

Support Information for

Fluorescence Behavior of an Azobenzene-containing Amphiphilic Diblock Copolymer

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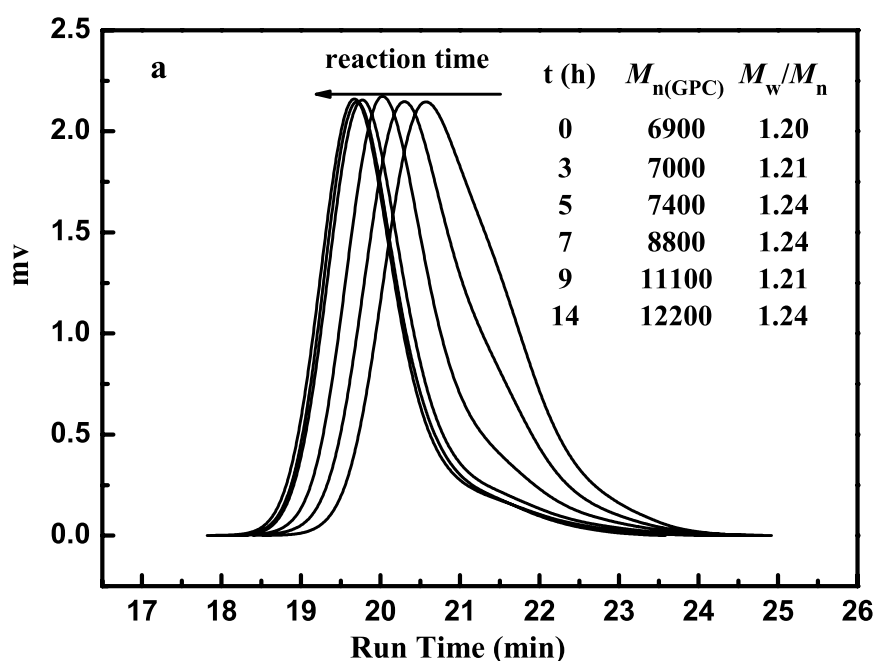


Figure S1. GPC traces of P(PHMA)-*b*-P(PEGMA) prepared by RAFT polymerization of PEGMA at 70 °C in anisole. Polymerization conditions: $[\text{PEGMA}]_0 : [\text{AIBN}]_0 : [\text{macro-RAFT}]_0 = 250 : 1 : 5$, $T = 70\text{ }^\circ\text{C}$, $[\text{PEGMA}]_0 = 3.3\text{ mol/L}$, anisole = 3 mL.

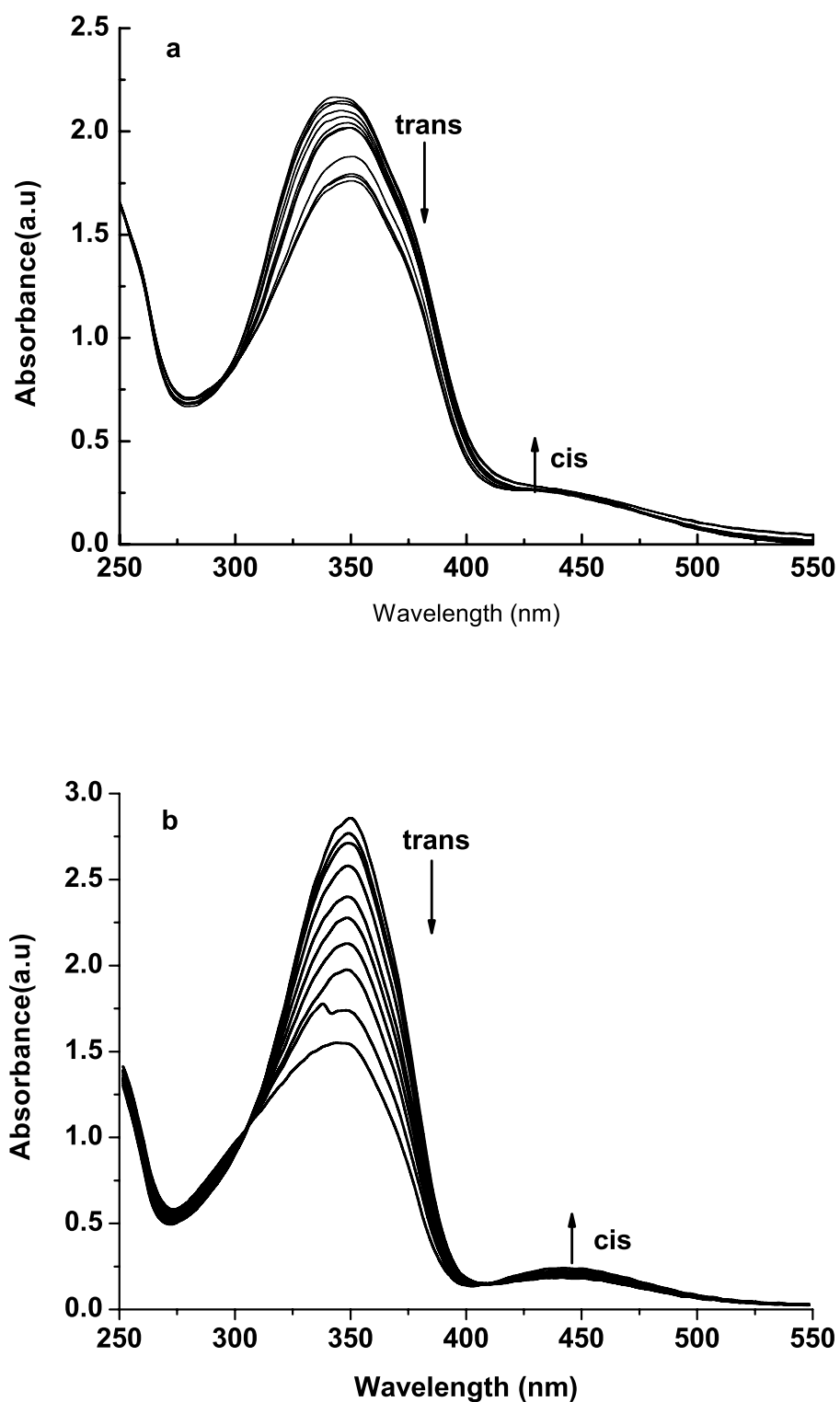


Figure S2. UV-vis spectra of aqueous solution of diblock copolymers $P(\text{PHMA})_{18}\text{-}b\text{-}P(\text{PEGMA})_{14}$ in aqueous solution (a) in THF (b) before and after irradiation at 365 nm.

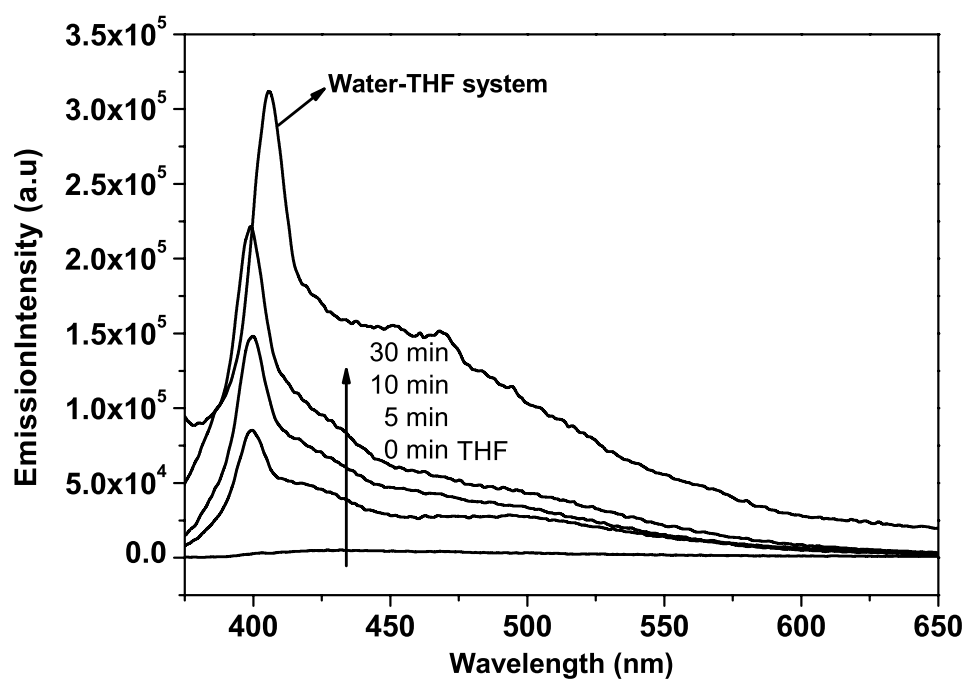


Figure S3. Fluorescent emission spectra of P(PHMA)₁₈-b-P(PEGMA)₄ in THF solution before and after irradiation of 365 nm light for different time accompanied with in water/THF system.

The concentration is 1.5×10^{-5} mol/L

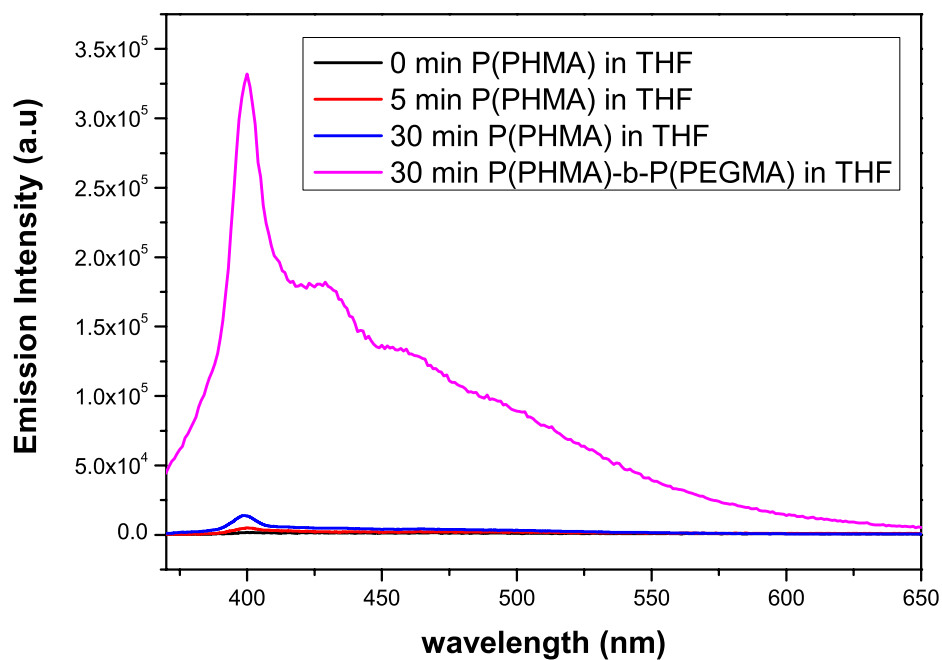


Figure S4. Fluorescent emission spectra of P(PHMA) irradiate at 365 nm for different time compared with P(PHMA)-b-P(PEGMA) in THF solution. The concentration of the solutions were 1.5×10^{-5} M.