

Interligand Charge-Transfer Processes in Zinc Complexes

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Supplementary Materials

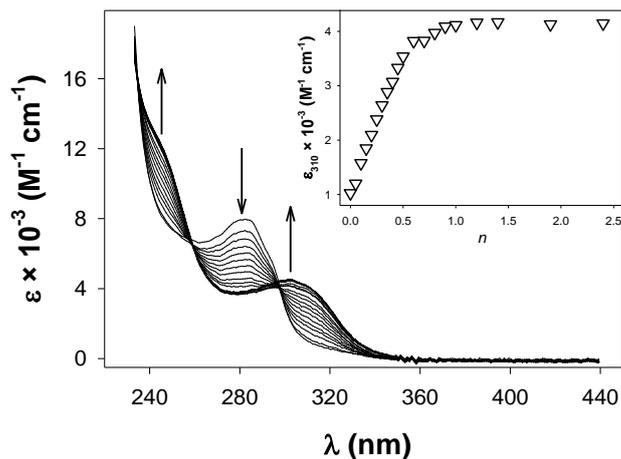


Figure S1. Absorption spectra recorded during the titration of a MeCN solution of **3b** (10^{-5} M) with zinc(II) ion. Titration profile in the inset (n = equiv of Zn^{II} ion/equiv of **3b**).

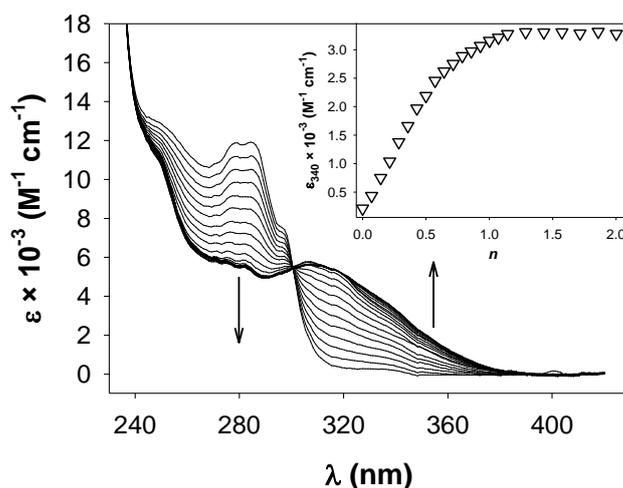


Figure S2. Absorption spectra recorded during the titration of a MeCN solution of **4a** (10^{-5} M) with zinc(II) ion. In the inset, titration profile shows the formation of a 1:1 adduct (n = equiv of Zn^{II} ion/equiv of **4a**).

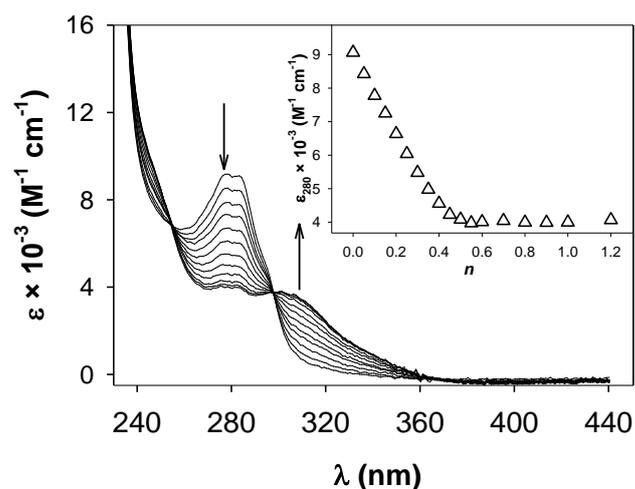


Figure S3. Absorption spectra recorded during the titration of a MeCN solution of **4b** (10^{-5} M) with zinc(II) ion. In the inset, titration profile shows the formation of a 1:1 adduct (n = equiv of Zn^{II} ion/equiv of **4b**).

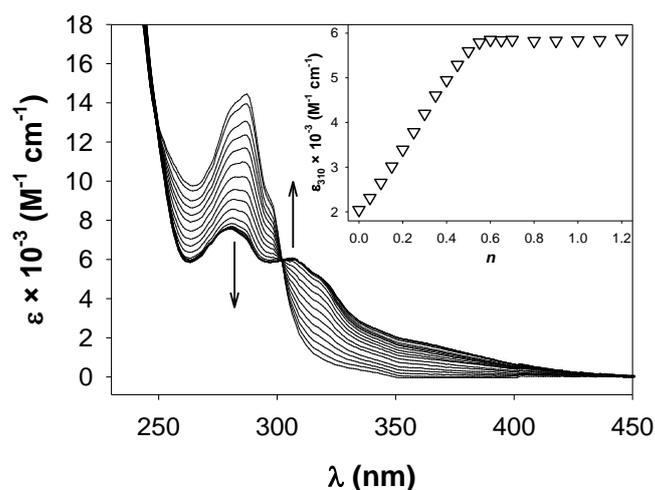


Figure S4. Absorption spectra recorded during the titration of a MeCN solution of **5a** (10^{-5} M) with zinc(II) ion. In the inset, titration profile shows the formation of a 1:1 adduct (n = equiv of Zn^{II} ion/equiv of **5a**).

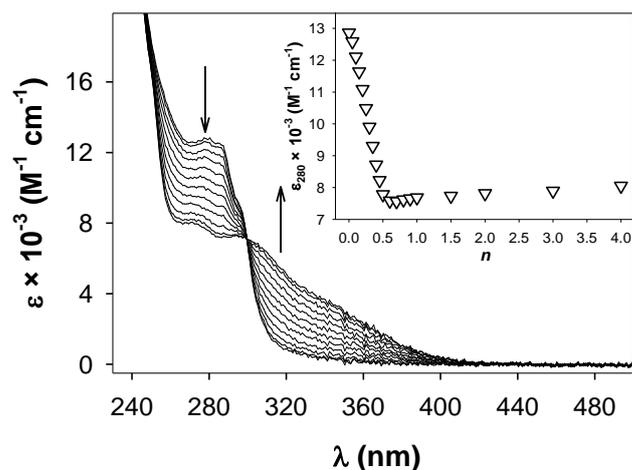


Figure S5. Absorption spectra recorded during the titration of a MeCN solution of **6a** (10^{-5} M) with zinc(II) ion. In the inset, titration profile shows the formation of a 1:1 adduct ($n =$ equiv of Zn^{II} ion/equiv of **6a**).

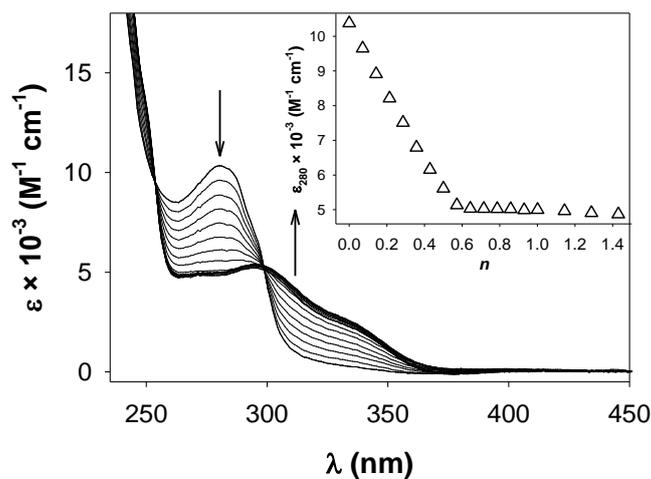


Figure S6. Absorption spectra recorded during the titration of a MeCN solution of **6b** (10^{-5} M) with zinc(II) ion. In the inset, titration profile shows the formation of a 1:1 adduct ($n =$ equiv of Zn^{II} ion/equiv of **6b**).

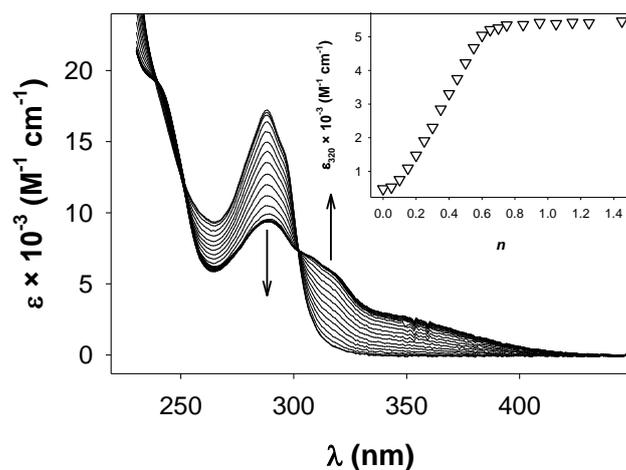


Figure S7. Absorption spectra recorded during the titration of a MeCN solution of **8a** (10^{-5} M) with zinc(II) ion. In the inset, titration profile shows the formation of a 1:1 adduct (n = equiv of Zn^{II} ion/equiv of **8a**).

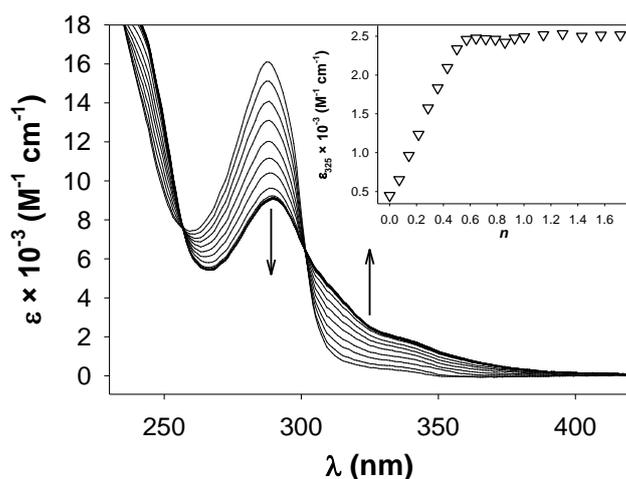


Figure S8. Absorption spectra recorded during the titration of a MeCN solution of **8b** (10^{-5} M) with zinc(II) ion. In the inset, titration profile shows the formation of a 1:1 adduct (n = equiv of Zn^{II} ion/equiv of **8b**).

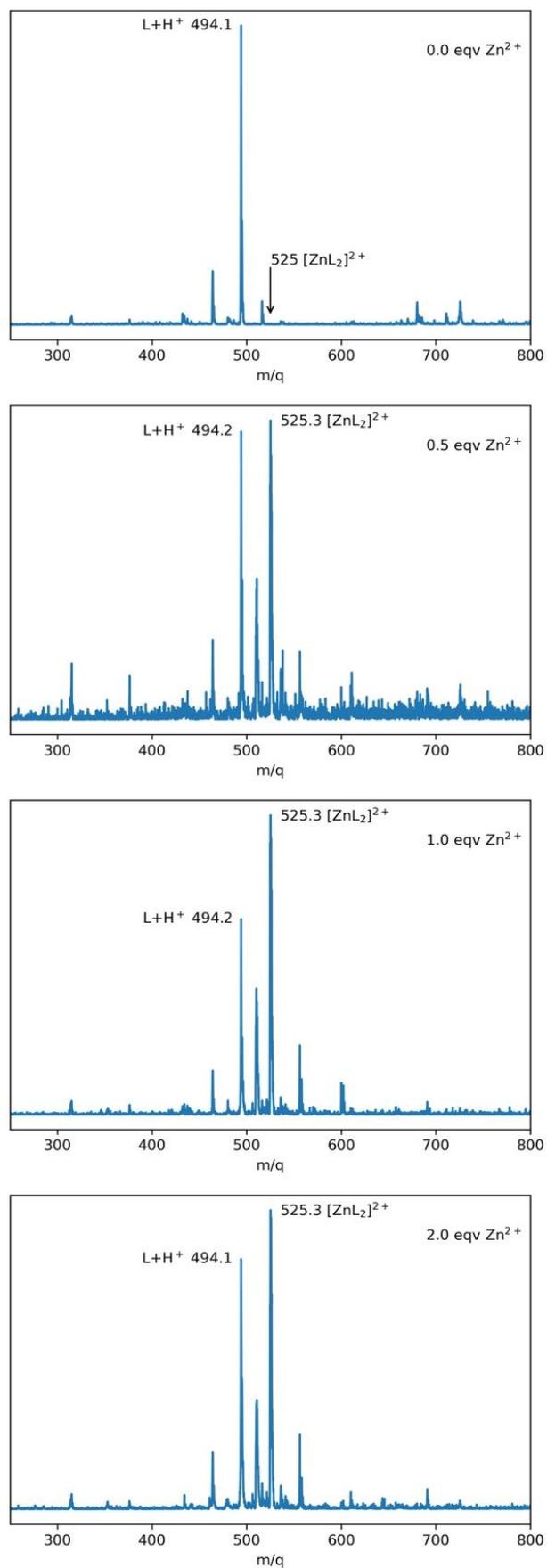


Figure S9. ESI-MS spectra measured on MeCN solutions of compound **7a** in the presence of increasing amount of zinc(II) trifluoromethanesulfonate ($L = \mathbf{7a}$).

Table S1. Chemical shift observed for ligand **6a** and the corresponding zinc(II) complex.

<i>protons</i>	6a	$[\text{Zn}(\mathbf{6a})_2]^{2+}$
a	7.90	8.53
b	8.10	8.00
c	8.52	8.13
d	4.80	4.24
e	6.71	5.91
f	3.83	3.60
g	3.73	3.78