

Electronic Supplementary Information (ESI) for New Journal of Chemistry

Novel Oxazine and Oxazone Dyes: Aggregation Behavior and Physicochemical Properties

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ELECTRONIC SUPPLEMENTARY INFORMATION (ESI)

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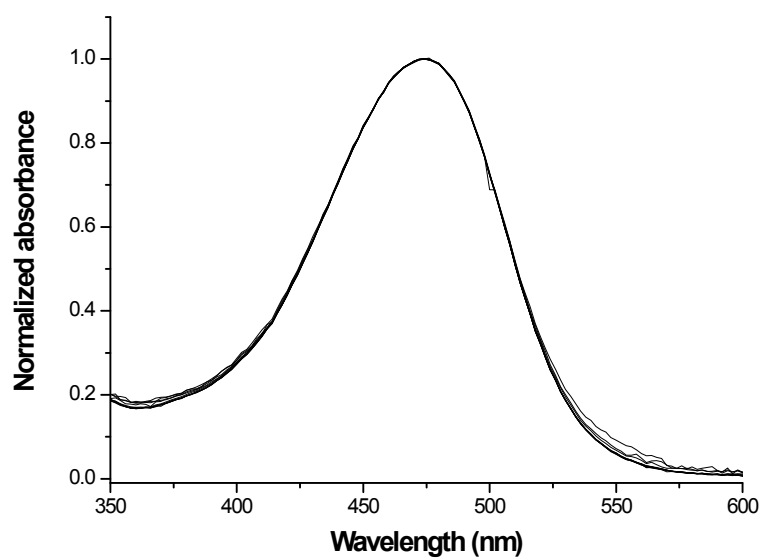


Figure S1: Normalized absorption spectra at 474 nm of CVBr₃ in DMF as a function of concentration, n=11. [CVBr₃]= 1.79x10⁻⁶ M - 3.23x10⁻⁵ M.

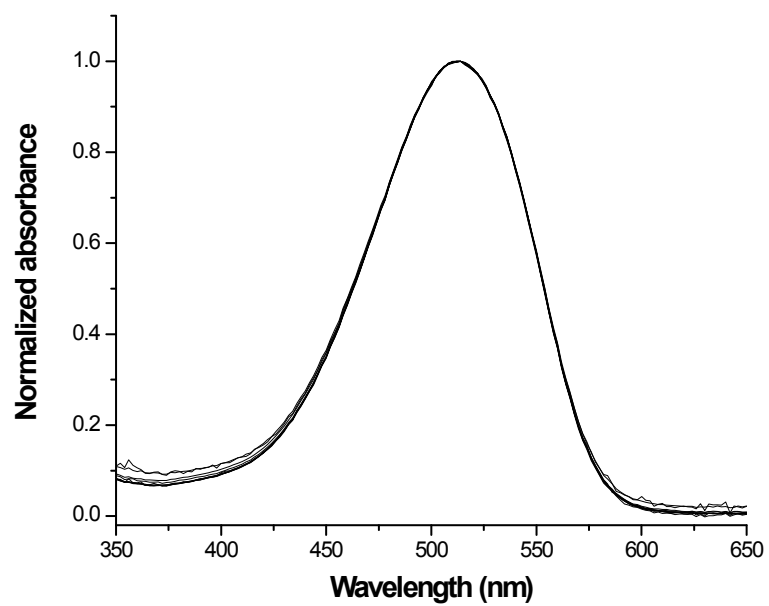


Figure S2: Normalized absorption spectra at 514 nm of CR in DMF as a function of concentration, $n=10$. $[CR]= 1.53 \times 10^{-5} \text{ M} - 2.13 \times 10^{-4} \text{ M}$.

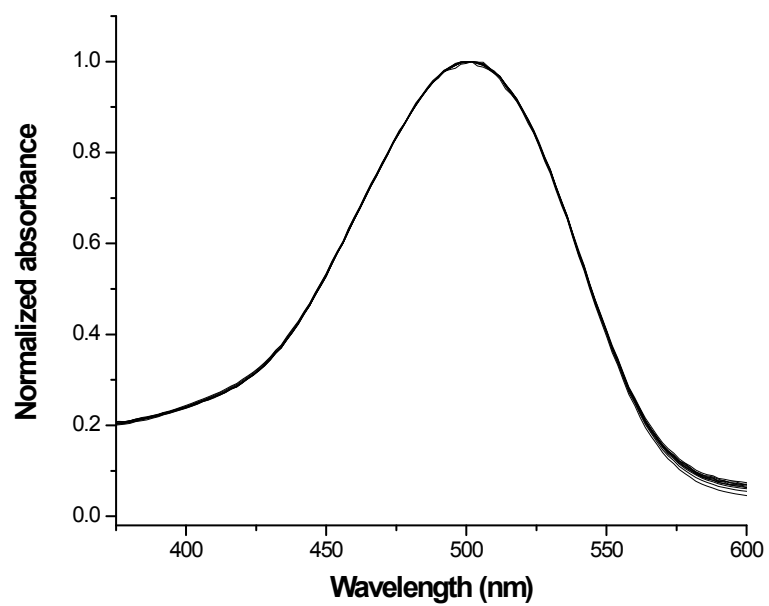


Figure S3: Normalized absorption spectra at 502 nm of CRBr₃ in DMF as a function of concentration, n=10. [CRBr₃]= 8.07x10⁻⁵ M – 8.02x10⁻⁴ M.

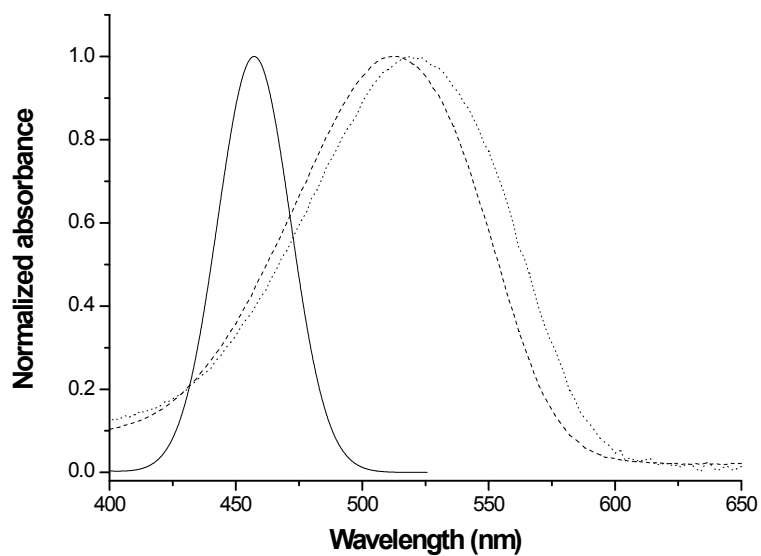


Figure S4: Theoretical and experimental visible absorption band for CR. Solid-line: Theoretical spectrum of monomer in DMF ($\lambda_{ES}= 457.2$ nm); dashed-line: Experimental spectrum of aggregate in DMF ($\lambda_{Exp}= 512$ nm); dotted-line: Experimental spectrum of aggregate in ethanol ($\lambda_{Exp}= 520$ nm).

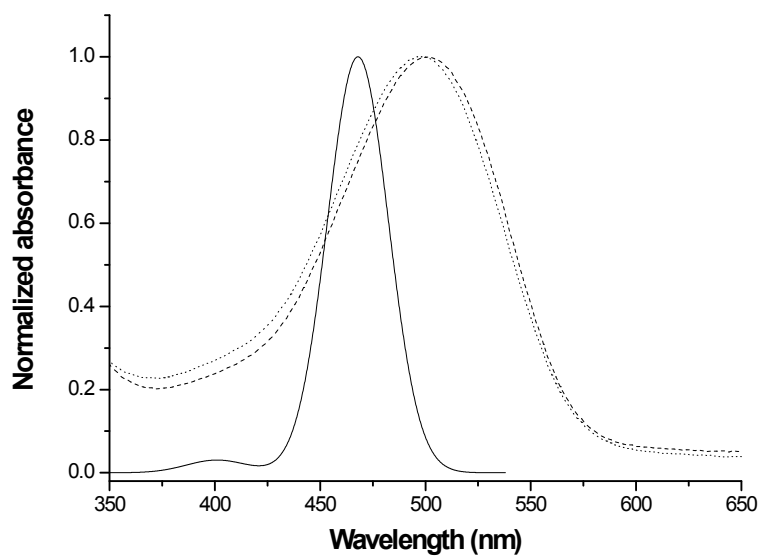


Figure S5: Theoretical and experimental visible absorption band for CRBr₃. Solid-line: Theoretical spectrum of monomer in DMF (λ_{ES} = 468.0 nm). Solid-line: Experimental spectrum of aggregate in DMF (λ_{Exp} = 498 nm); dashed-line: Experimental spectrum of aggregate in ethanol (λ_{Exp} = 498 nm).