

Supporting information

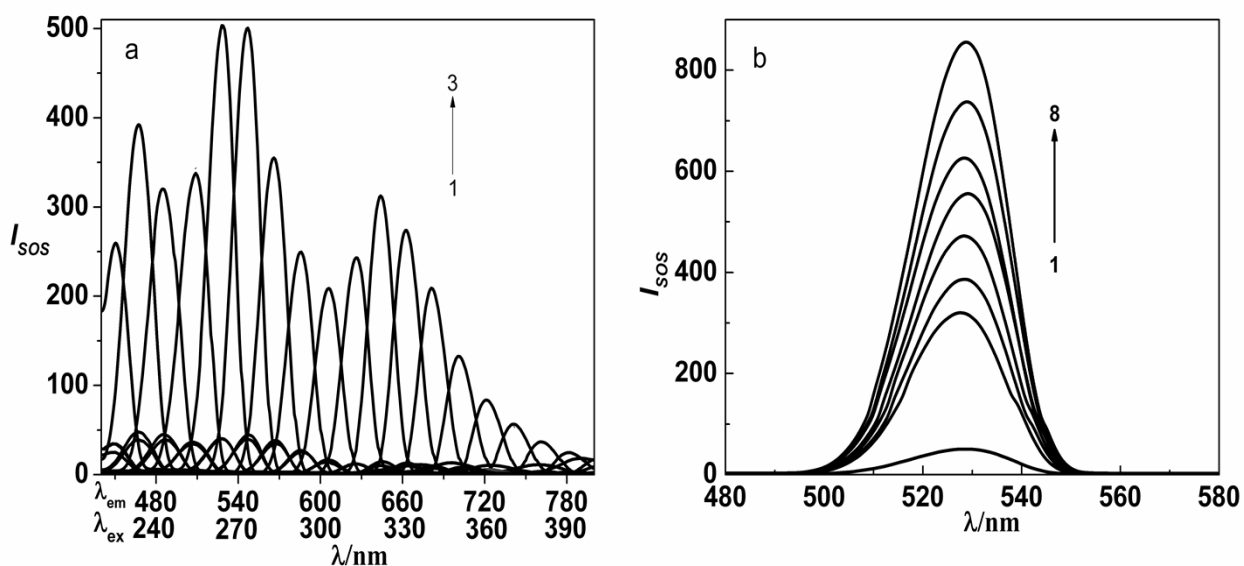


Fig.1. SOS spectra of EMO-EV system

(a) 1EV; 2 EMO; 3 EV-EMO; $C_{EMO}: 1.0 \mu g \cdot mL^{-1}$, $C_{EV}: 1.2 \times 10^{-5} mol \cdot L^{-1}$ (b) EV-EMO system. C_{EMO} (1-8) 0, 0.4, 1.0, 1.5, 2.3, 3.2, 3.8, 4.8 $\mu g \cdot mL^{-1}$; $C_{EV}: 1.2 \times 10^{-5} mol \cdot L^{-1}$; pH=7.0

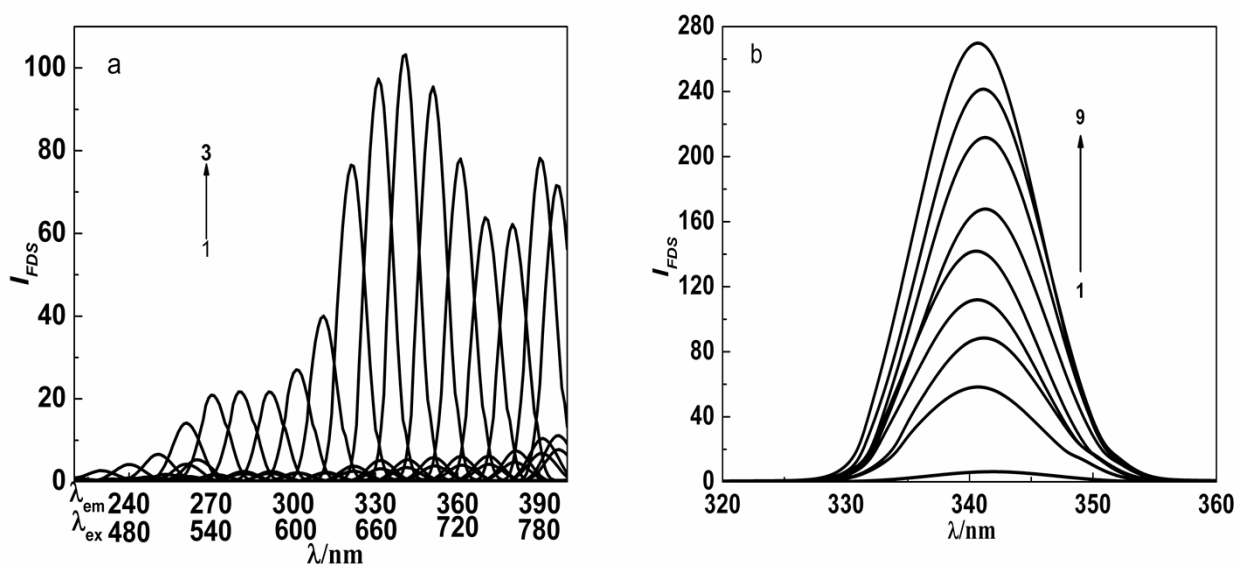


Fig.2. FDS spectra of EMO-EV system

(a) 1EV; 2 EMO; 3 EV-EMO; $C_{EMO}: 1.0 \mu g \cdot mL^{-1}$, $C_{EV}: 1.2 \times 10^{-5} mol \cdot L^{-1}$ (b) EV-EMO system. C_{EMO} (1-8) 0, 0.4, 1.0, 1.5, 2.3, 3.2, 3.8, 4.2, 4.8 $\mu g \cdot mL^{-1}$; $C_{EV}: 1.2 \times 10^{-5} mol \cdot L^{-1}$; pH=7.0

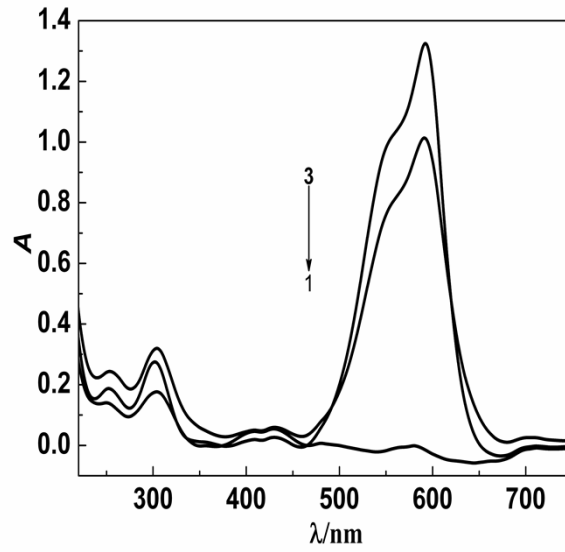


Fig.3. Absorption spectra
 Measured against water blank. 1 EMO; 2 EV; 3 EMO -EV;
 $C_{EMO}: 1.0\mu\text{g} \cdot \text{mL}^{-1}$, $C_{EV}: 1.2 \times 10^{-5} \text{mol} \cdot \text{L}^{-1}$ $C_{EV}: 1.2 \times 10^{-5}$

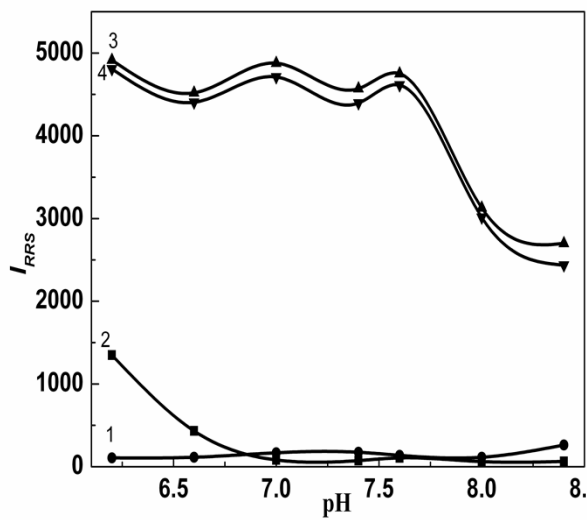


Fig.4. Effect of acidity
 1 I^0 ; 2 I^{EMO} ; 3 I ; 4 ΔI $C_{EMO}: 1.0\mu\text{g} \cdot \text{mL}^{-1}$,
 $C_{EV}: 1.2 \times 10^{-5} \text{mol} \cdot \text{L}^{-1}$

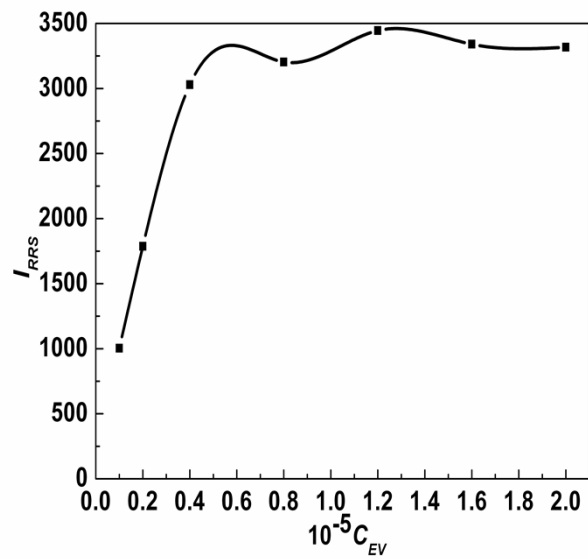


Fig.5. Effect of EV concentration
 $C_{EMO}: 1.0\mu\text{g} \cdot \text{mL}^{-1}$, $\text{pH}=7.0$

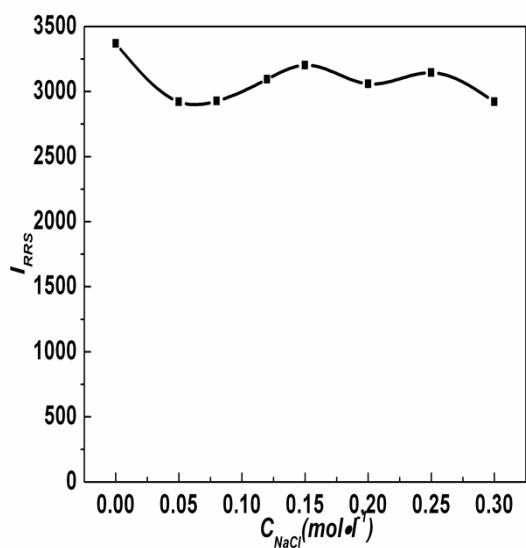


Fig.6. Effect of EV concentration

$C_{\text{EMO}}: 1.0\mu\text{g}\cdot\text{mL}^{-1}$, $\text{pH}=7.0$

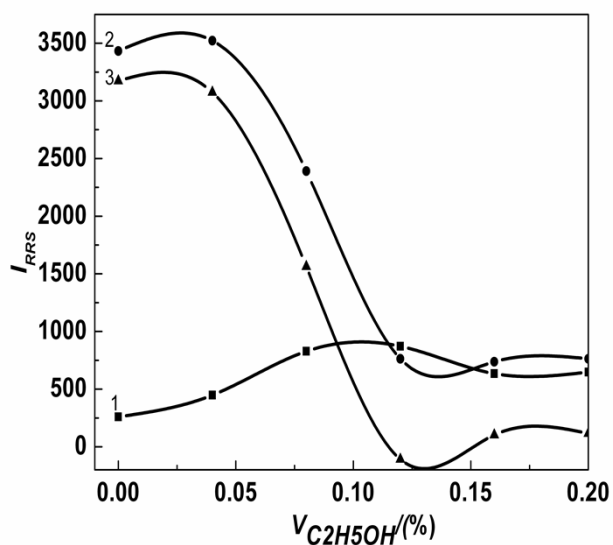


Fig.7. Effect of $\text{C}_2\text{H}_5\text{OH}$ concentration

1 I^{EMO} ; 2 I ; 3 ΔI $C_{\text{EMO}}: 1.0\mu\text{g}\cdot\text{mL}^{-1}$, $C_{\text{EV}}: 1.2\times 10^{-5}\text{mol}\cdot\text{L}^{-1}$ $\text{pH}=7.0$

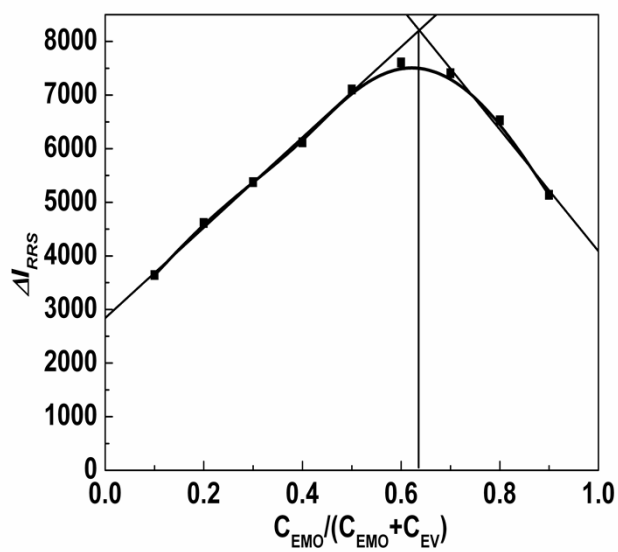
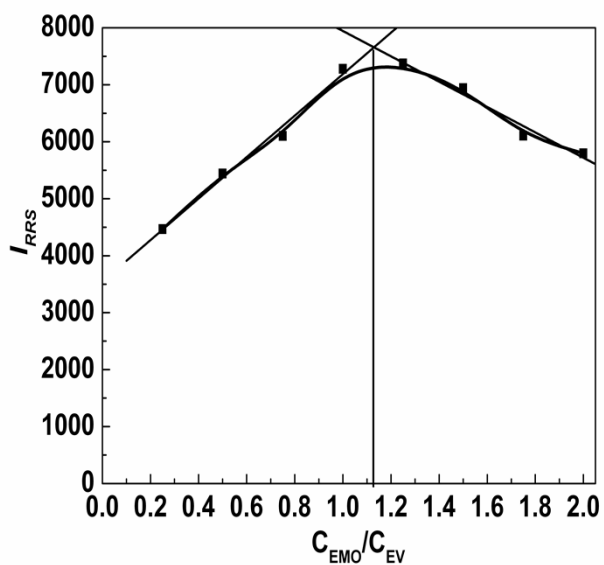


Fig.8. The composition ratio of EMO with EV. $C_{\text{EMO}} = C_{\text{EV}}: 7.4\times 10^{-5}\text{mol}\cdot\text{L}^{-1}$ $\text{pH}=7.0$

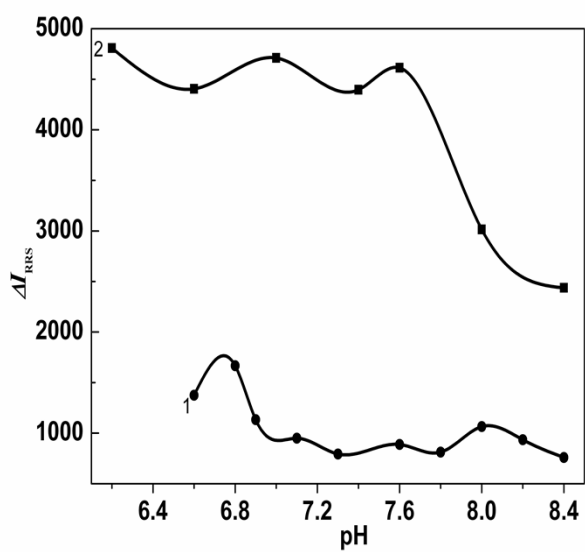


Fig.9. Effect of acidity

1 *CV*; 2 *EV* C_{EMO} : $1.0\mu\text{g}\cdot\text{mL}^{-1}$, C_{EV} : $1.0\times 10^{-5}\text{mol}\cdot\text{L}^{-1}$, C_{CV} : $1.0\times 10^{-5}\text{mol}\cdot\text{L}^{-1}$

A Hitachi F-2500 spectrofluorophotometer (Tokyo, Japan)

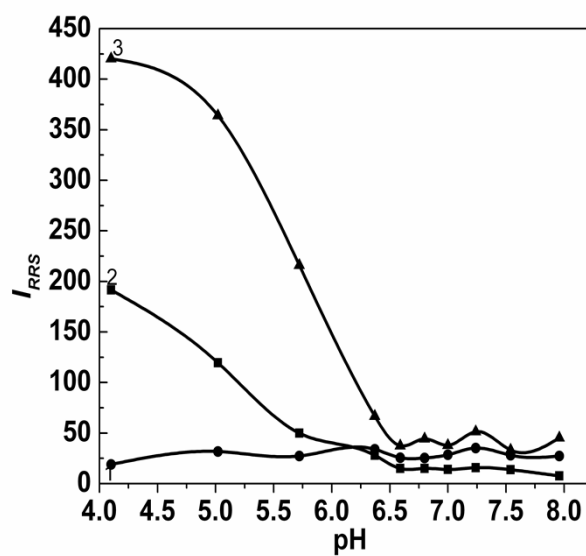


Fig.10. Effect of acidity

1 *MG*; 2 *EMO*; 3 *MG-EMO* C_{EMO} : $1.0\mu\text{g}\cdot\text{mL}^{-1}$, C_{EV} : $1.0\times 10^{-5}\text{mol}\cdot\text{L}^{-1}$, C_{MG} : $1.0\times 10^{-5}\text{mol}\cdot\text{L}^{-1}$

A Hitachi F-4500 spectrofluorophotometer (Tokyo, Japan)