Supporting Information

Cucurbituryl Complexes of Viologens Bound to TiO_2 Films

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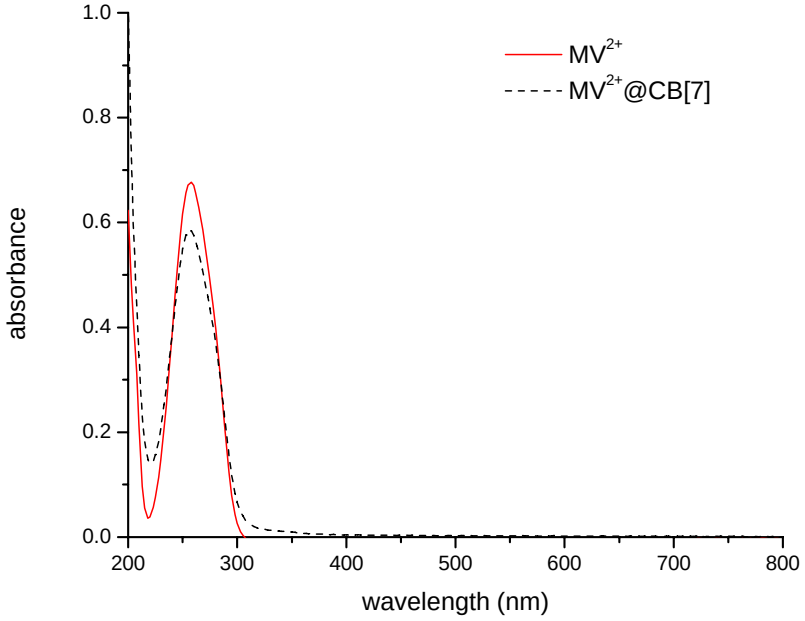

Figure S1. Absorption spectra of MV^{2+} and MV^{2+}@CB[7] in aqueous solutions.

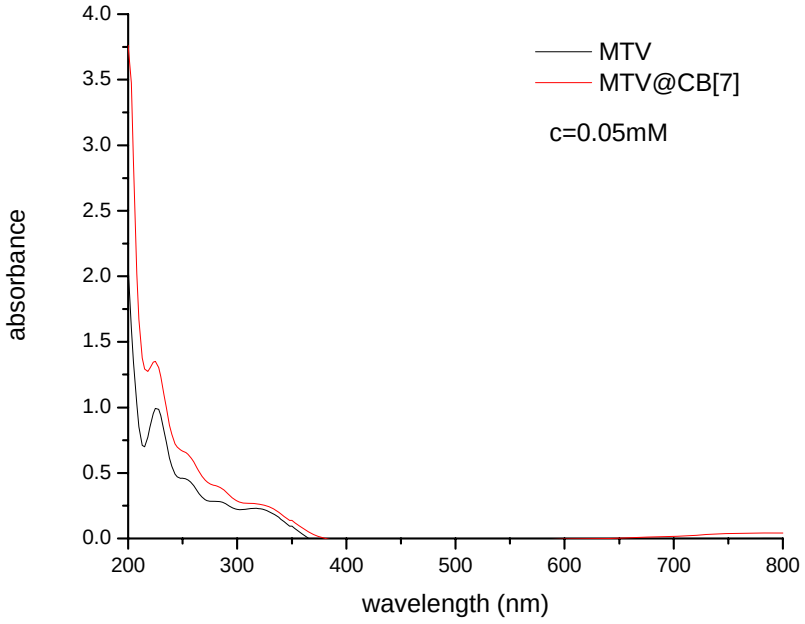

Figure S2. Absorption spectra of MTV^{2+} and MTV^{2+}@CB[7] in aqueous solutions.

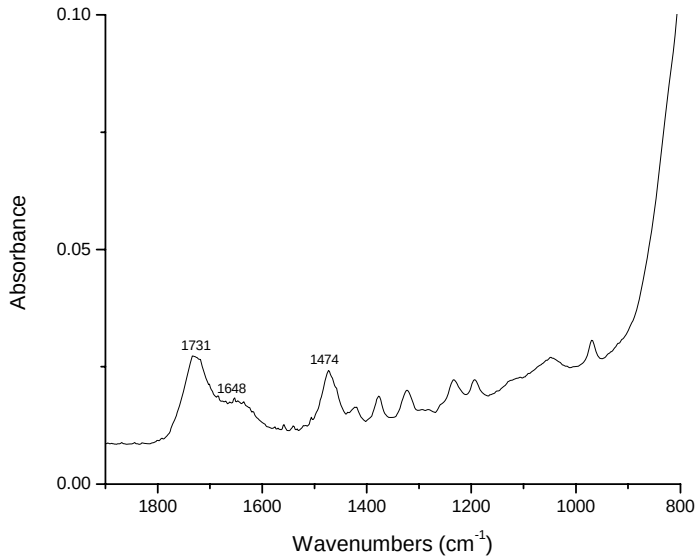

Figure S3. FT-IR-ATR of CB[7]

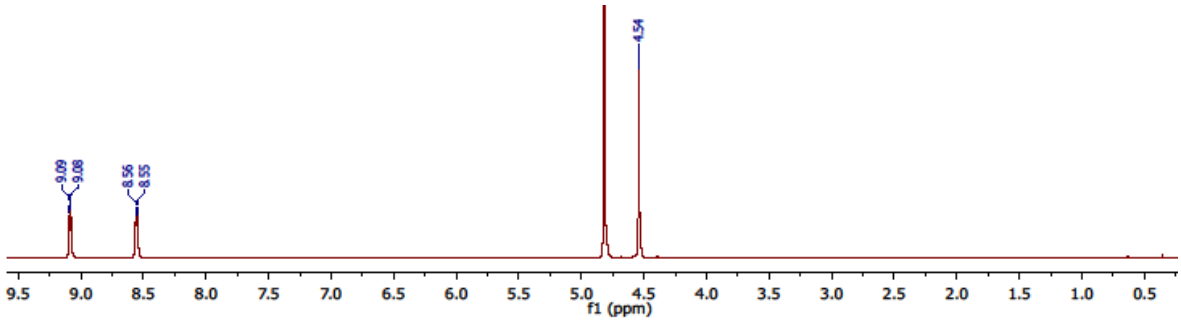

Figure S4. ^{1}H NMR of metylviologen dicloride (MV^{2+}, **1**) in D_2O.

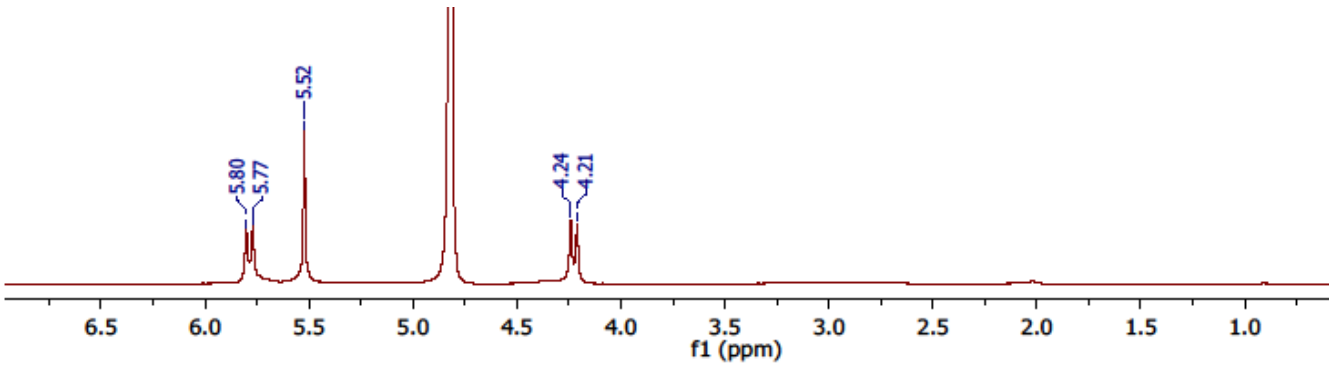

Figure S5. ^{1}H NMR of Cucur[7]bituril (CB[7]) in D_2O.

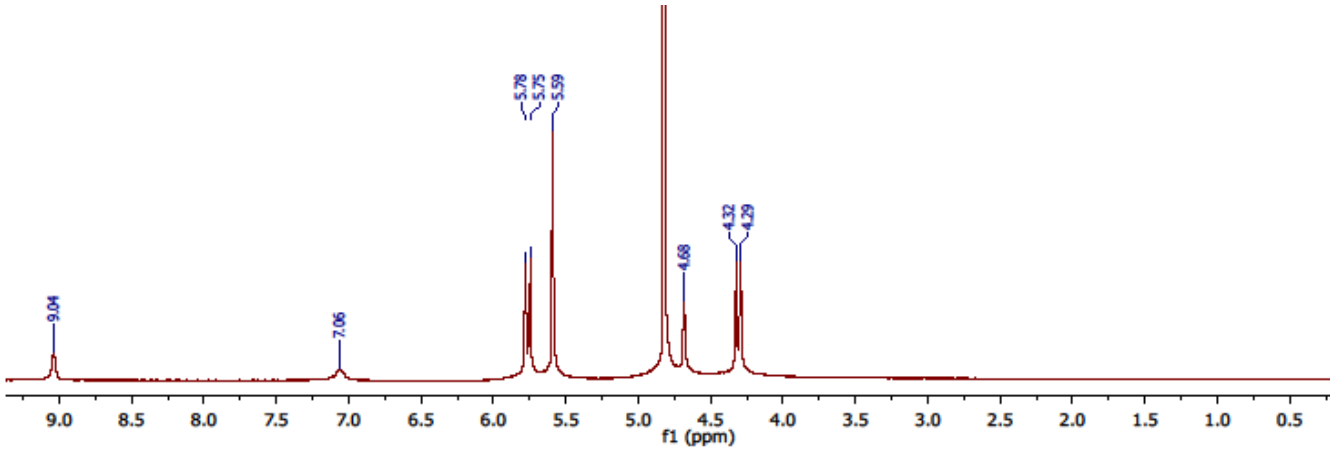

Figure S3. ^{1}H NMR of MV^{2+}@CB[7] in D_2O.

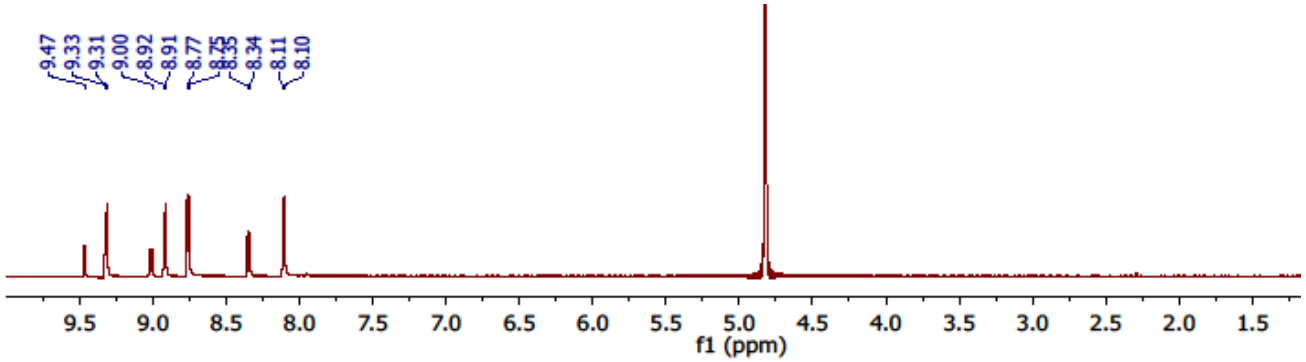

Figure S4. ^{1}H NMR of 1-(2,4-dinitrophenyl)-4-(pyridin-4-yl) pyridinium chloride (**3**) in D_2O.

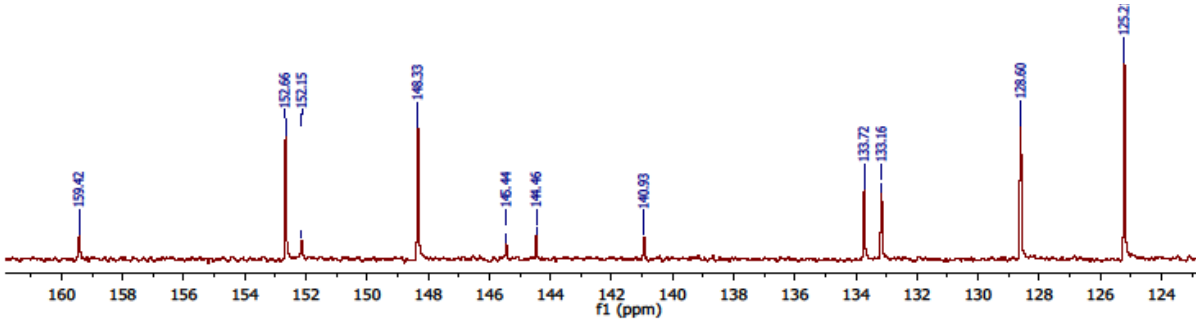

Figure S7. ^{13}C NMR of 1-(2,4-dinitrophenyl)-4-(pyridin-4-yl) pyridinium chloride (**3**) in D_2O.

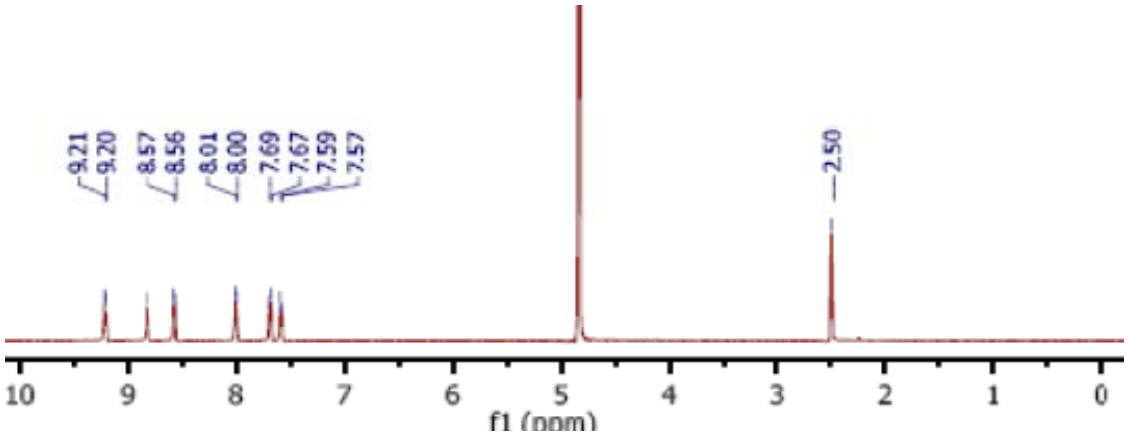

Figure S8. ^{1}H NMR of 4-(pyridin-4-yl)-1-*p*-tolylpyridinium chloride (**4**) in D_2O.

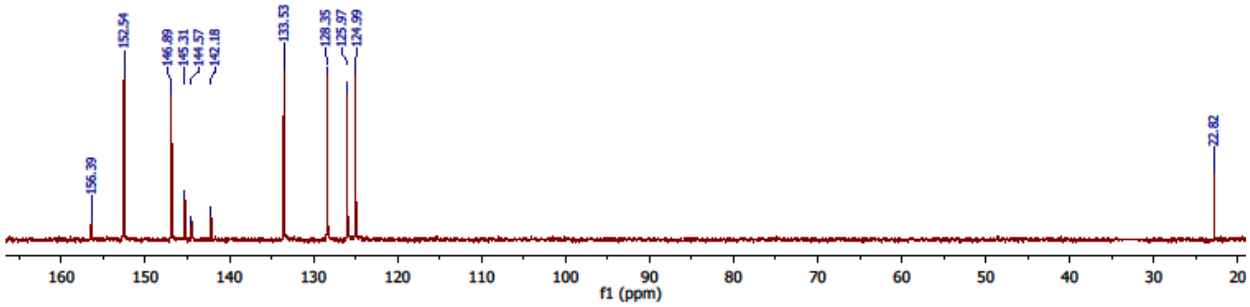

Figure S9. ^{13}C NMR of 4-(pyridin-4-yl)-1-*p*-tolylpyridinium chloride (**4**) in D_2O.

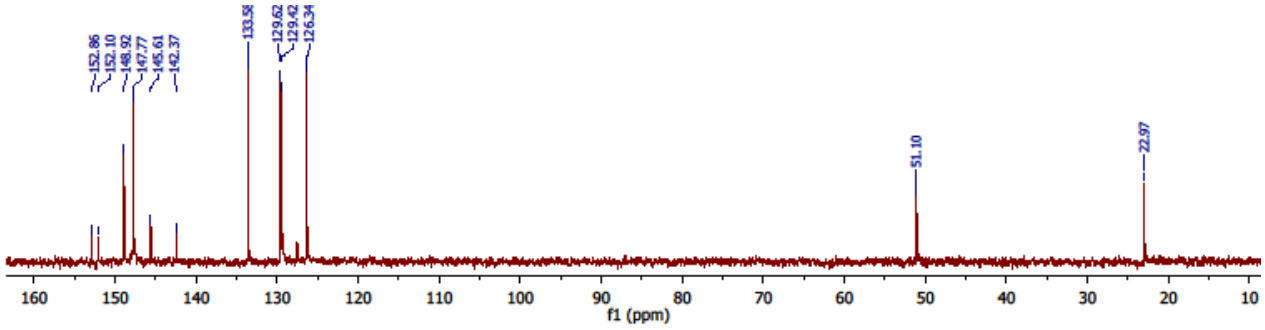

Figure S10. ^{13}C NMR of MTV^{2+} (**2**) in D_2O.

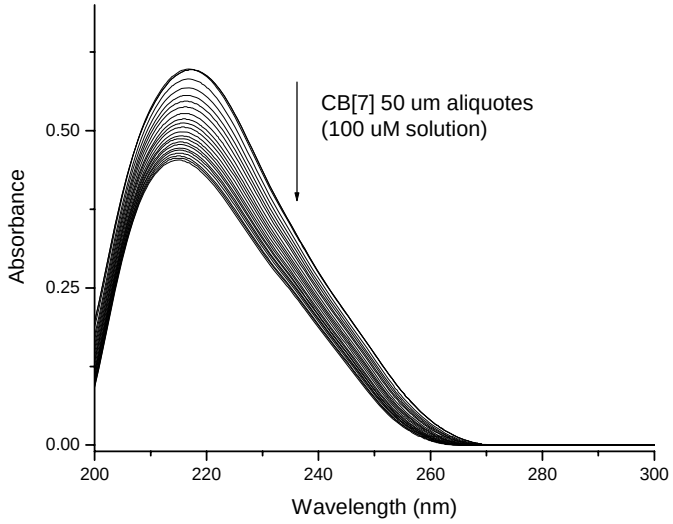

Figure S11. Changes in the absorption spectra of a 1000 µl aqueous solution (0.1 M phosphate buffer) of 30 µM MTV^{2+} upon addition of 50 µl aliquotes of a 100 µM aqueous solution of CB[7].

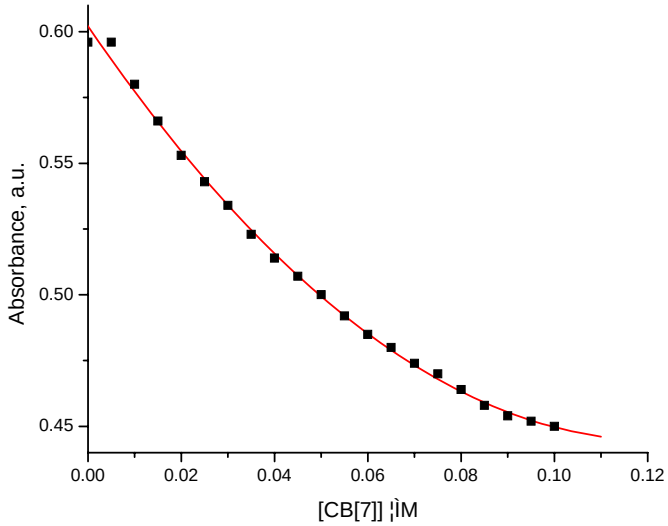

Figure S12. Fitted (red solid line) experimental data (squares) of absorbance of MTV^{2+} at 218 nm against concentration of CB[7] (see Figure S11)

Click on the Icon for Movie of Color Changes in Electrochromic Windows prepared from MTV^{2+}@CB[7] (real time).

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