Supporting information

Figure Captions

Figure S1. (a) The structure of 1,2-diphenyl-1,2-di(p-tolyl)ethene (TPE); (b) The structure of 1-[4-(3-phenylazophenoxy)butyl]triethyl-amine bromide (AzoC4).

Figure S2. UV-Vis spectra of AzoC4 in water solution.

Figure S3. (a) Fluorescence spectra of pyrene with different [CTAB] ($mg \cdot mL^{-1}$); (b) Plot of fluorescence peak intensity vs. [CTAB]

Figure S4. (a) Fluorescence spectra of TPE with different [SDS]; (b) Plot of fluorescence peak intensity vs. [SDS]

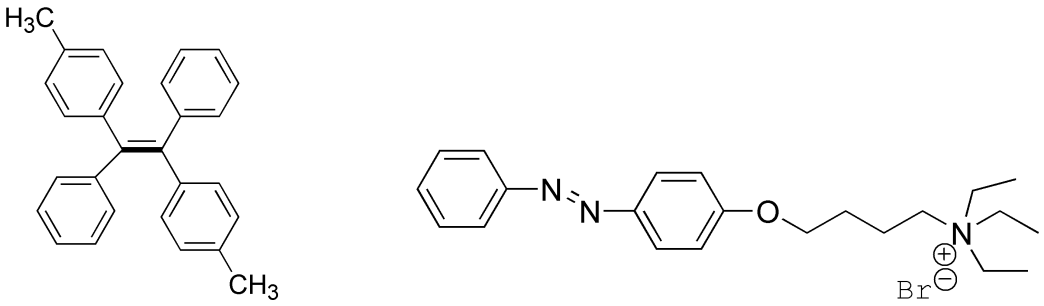
Figure S5. (a) Fluorescence spectra of pyrene with different [SDS]; (b) Plot of fluorescence peak intensity vs. [SDS]

Figure S6. (a) Fluorescence spectra of TPE with different [Chol-PEO]; (b) Plot of fluorescence peak intensity vs. [Chol-PEO]

Figure S7. (a) Fluorescence spectra of pyrene with different [Chol-PEO]; (b) Plot of fluorescence peak intensity vs. [Chol-PEO]

Figure S8. CMT determination of F127 by TPE method. (A)10 $mg \cdot mL^{-1}$ (B)5 $mg \cdot mL^{-1}$ (C)1 $mg \cdot mL^{-1}$ (D) 0.1 $mg \cdot mL^{-1}$.

Table S1. Comparisons between CMT values obtained by TPE method and literature values.



(a) (b)

Figure S1.

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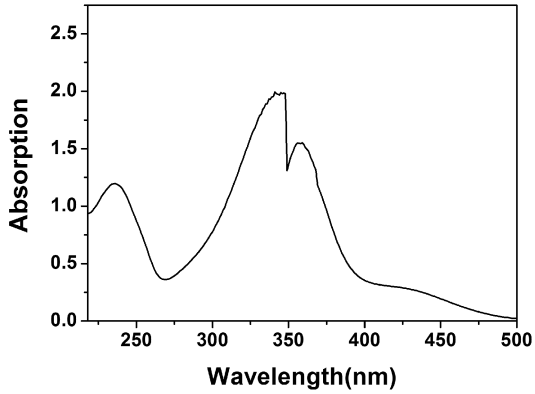

Figure S2.

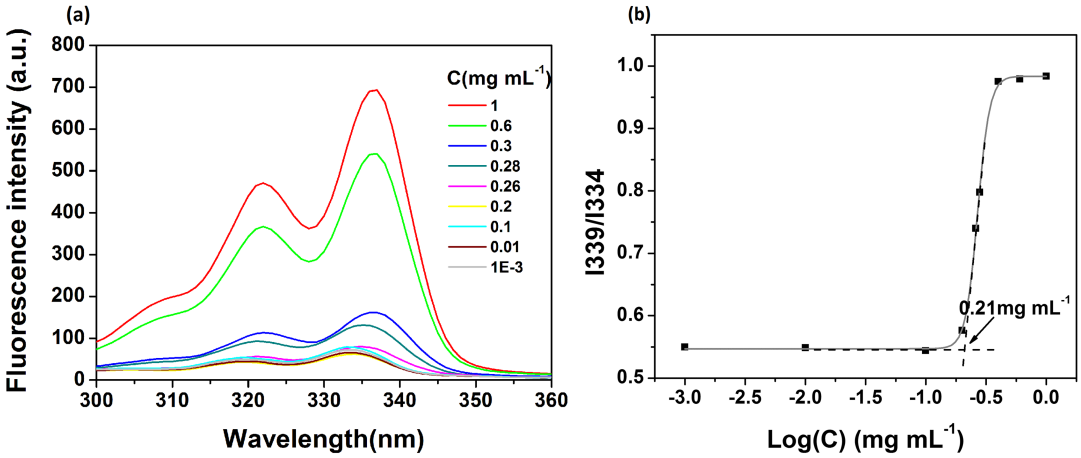

Figure S3.

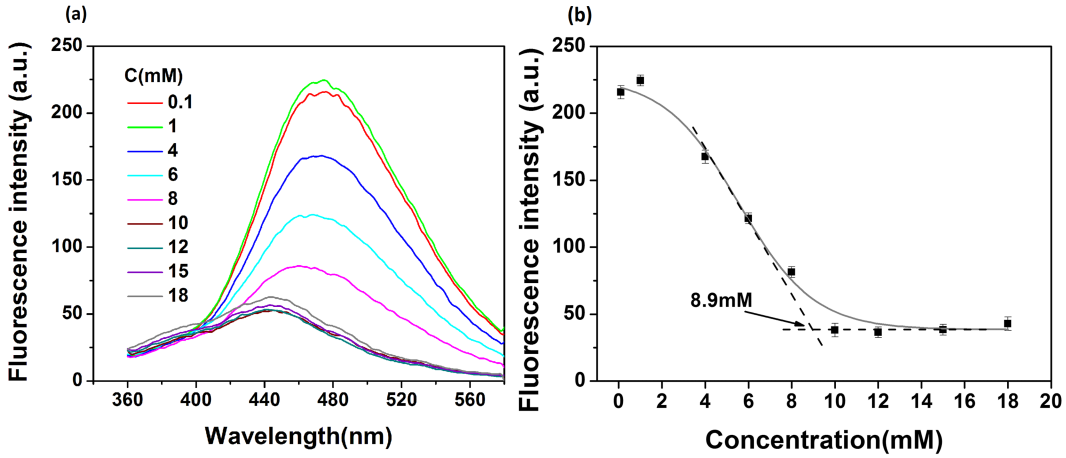

Figure S4.

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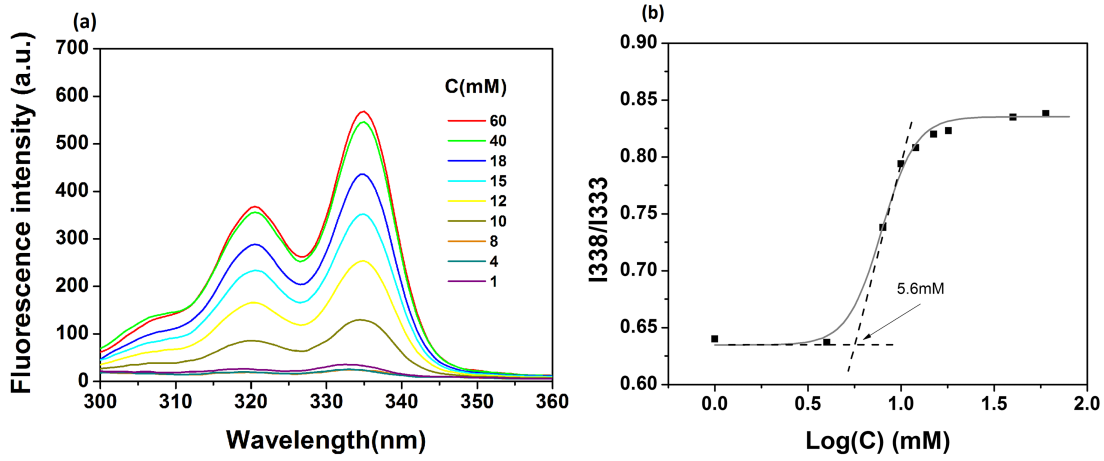

Figure S5.

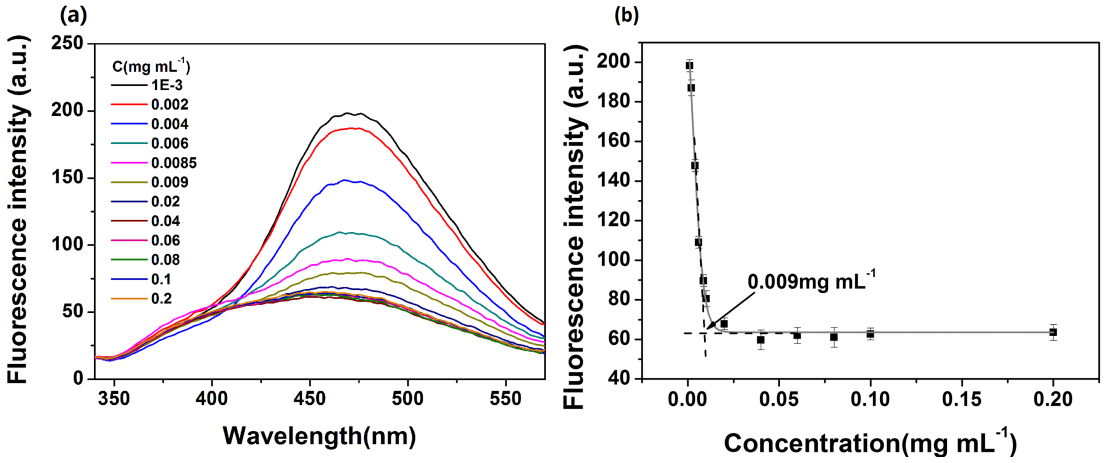

Figure S6.

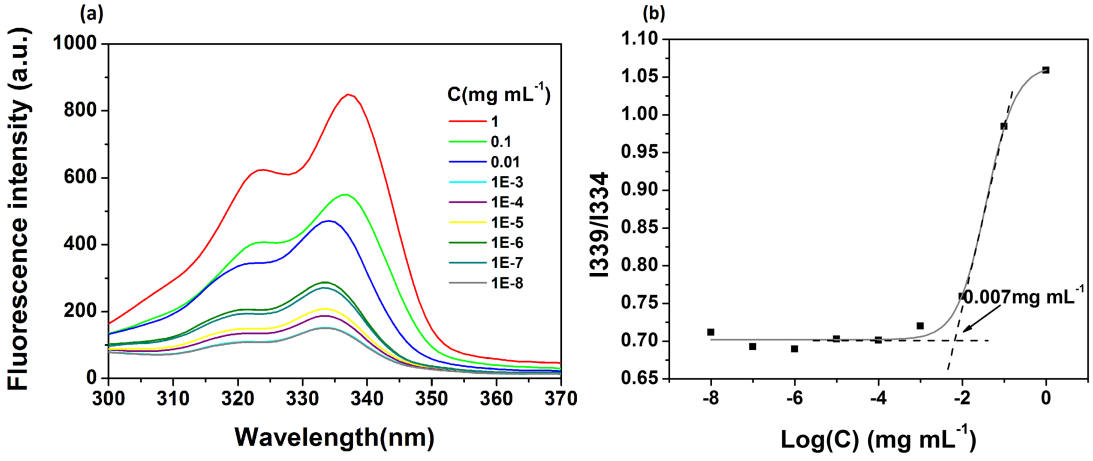

Figure S7.

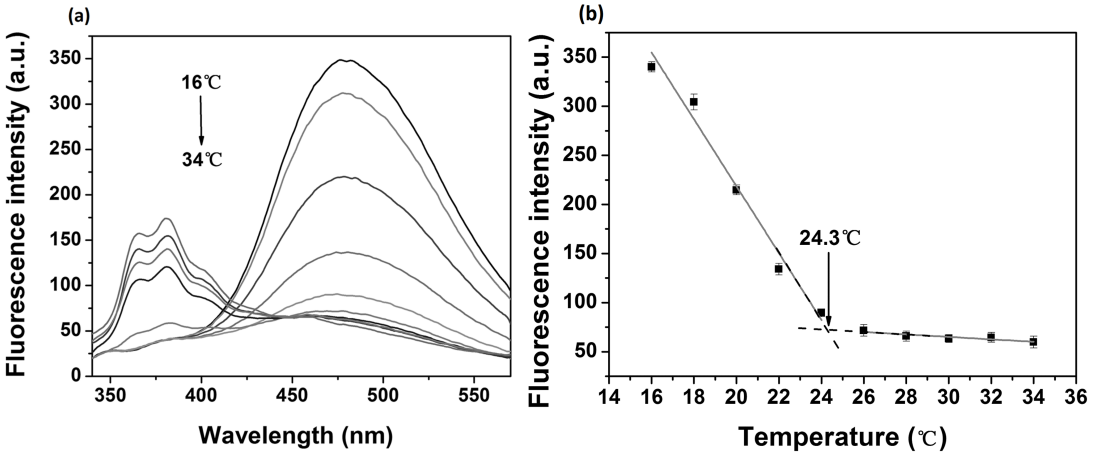

Figure S8 (A)

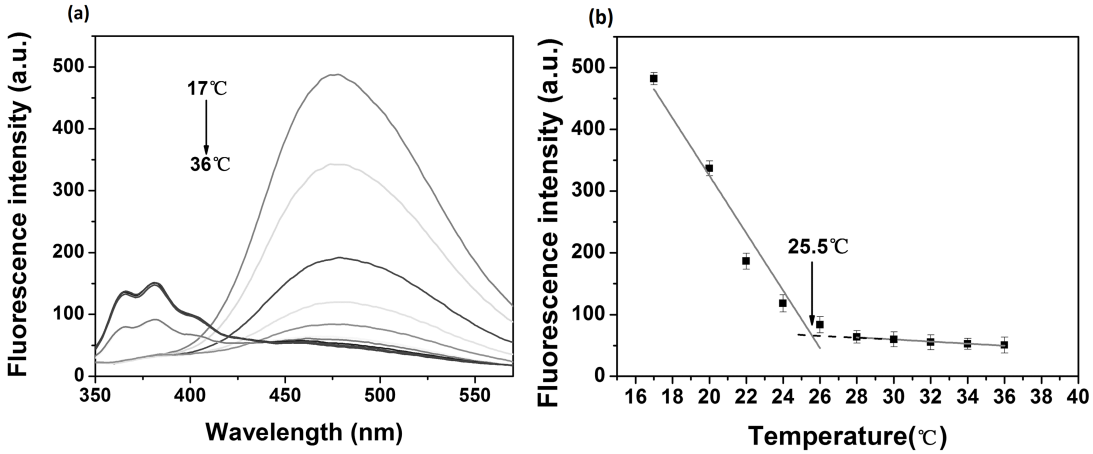

Figure S8 (B)

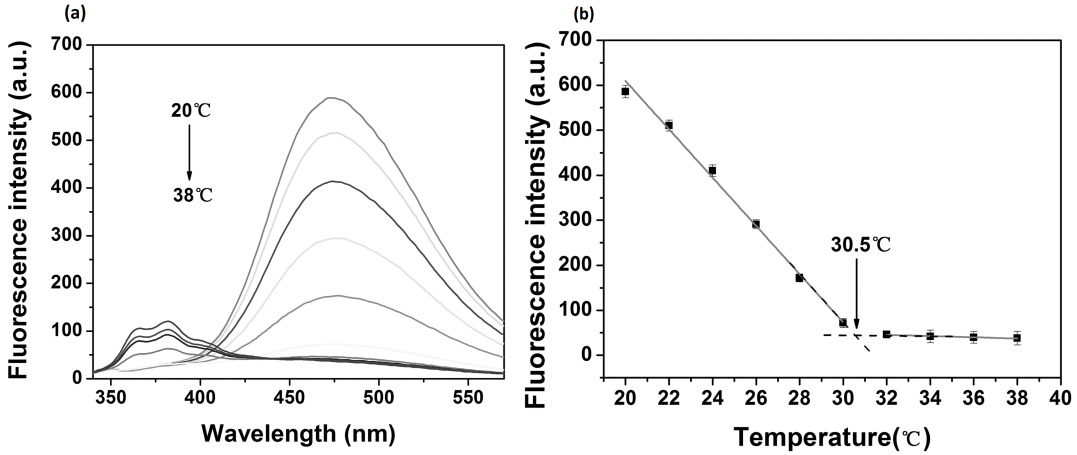

Figure S8 (C)

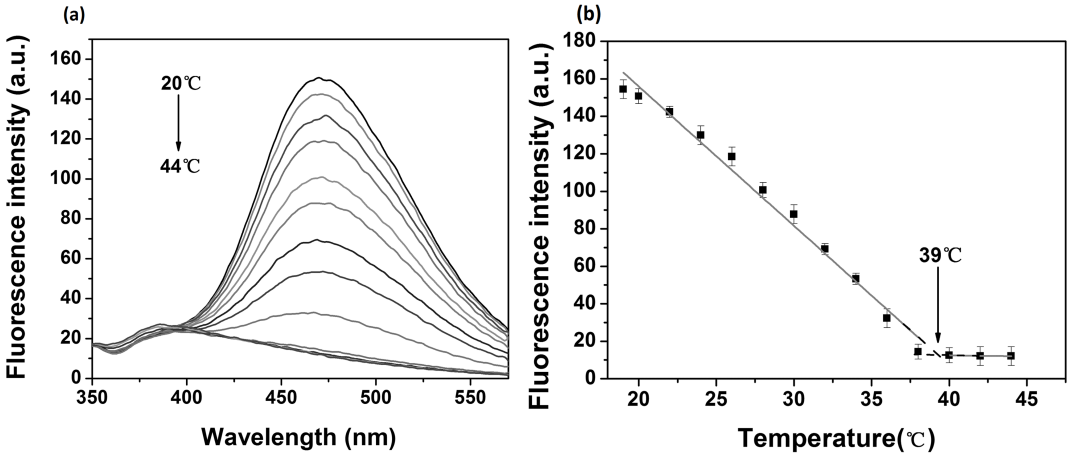

Figure S8 (D)

F127(mg mL^{-1})	10	5	1	0.5	0.1
CMT by TPE(℃)	24.3	25.5	30.5	35	39
Literature values(ref 18)	24.2	25.7	31	33	unreported

Table S1.