Electronic Supplementary Material (ESI) for Dalton Transactions

Electronic Supplementary Information

Aggregation properties of bis(salicylaldiminato)zinc(II) Schiff-base complexes and their Lewis acidic character

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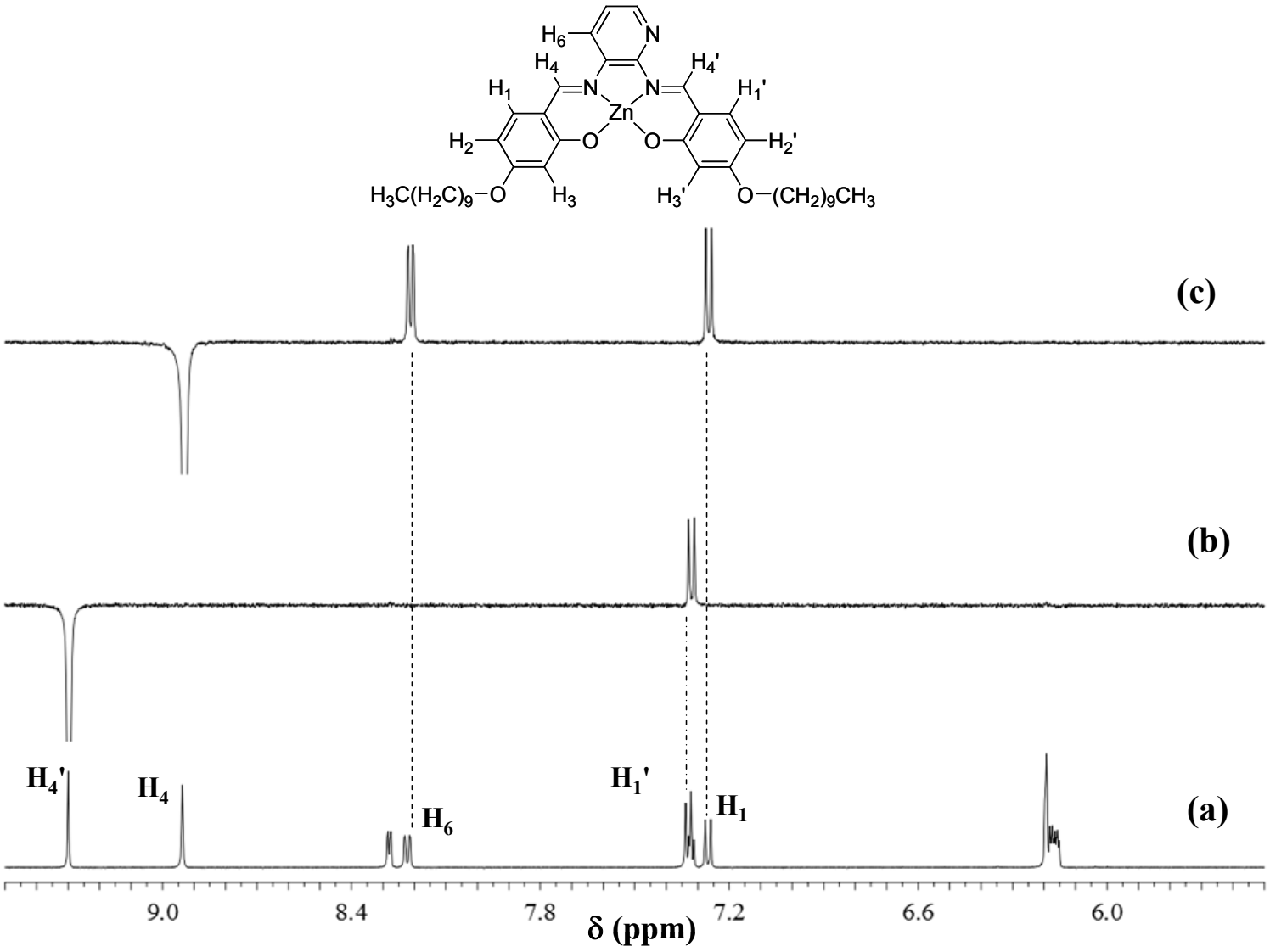

Fig. S1 ^{1}H NMR **(a)** and 1D T-ROESY spectra of **4a** in $CDCl_3$ solution (1.0×10^{-3} M) upon selective irradiation of H_4' **(b)** and H_4 **(c)**, respectively.

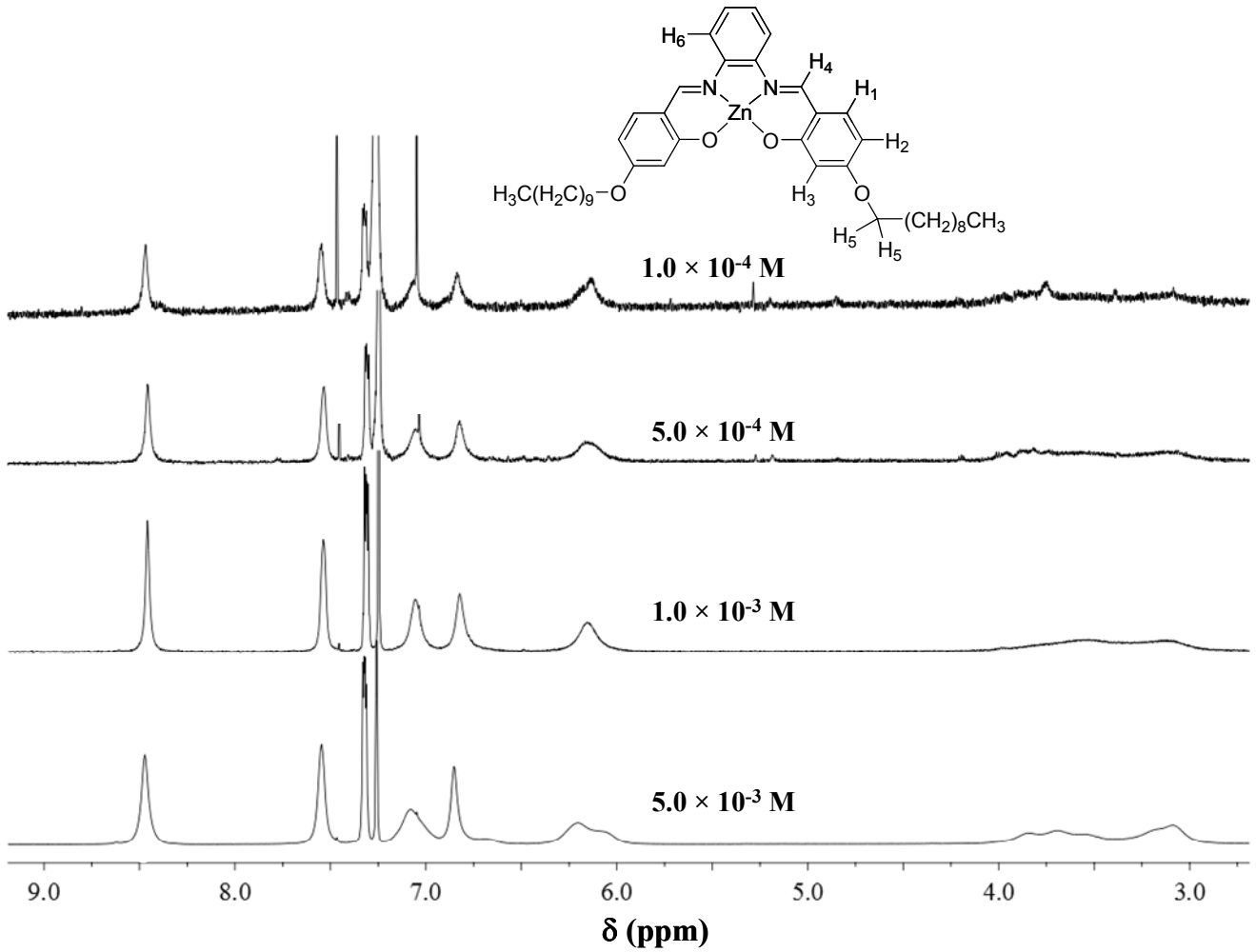

Fig. S2 Concentration dependence of ^{1}H NMR spectra of **2a** in $CDCl_3$ solution.

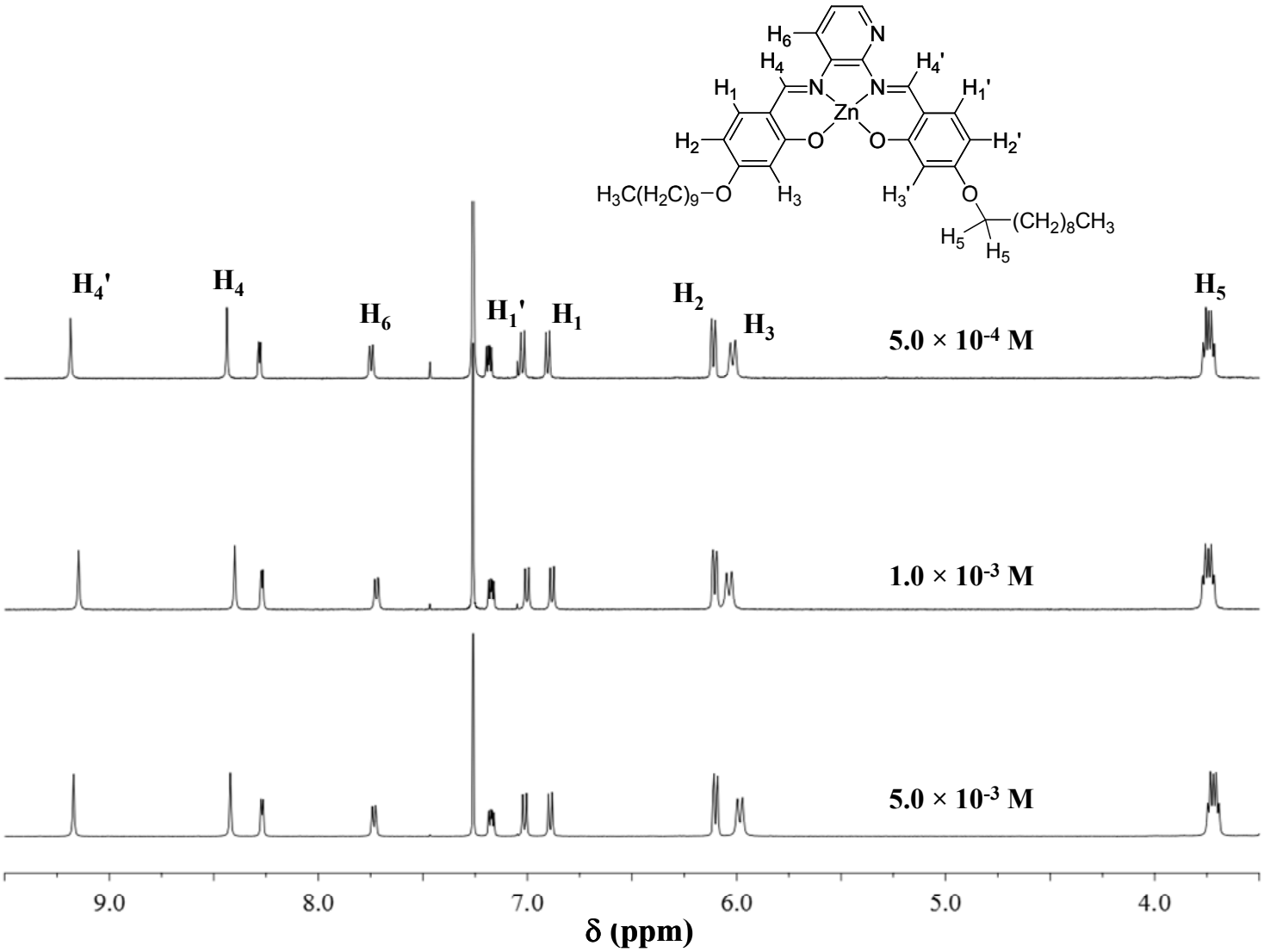

Fig. S3 Concentration dependence of ^{1}H NMR spectra of **4a** in $CDCl_3$ solution.

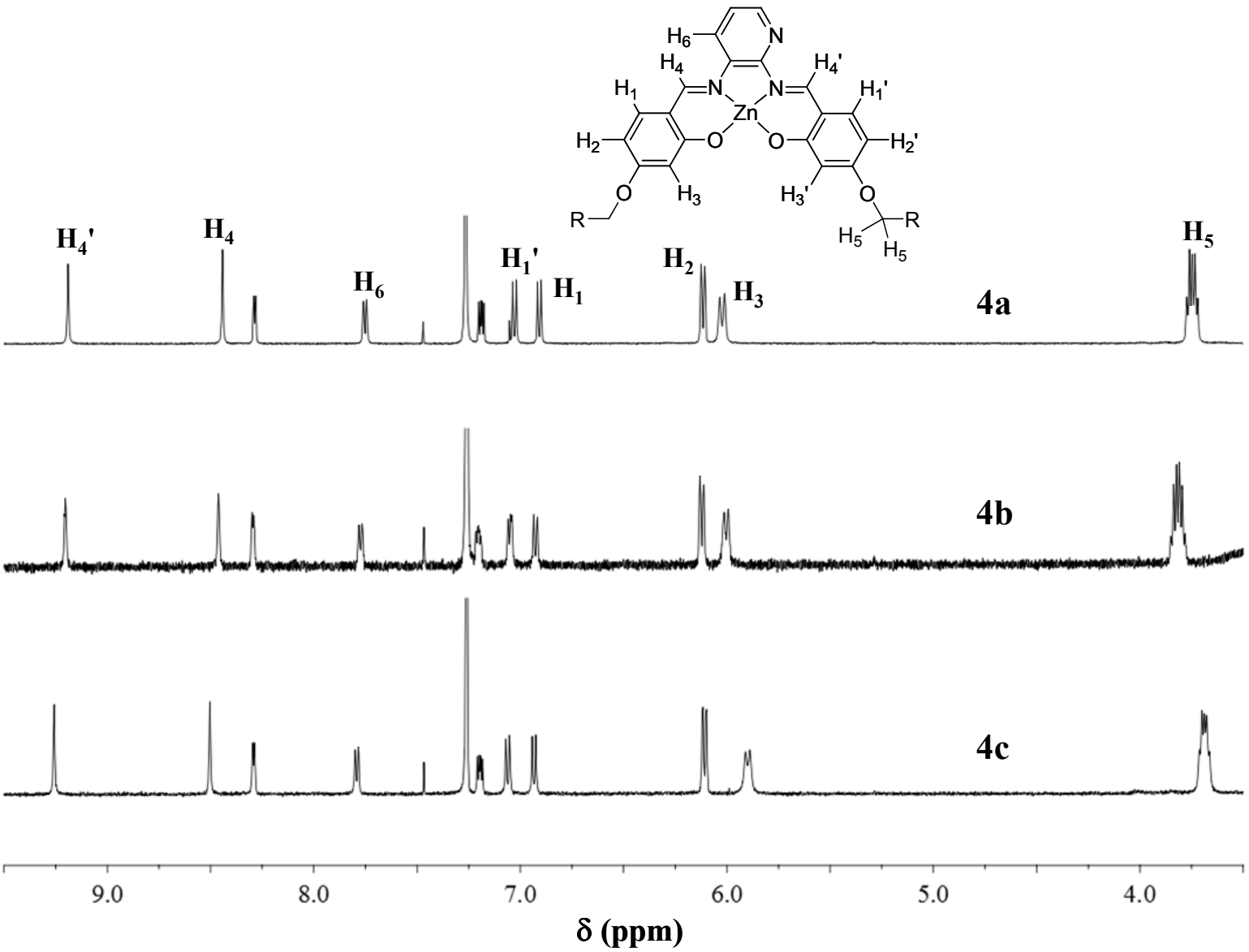

Fig. S4 ^{1}H NMR spectra of complexes **4a-c** in $CDCl_3$ solutions.

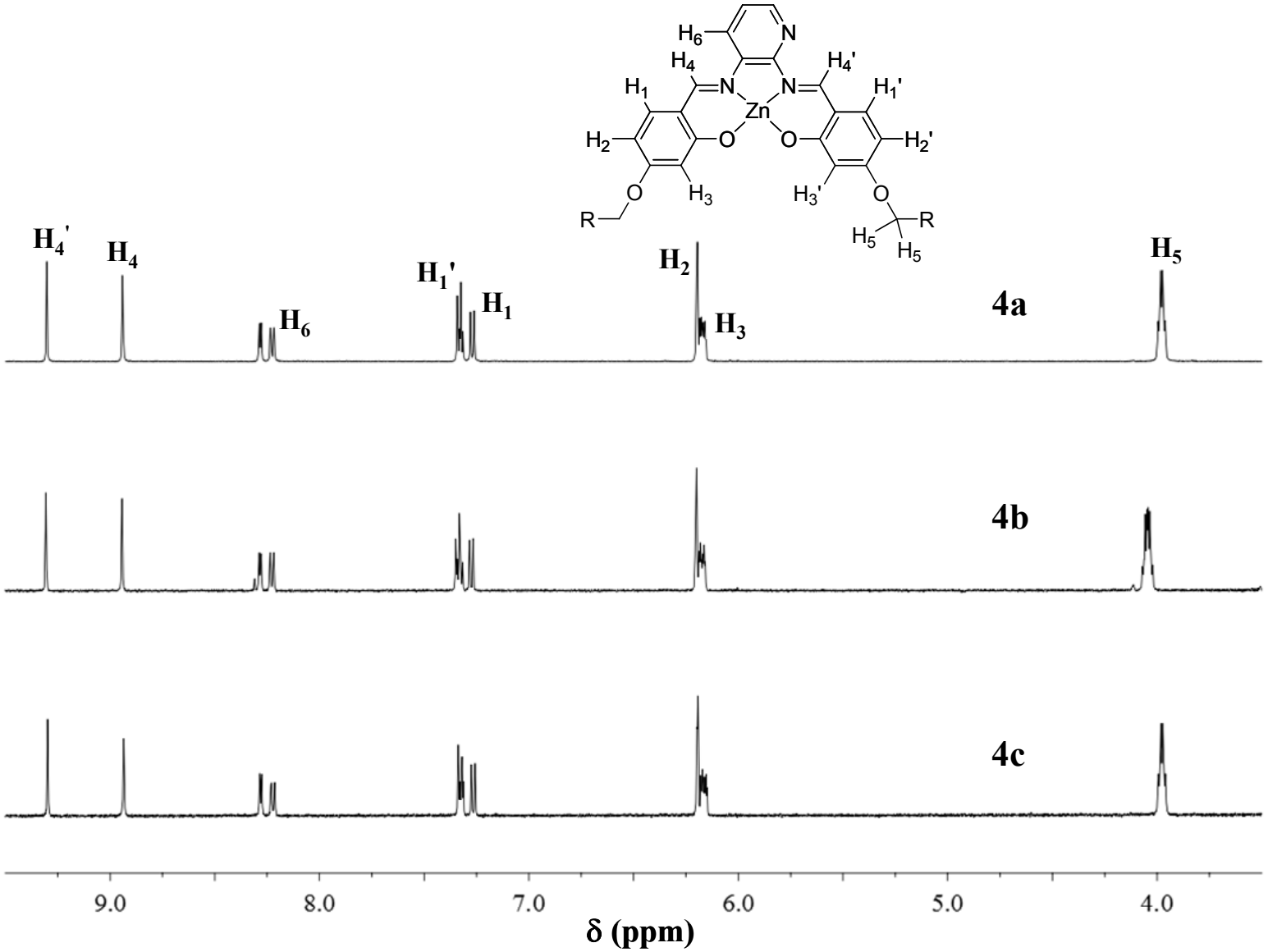

Fig. S5 ^{1}H NMR spectra of complexes **4a-c** in DMSO-d_6 solutions.

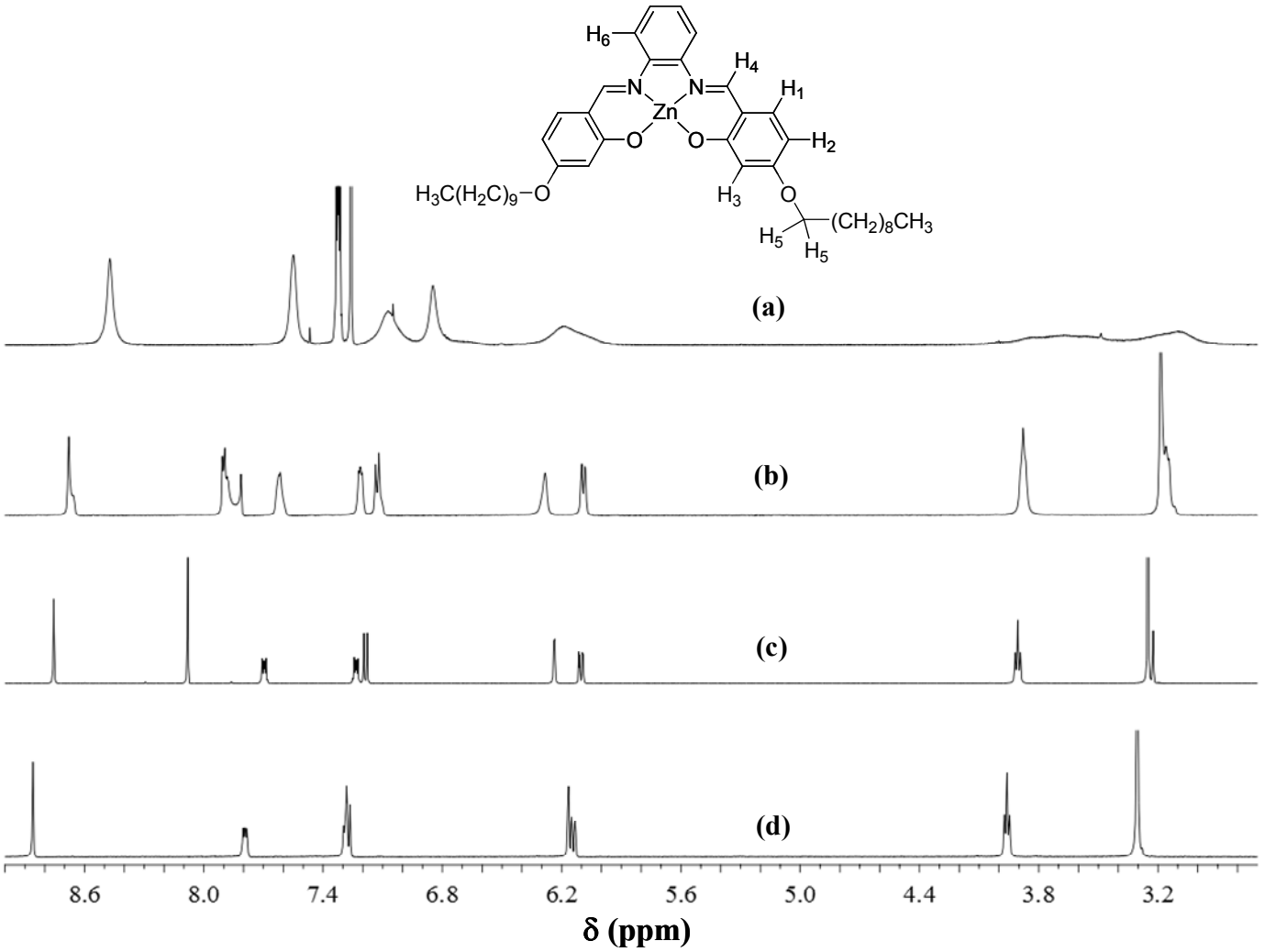

Fig. S6 ^{1}H NMR spectra of **2a** in $CDCl_3$ (1.0×10^{-3} M; 6.0×10^{-7} mol) **(a)** and with addition of 9.0×10^{-4} mol **(b)** and 1.8×10^{-3} mol **(c)** of DMSO-d_6. The ^{1}H NMR spectrum of **2a** in DMSO-d_6 is reported for comparison **(d)**.

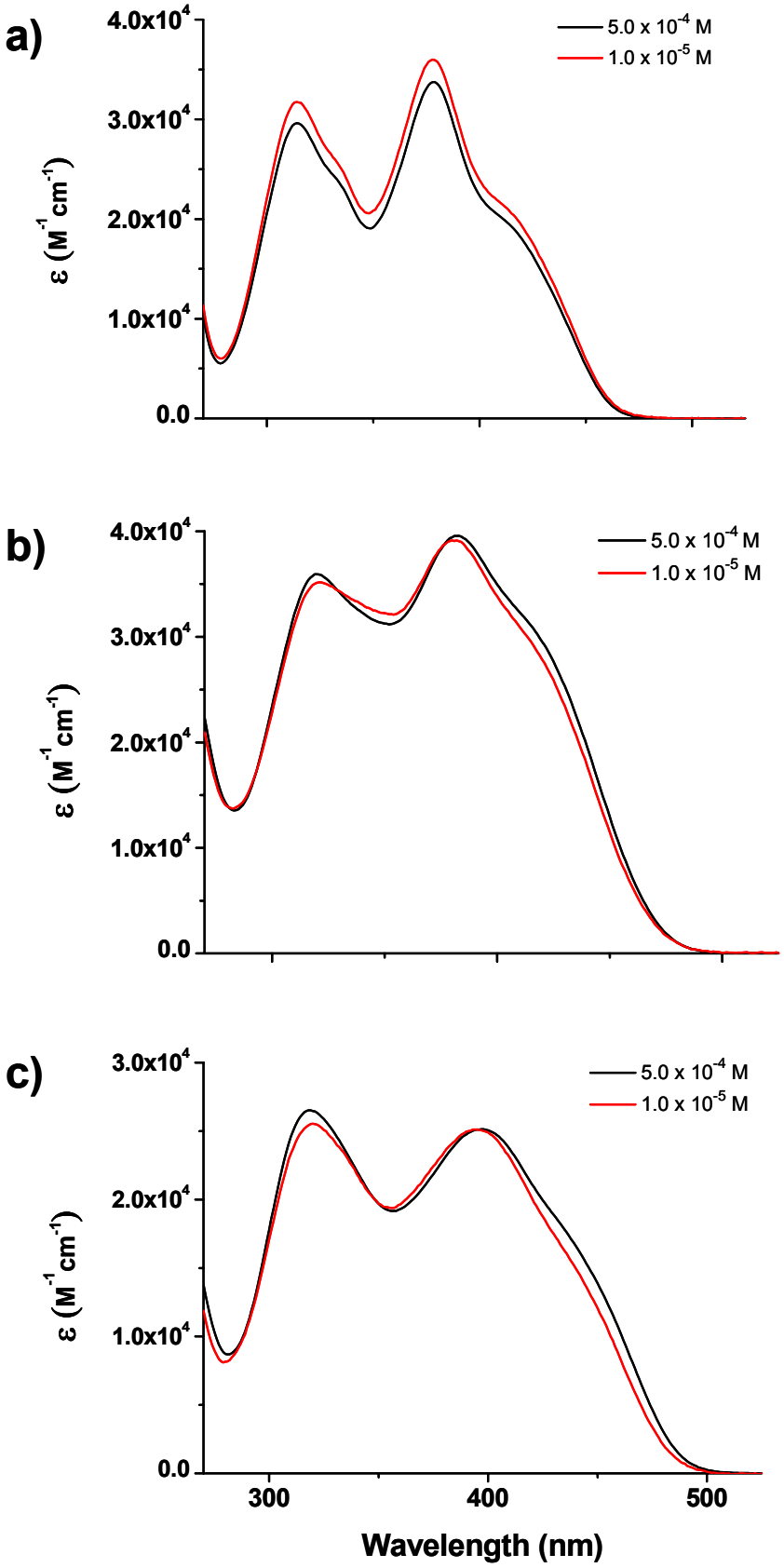

Fig. S7 Concentration dependence of UV/vis absorption spectra of **2a (a), 3a (b)** and **4a (c)** in $CHCl_3$ solutions.

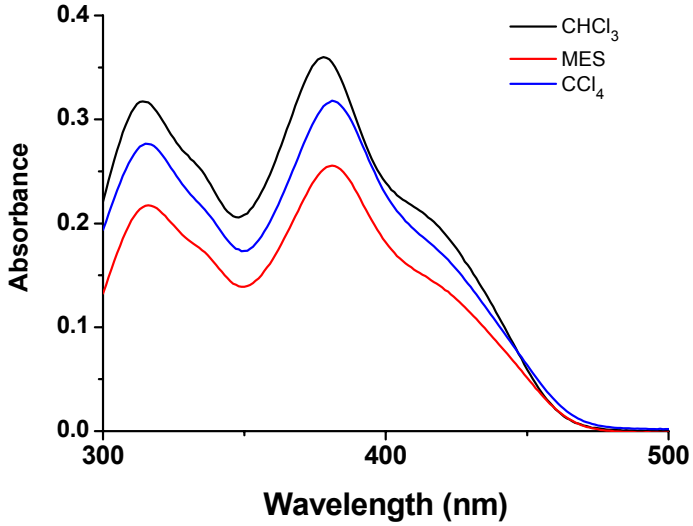

Fig. S8 UV/vis absorption spectra of **2a** (10 μM) in non-coordinating solvents of different polarities.

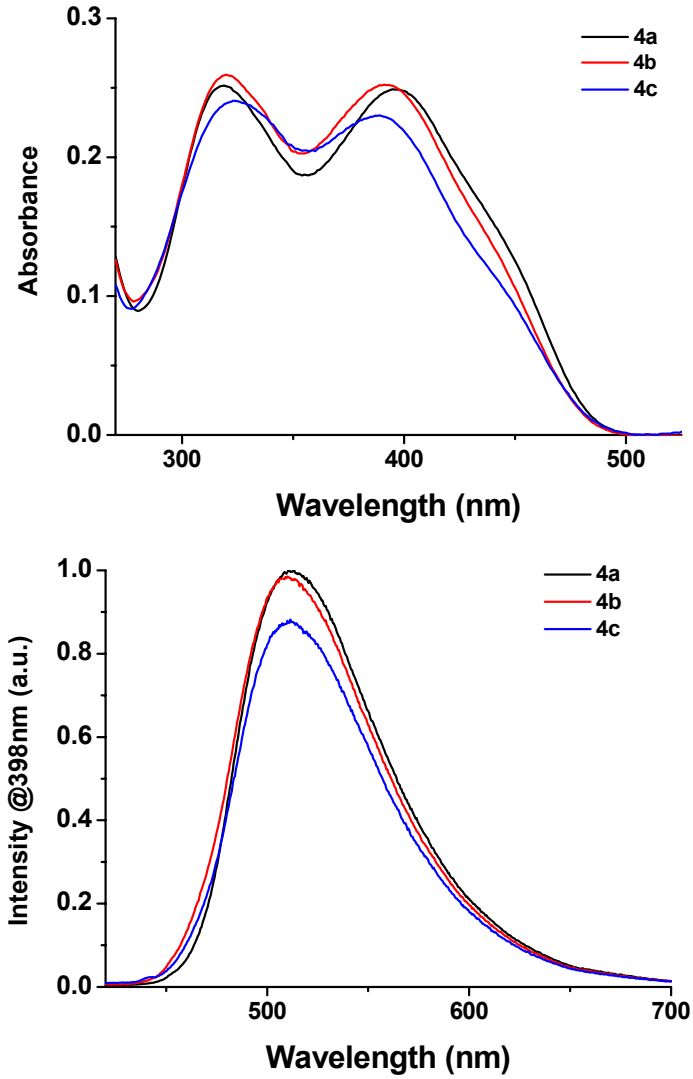

Fig. S9 UV/vis absorption (top) and fluorescence (bottom) spectra of complexes **4a-c** (10 μM) in $CHCl_3$ solutions.

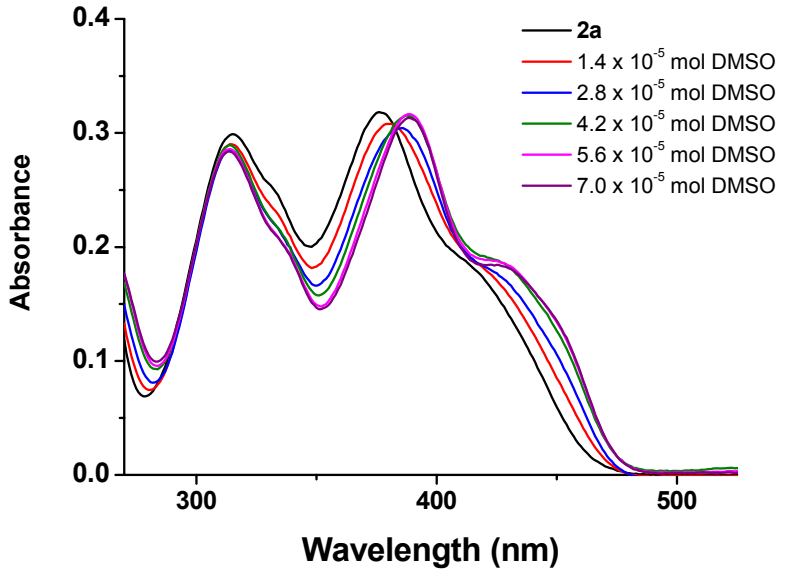

Fig. S10 UV/vis absorption spectra of **2a** in $CHCl_3$ (10 μM; 2.0×10^{-8} mol) and with addition of DMSO.

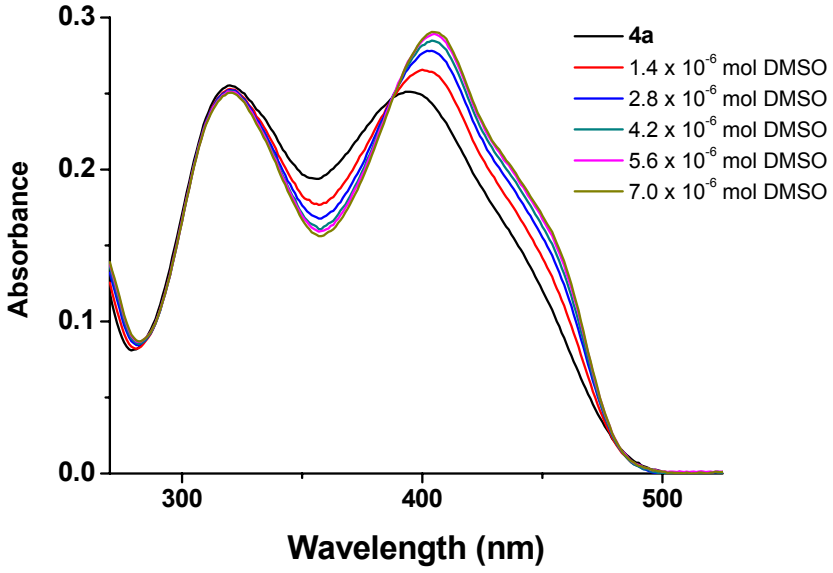

Fig. S11 UV/vis absorption spectra of **4a** in $CHCl_3$ (10 μM; 2.0×10^{-8} mol) and with addition of DMSO.