

Supplementary Information

Photoinduced Electron Transfer upon Supramolecular Complexation of (Porphyrinato)Sn-Viologen with Cucurbit[7]uril

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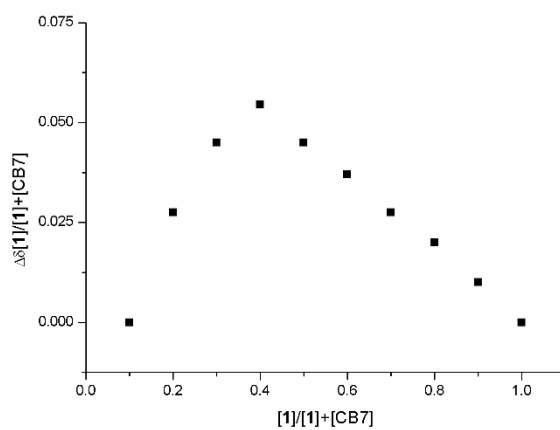


Figure S1. Job's plot of **1** ($c = 2 \text{ mM}$, $\Delta\delta$ of α protons from the $N\text{-CH}_3$ end of bipyridinium moiety of **1**) with CB[7], showing that the maximum $\Delta\delta$ at 1:2 complexation.

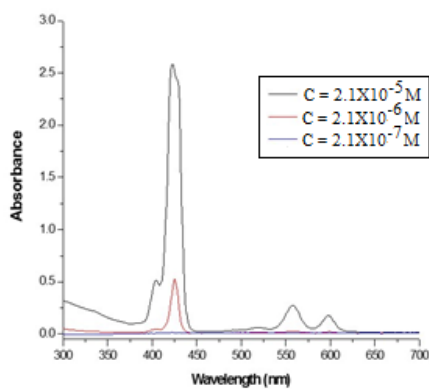
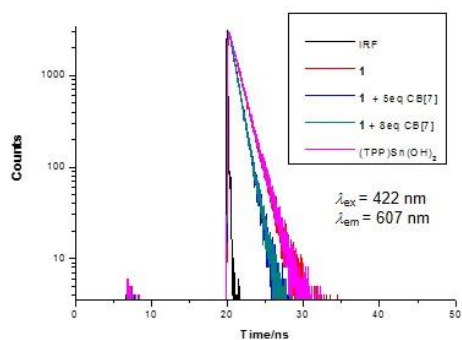
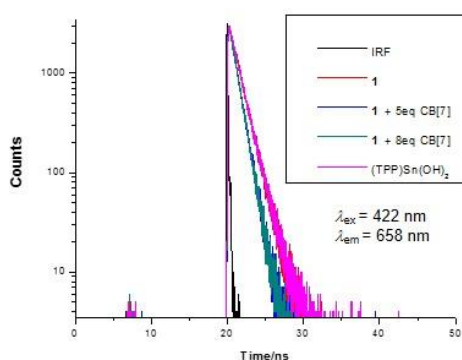


Figure S2. UV-Visible absorption spectra of **1** in DMSO at various concentrations.



$\lambda_{\text{monitoring}} = 607 \text{ nm (0-1 vibronic emission)}$	$\tau_1(\text{ns}) (\%)$	χ
1	1.31 (100)	1.102
1 + 5eq CB[7]	0.92 (100)	0.954
1 + more than 5eq CB[7]	0.92 (100)	0.979
(TPP)Sn(OH)₂	1.32 (100)	1.130



$\lambda_{\text{monitoring}} = 658 \text{ nm (0-1 vibronic emission)}$	$\tau_1(\text{ns}) (\%)$	χ
1	1.28 (100)	1.086
1 + 5eq CB[7]	0.93 (100)	0.978
1 + more than 5eq CB[7]	0.94 (100)	1.018
(TPP)Sn(OH)₂	1.29 (100)	1.257

Figure S3. Fluorescence decay profiles of **1** and **1***CB[7] in DMSO ($c = 2.1 \times 10^{-6} \text{ M}$). For comparison, (TPP)Sn(OH)₂ (black) also included. Fluorescence decay times obtained by analysis of the decay profiles are summarized in Tables.