

Aminoanthraquinone based chemosensors: Colorimetric molecular logics mimicking molecular trafficking and set-reset memorized device

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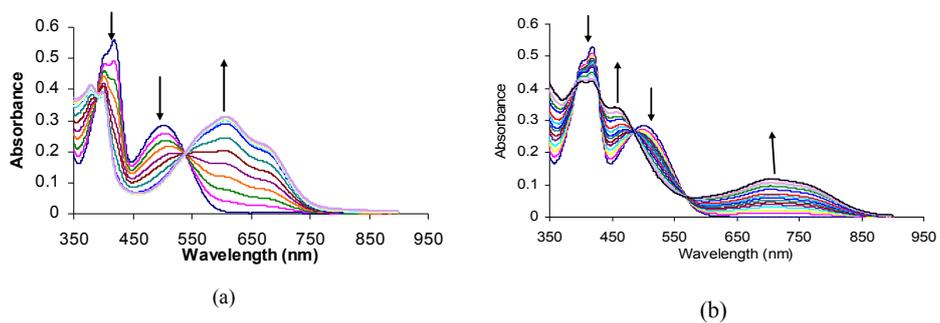


Figure S1. Changes in the absorption spectrum of **3** on gradual addition of (a) Cu^{2+} ; (b) Ni^{2+}

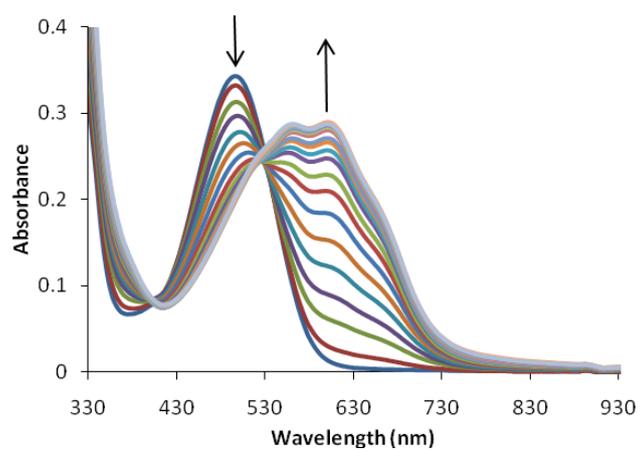


Figure S2. Changes in the absorption spectrum of **5** on gradual addition of Cu²⁺

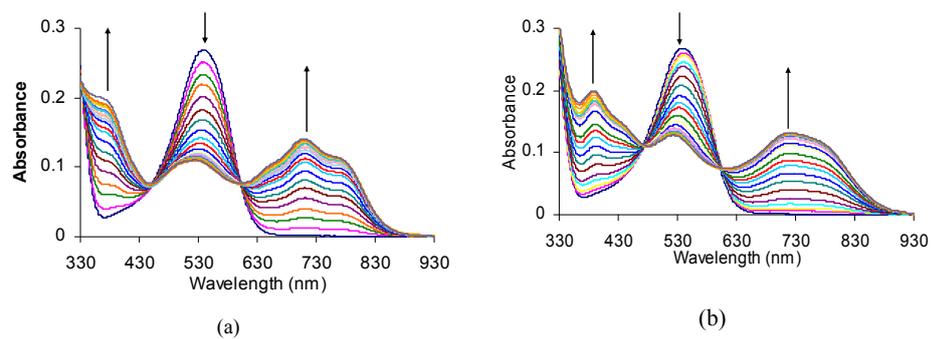


Figure S3. Absorbance changes in the UV-Vis spectra of **6** (25 μM ; pH 7.0; $\text{CH}_3\text{CN}:\text{H}_2\text{O}$ 4:1) on gradual addition of (a) Co^{2+} ; (b) Ni^{2+}

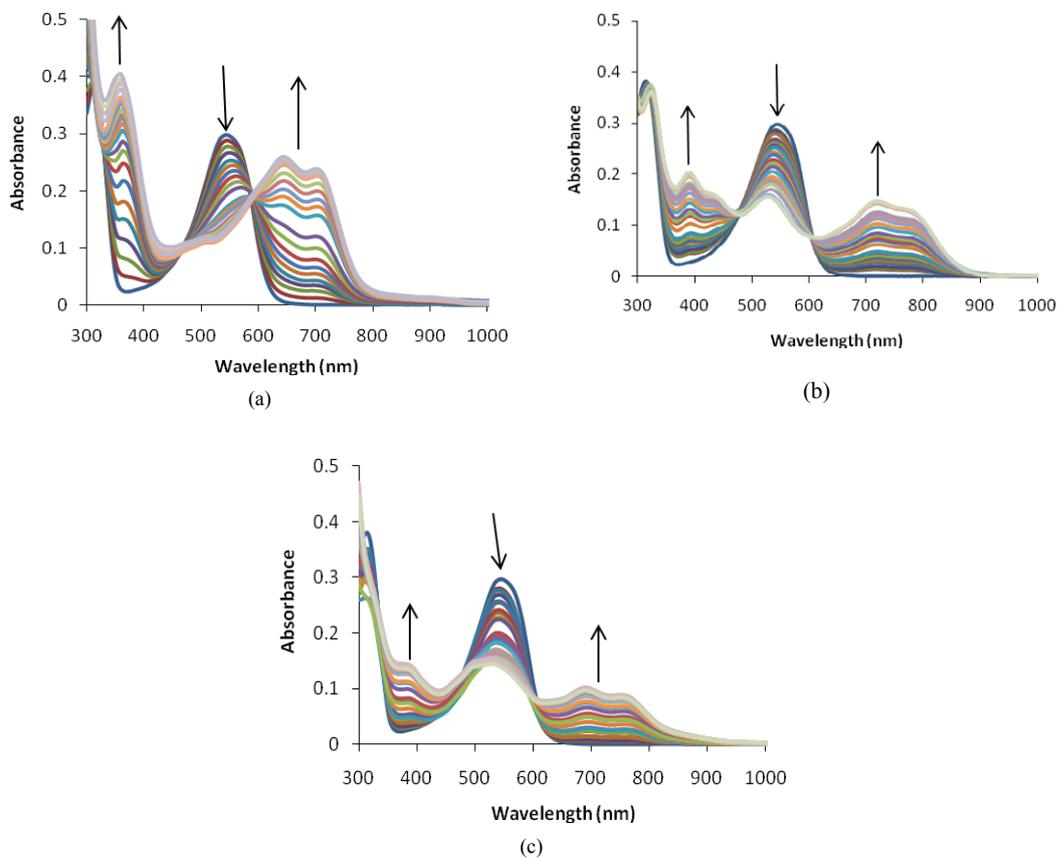


Figure S4. Absorbance changes in the UV-Vis spectra of **6** (25 μM; pH 7.0; THF:H₂O 4:1) on gradual addition of (a) Cu²⁺; (b) Ni²⁺ and (c) Co²⁺

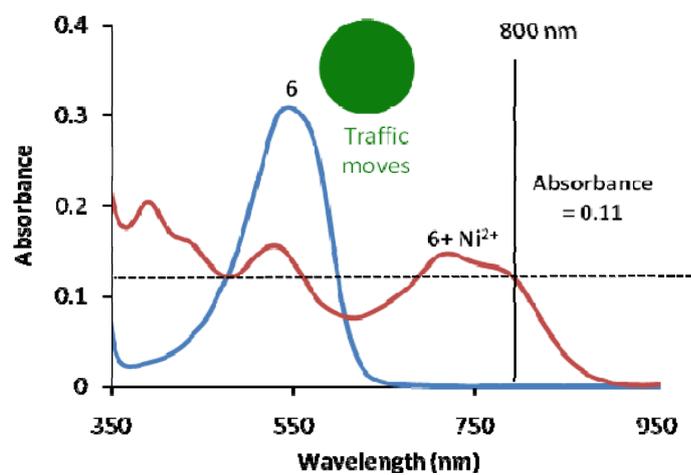


Figure S5: Absorption curves for molecular scale implementation of “traffic on” with addition of input 3 (Ni²⁺ ions).

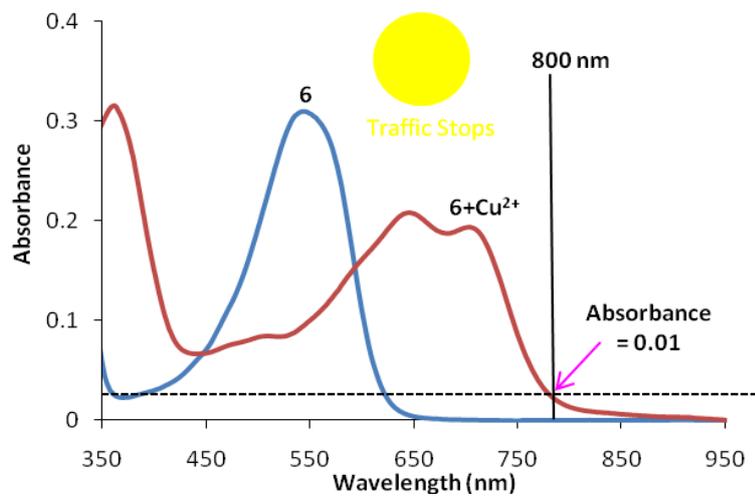


Figure S6: Absorption curves for molecular scale implementation of “traffic off” with addition of input 2 (Cu^{2+}).

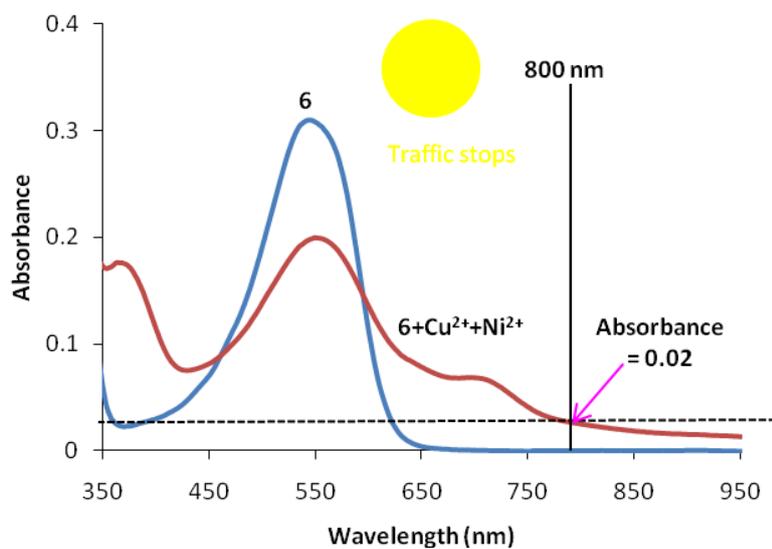


Figure S7: Absorption curves for molecular scale implementation of “traffic off” with addition of input 3 (Ni²⁺) followed by addition of input 2 (Cu²⁺).

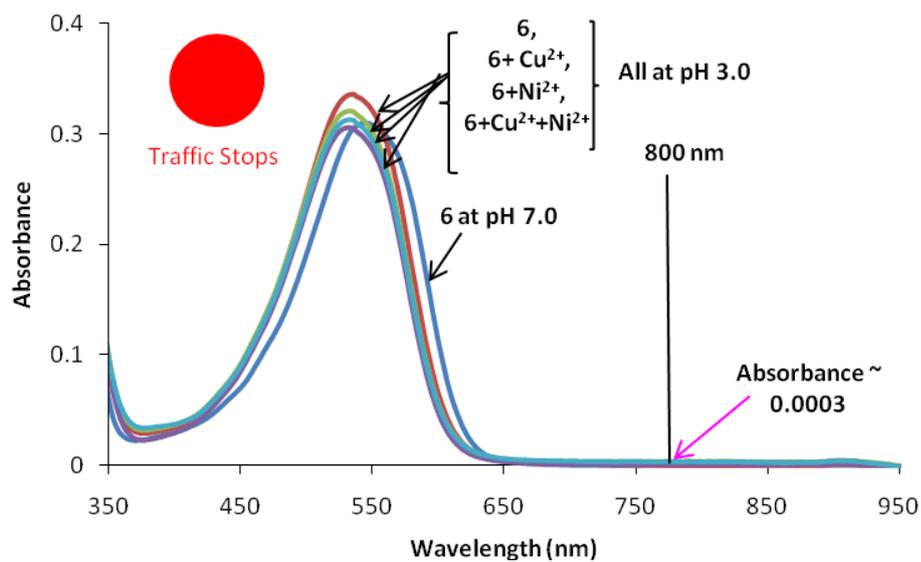


Figure S8: Absorption curves for molecular scale implementation of “traffic off” with addition of input 1 (pH).

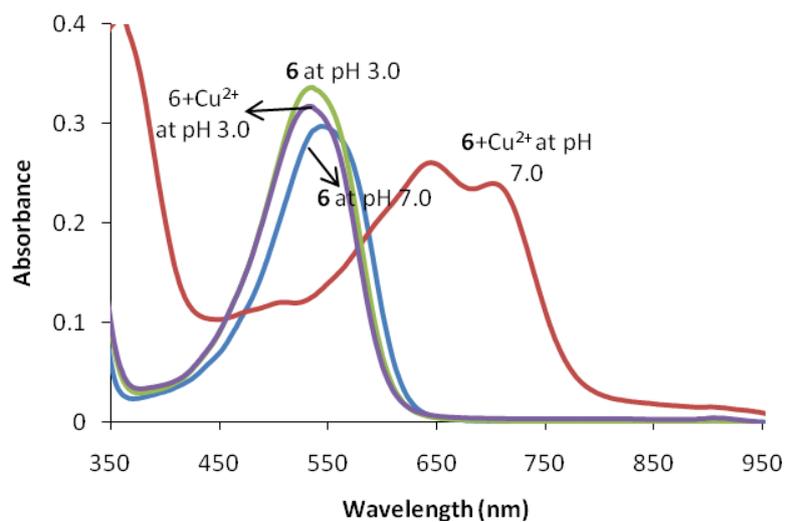


Figure S9: Absorption curves for molecular scale implementation of “Set-Reset” device.