



Fig.1S. Calibration graph of AR-EV system. (a) $\lambda = 341$ nm; (b) $\lambda = 508$ nm; (c) $\lambda = 508$ nm; $C_{EV} = 1.6 \times 10^{-5}$ mol L⁻¹, $C_{AR} = 1.0 \times 10^{-6}, 2.0 \times 10^{-6}, 3.0 \times 10^{-6}, 4.0 \times 10^{-6}, 5.0 \times 10^{-6}$ mol L⁻¹, pH 10.0.

Table 1S Effects of reaction time. ($C_{EV} = 1.6 \times 10^{-5}$ mol L⁻¹, $C_{AR} = 5.0 \times 10^{-6}$ mol L⁻¹, pH 10.0.)

Time (min)	ΔI_{RRS}	Time (min)	ΔI_{RRS}
5	928.7	30	777.1
10	852.0	40	775.8
15	815.6	50	773.5
20	780.3	60	750.9
25	782.7	70	721.4

Table 2S Effects of temperature. ($C_{EV} = 1.6 \times 10^{-5}$ mol L⁻¹, $C_{AR} = 5.0 \times 10^{-6}$ mol L⁻¹, pH 10.0.)

Temperature (°C)	ΔI_{RRS}
10	781.2
20	783.4
30	774.1
40	780.9
50	776.7