

Supplementary information of
Ferrocene-Containing [1]-, [2]-, [3]- and [4]Rotaxanes
Synthesized from a Common Precursor

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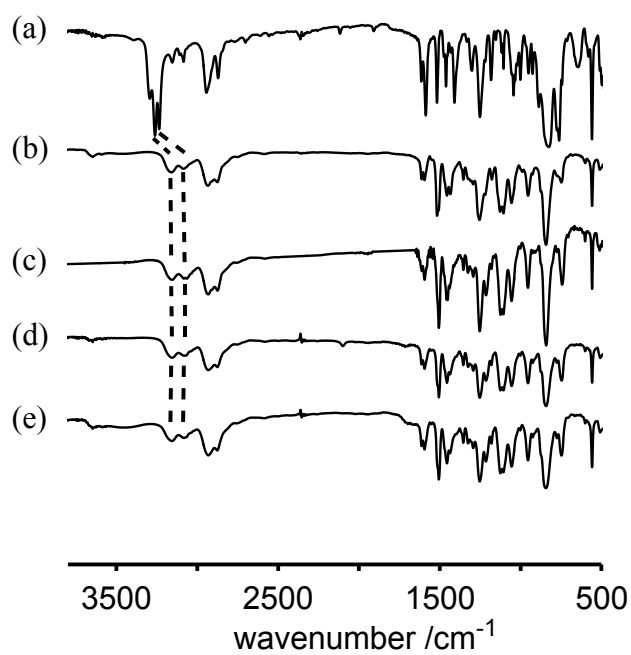


Figure S1, IR spectra of (a) **[5]**PF₆, (b) **[1]**PF₆, (c) **[2]**PF₆, (d) **[3]**(PF₆)₂, and (e) **[4a]**(PF₆)₃ (KBr pellet, 25 °C).

Table S1. Electrochemical data of rotaxanes.^{a)}

Compound	E_{pa} / V	E_{pc} / V	$E_{1/2} (\Delta E)^{\text{b}} / \text{V}$	Peak current, I_{pa}
[1]PF ₆	0.22	0.14	0.18 (0.08)	-4.5 μA
[2]PF ₆	0.23	0.13	0.18 (0.10)	-4.1 μA
[3](PF ₆) ₂	0.20	0.13	0.17 (0.07)	-8.8 μA
[4a](PF ₆) ₃	0.20	0.12	0.16 (0.08)	-11.5 μA

[a] See Figure 3 in main text for CVs. Potentials are referenced to ferrocene⁺/ferrocene. Sweep rate: 0.10 V s⁻¹.

[b] $\Delta E = E_{\text{pa}} - E_{\text{pc}}$.