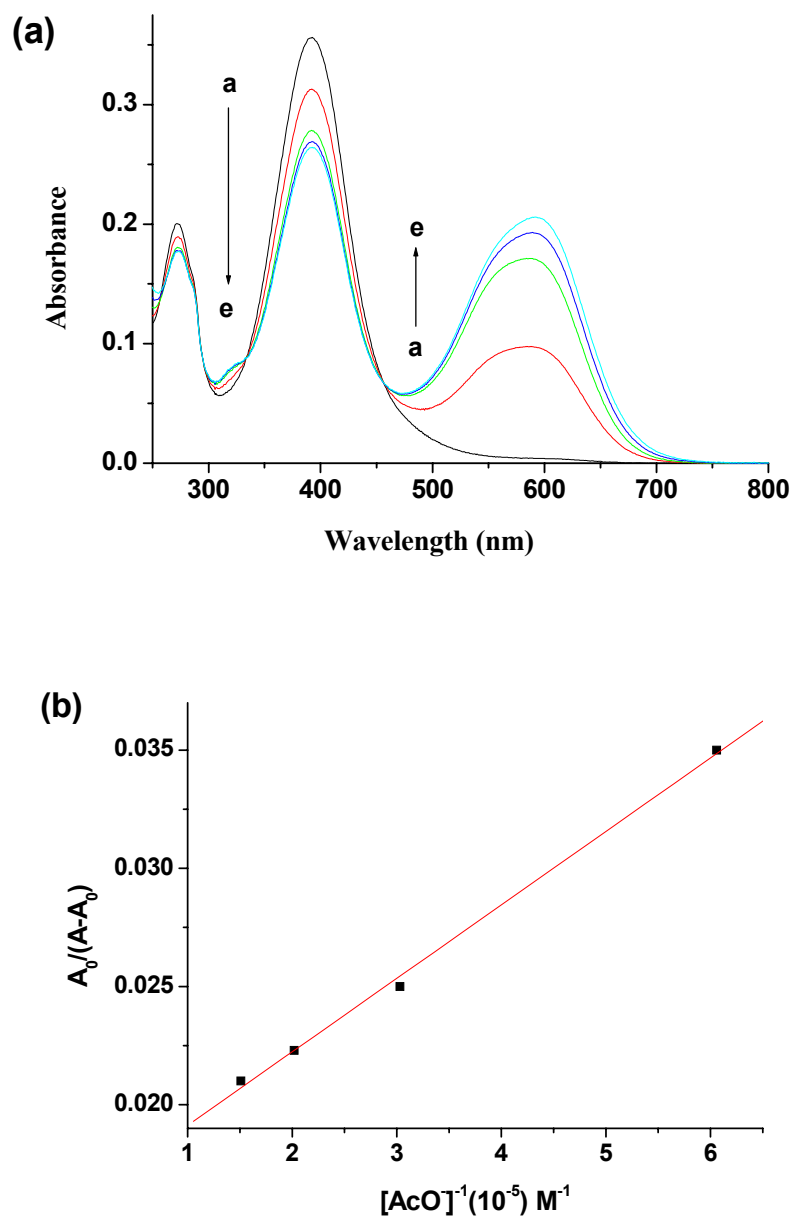


Figure S8. (a) UV-vis titrations of **4** (10^{-5} M) with AcO^- in MeCN, $[\text{AcO}^-]$: from a $\rightarrow$ e: 0 – 0.6eq. of **4**; (b) the plot of $A_0/(A-A_0)$ versus $[\text{AcO}^-]^{-1}$.

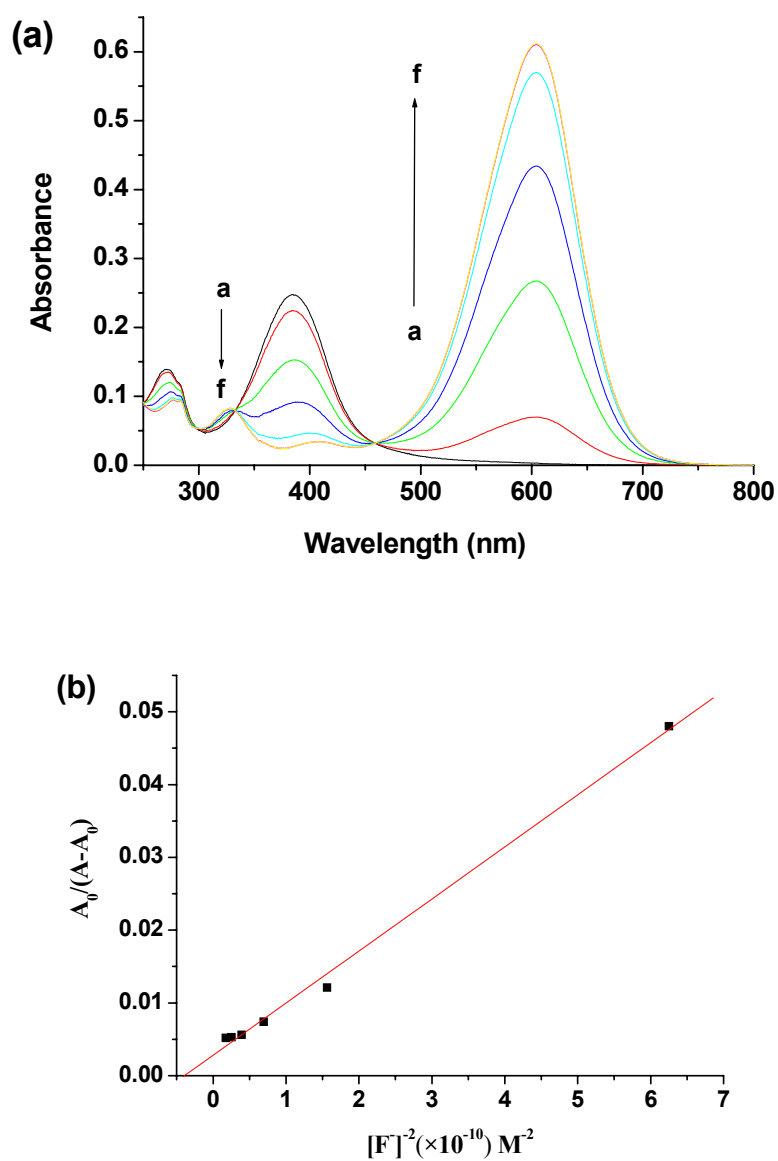


Figure S9. (a) UV-vis titrations of **5** (10^{-5} M) with F^- in MeCN. $[F^-]$: from a $\rightarrow$ f: 0 – 2.4eq. of **5**; (b) the plot of $A_0/(A-A_0)$ versus $[F^-]^2$.

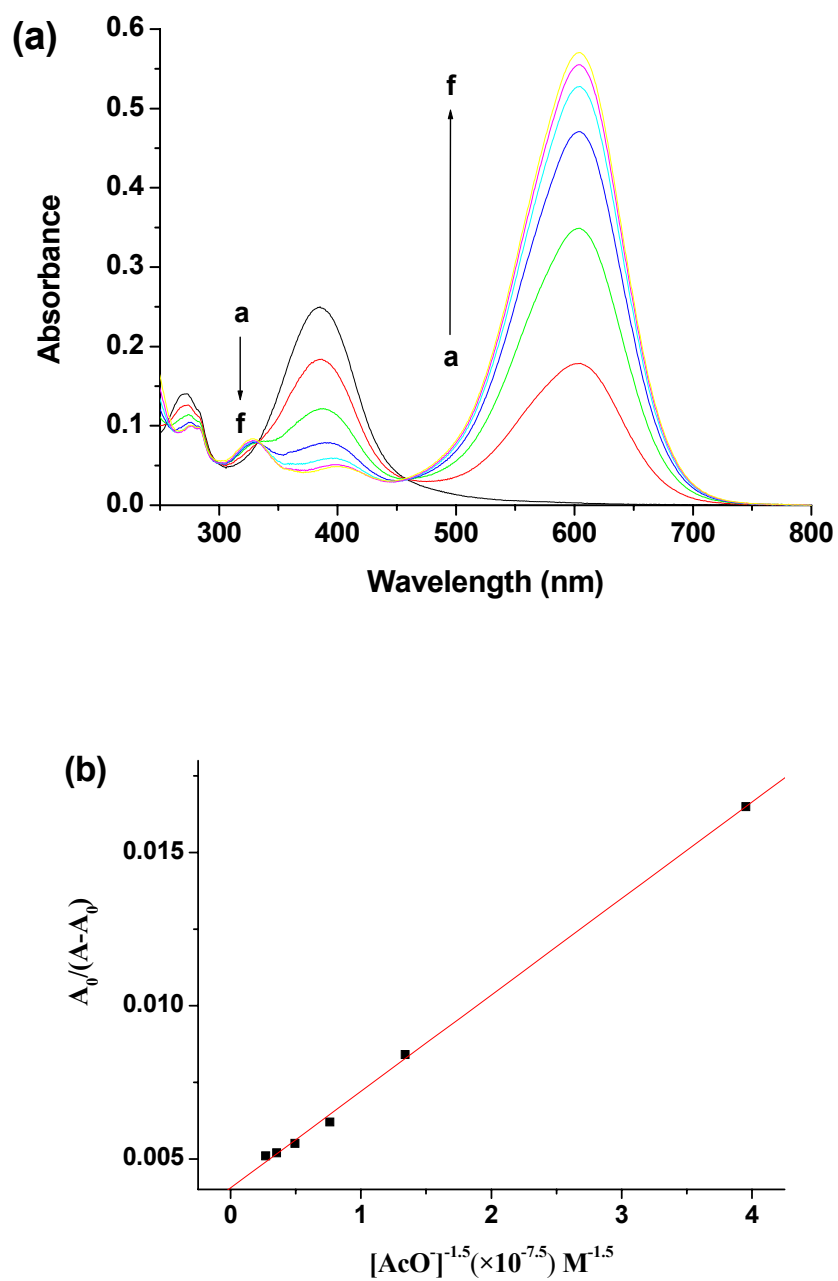


Figure S10. (a) UV-vis titrations of **5** (10^{-5} M) with AcO^- in MeCN, $[\text{AcO}^-]$: from a $\rightarrow$ f: 0 – 2.4 eq. of **5**; (b) the plot of $A_0/(A-A_0)$ versus $[\text{AcO}^-]^{-1.5}$.

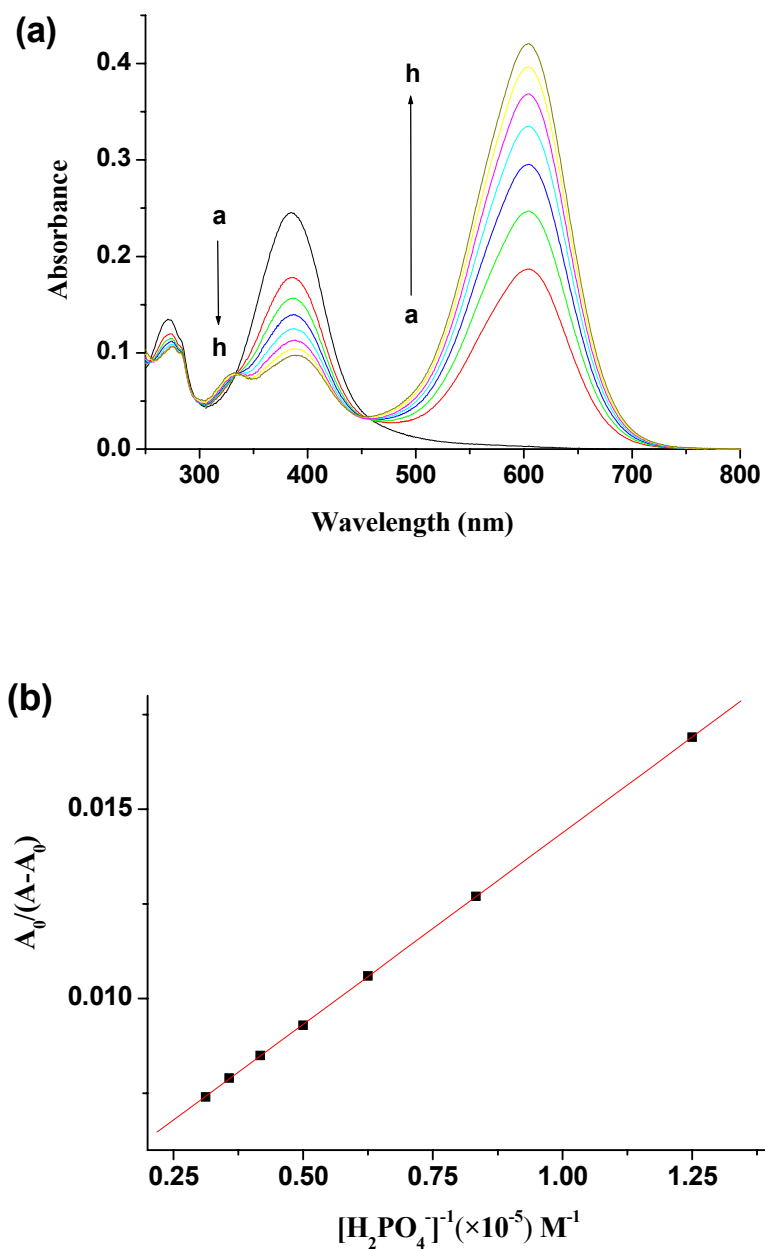


Figure S11. (a) UV-vis titrations of **5** (10^{-5} M) with H_2PO_4^- in MeCN, $[\text{H}_2\text{PO}_4^-]$: from a $\rightarrow$ h: 0 – 3.2 eq. of **5**; (b) the plot of $A_0/(A-A_0)$ versus $[\text{H}_2\text{PO}_4^-]^{-1}$.