Electronic Supplementary Information

Synthesis and host–guest properties of an alternating copolymer containing calix[4]arene and calix[6]arene in its main chain

Tomoki Ogoshi*, Yoko Nishida, Tada-aki Yamagishi and Yoshiaki Nakamoto*

Graduate School of Natural Science and Technology, Kanazawa University, Kakuma-machi, Kanazawa 920-1192, Japan

^{1}H NMR Spectrum of Poly-1

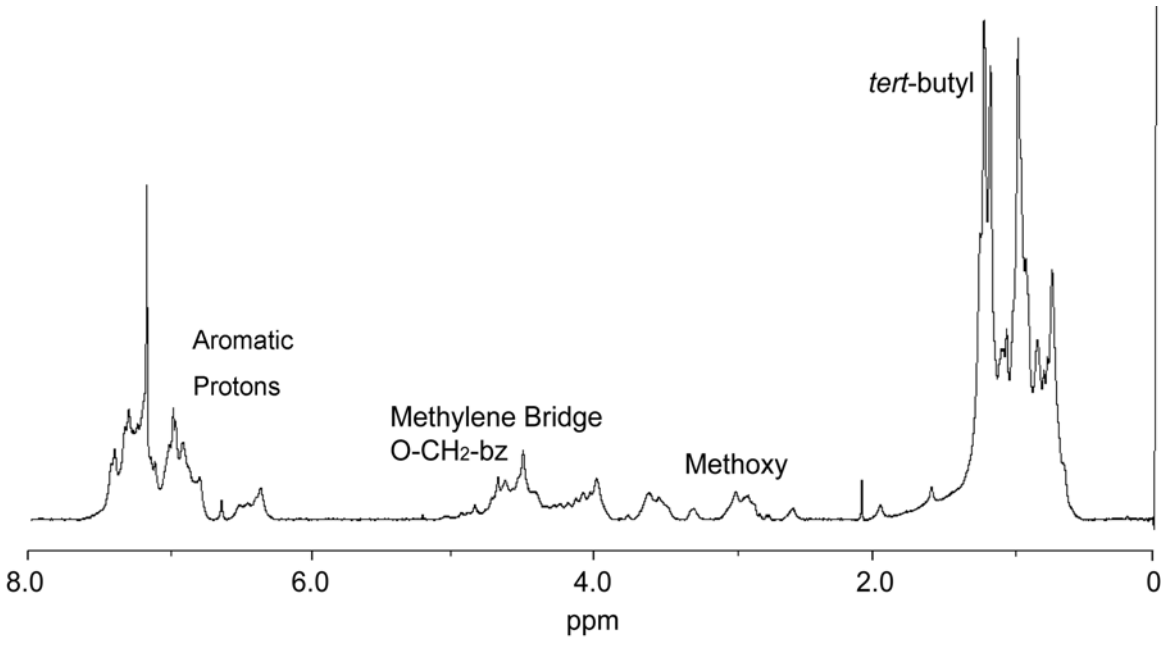

Fig. S1 (a) ^{1}H NMR spectrum of the alternating copolymer (**Poly-1**) in $CDCl_3$.

Emission Spectra of Fluoranthene with 1, 2 and Poly-1

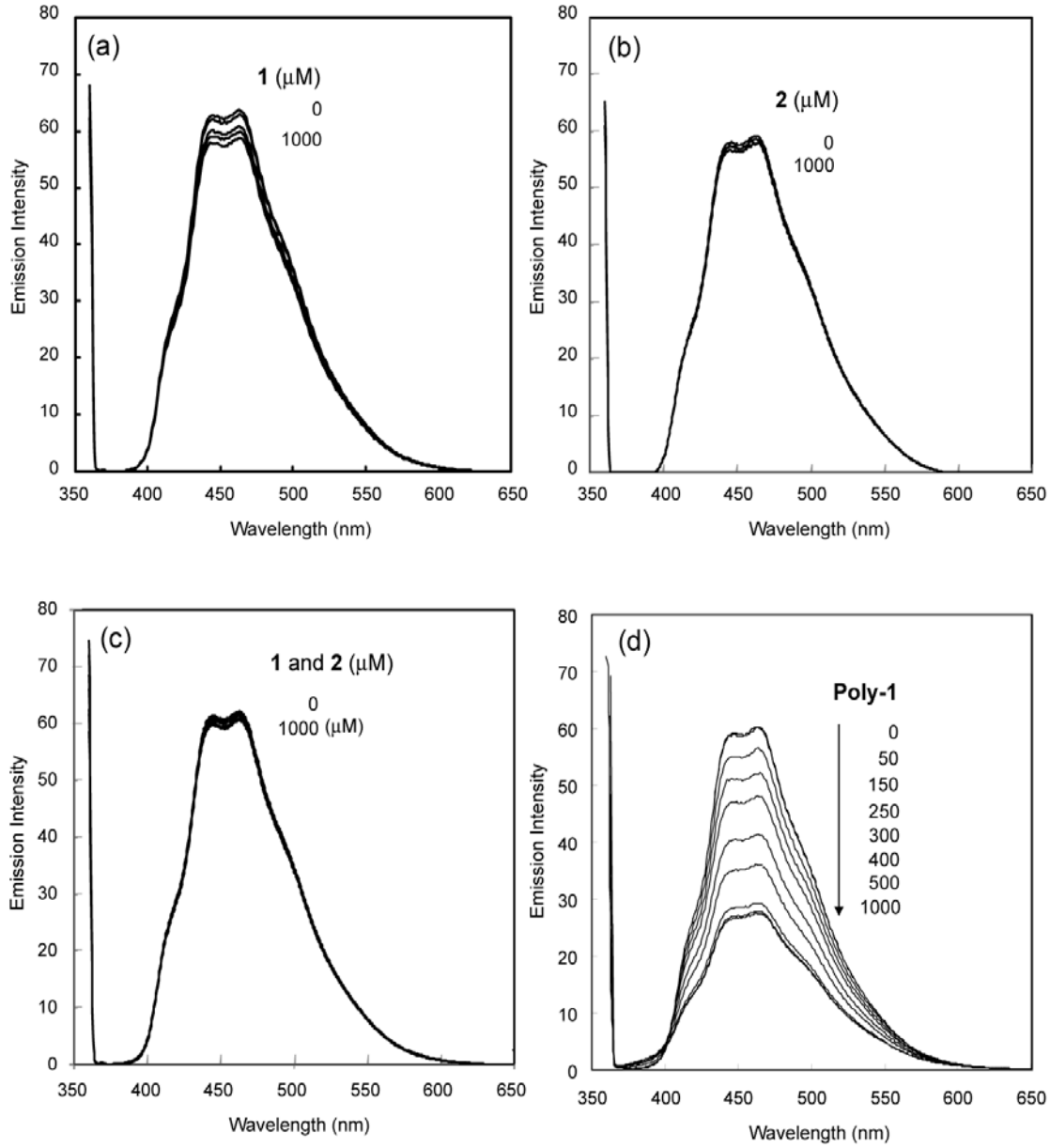

Fig. S2 Emission spectra of fluoranthene (10 μM) upon addition of (a) calix[4]arene model (**1**), (b) calix[6]arene model (**2**), (c) both **1** and **2** and (d) **Poly-1** in chloroform (excited at 360 nm).

Stern-Volmer Plots

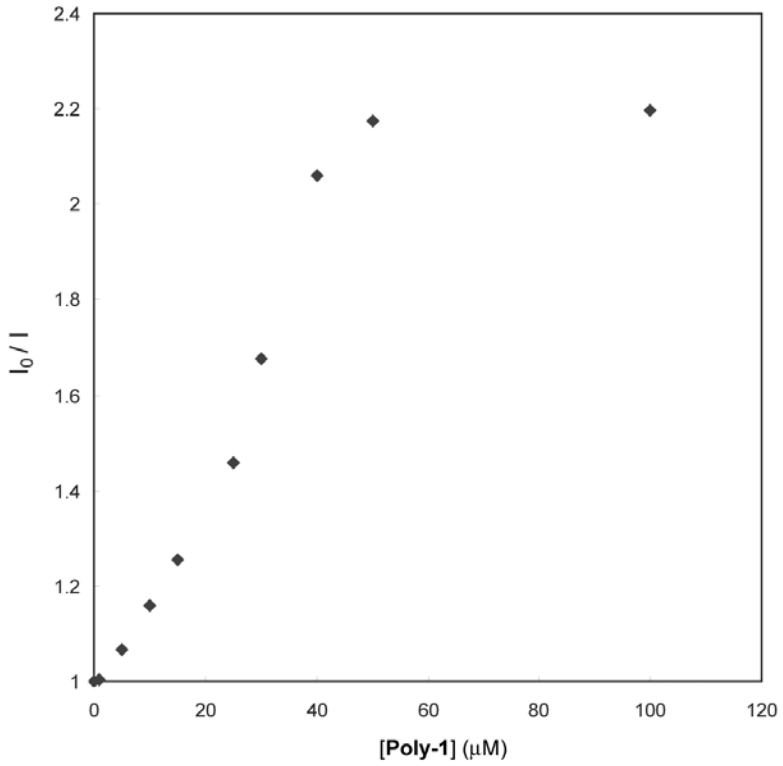

Fig. S3 Stern–Volmer plots for fluorescence quenching of fluoranthene (10 mM) in chloroform by **Poly-1**. Fluoranthene was excited at 360 nm. The fluorescence intensities were monitored at 462 nm.