10.1071/CH03008_AC

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Accessory Material

The formation of fluorescent alkali metal and alkaline earth complexes by 1-phenyl-4-(2-{10-[2-(4-phenylpiperazino)ethyl]-9-anthryl}ethyl)piperazine and alkaline earth complexes by 4-{2-[10-(2-morpholinoethyl)-9-anthryl]ethyl}thiomorpholine in acetonitrile

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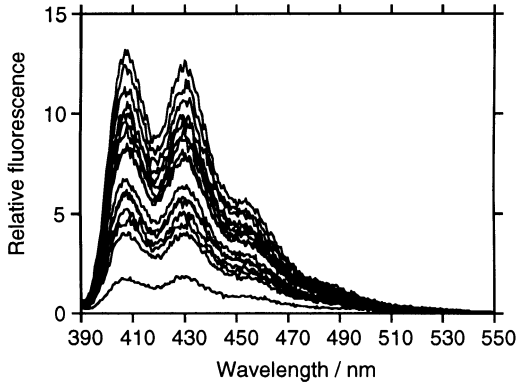

Fig. S1. The increase in emission of (1) (3.00×10^{-6} mol dm^{-3}) with $[Na^+]_{total}$ (1.00×10^{-5}-5.00×10^{-3} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 378 nm. The lowest emission spectrum is that of (1) alone.

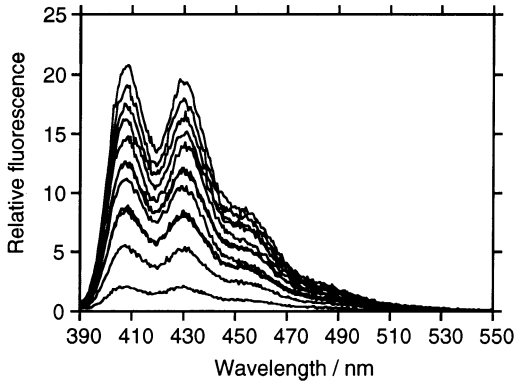

Fig. S2. The increase in emission of (1) (3.00×10^{-6} mol dm^{-3}) with [K^+] (5.00×10^{-5}-5.00×10^{-3} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 377 nm. The lowest emission spectrum is that of (1) alone.

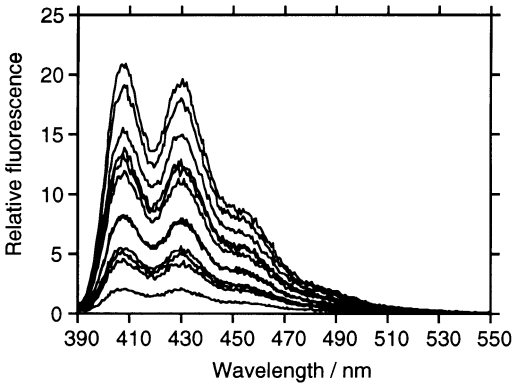

Fig. S3. The increase in emission of (1) (3.00×10^{-6} mol dm^{-3}) with [Rb^+] (5.00×10^{-5}-4.00×10^{-3} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 377 nm. The lowest emission spectrum is that of (1) alone.

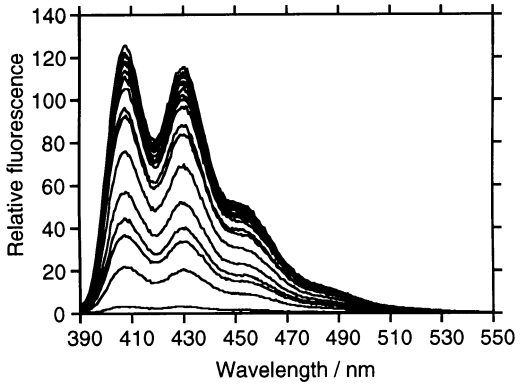

Fig. S4. The increase in emission of (1) (3.00×10^{-6} mol dm^{-3}) with [Mg^{2+}] (1.00×10^{-6}-1.00×10^{-4} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 379 nm. The lowest emission spectrum is that of (1) alone.

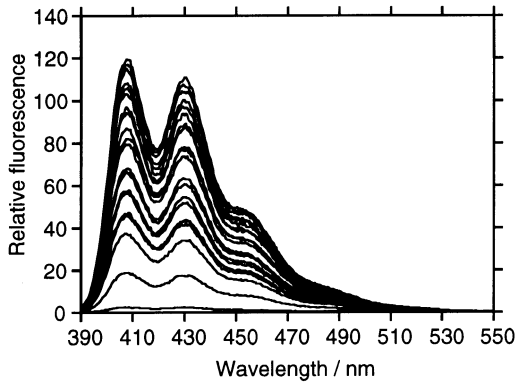

Fig. S5. The increase in emission of (1) (3.00×10^{-6} mol dm^{-3}) with [Sr^{2+}] (1.00×10^{-6}-3.00×10^{-3} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 377 nm. The lowest emission spectrum is that of (1) alone.

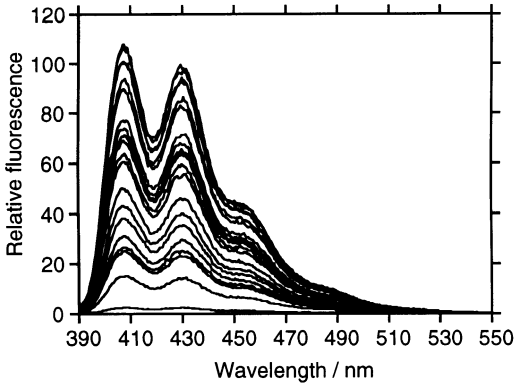

Fig. S6. The increase in emission of (1) (3.00×10^{-6} mol dm^{-3}) with [Ba^{2+}] (1.00×10^{-6}-3.00×10^{-3} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 377 nm. The lowest emission spectrum is that of (1) alone.

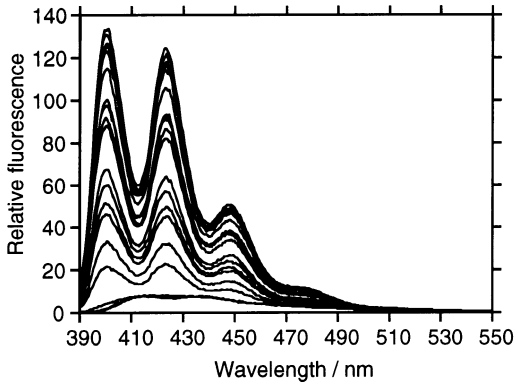

Fig. S7. The increase in emission of (2) (3.00×10^{-6} mol dm^{-3}) with [Mg^{2+}] (1.00×10^{-6}-3.00×10^{-3} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 377 nm. The lowest emission spectrum is that of (2) alone.

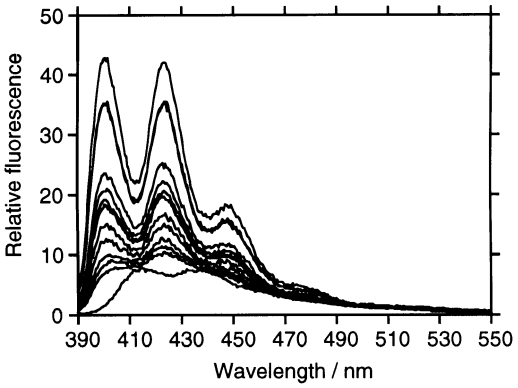

Fig. S8. The increase in emission of (2) (3.00×10^{-6} mol dm^{-3}) with [Sr^{2+}] (1.00×10^{-5}-6.00×10^{-3} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 377 nm. The lowest emission spectrum is that of (2) alone.

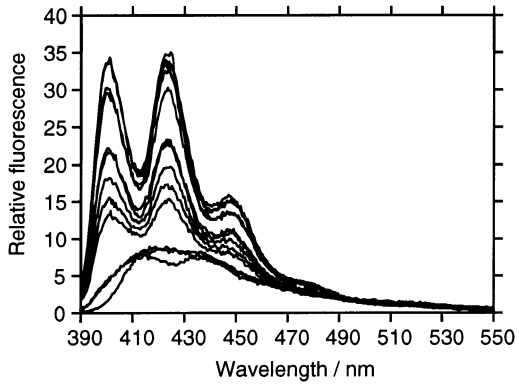

Fig. S9. The increase in emission of (2) (3.00×10^{-6} mol dm^{-3}) with [Ba^{2+}] (5.00×10^{-5}-6.00×10^{-3} mol dm^{-3}) in acetonitrile at I = 0.05 mol dm^{-3} (NEt_4ClO_4) and 298.2 K when excited at 377 nm. The lowest emission spectrum is that of (2) alone.