Supplementary Material

for

Zinc(II) and Copper(II) Complexes of 4-Styrylpyridine and 1-Adamantanecarboxylic Acid: Syntheses, Crystal Structures, and Photopolymerization

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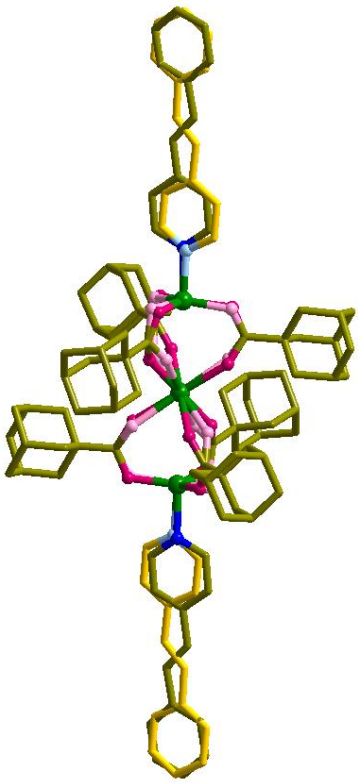


Figure S1. Crystal structure of $[Zn_3(spy)_2(adc)_6]$ (**1**). The spy ligands and oxygen atoms of adc ligands are disordered.

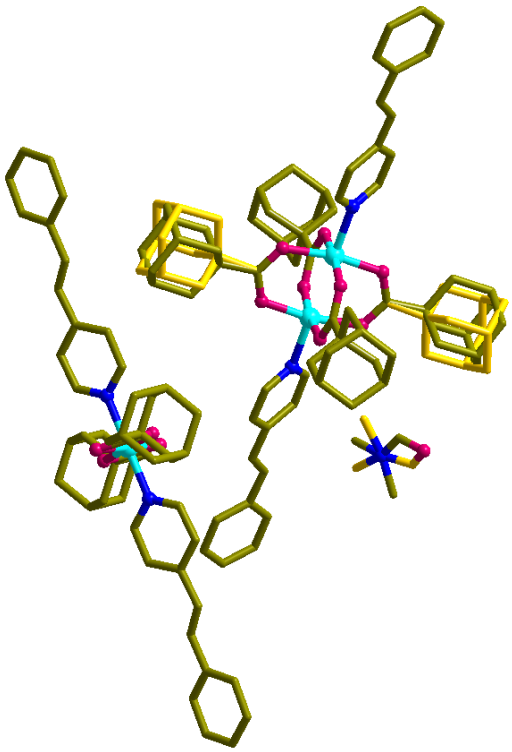


Figure S2. Crystal structure of $[Cu_2(spy)_2(adc)_4][Cu(spy)_2(adc)_2]\cdot DMF$ (**2**). The adc ligands and DMF molecule are disordered.

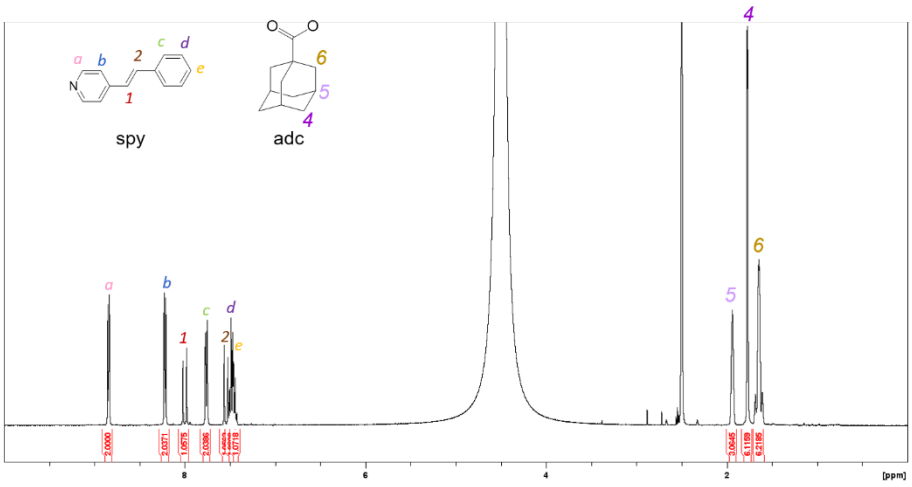
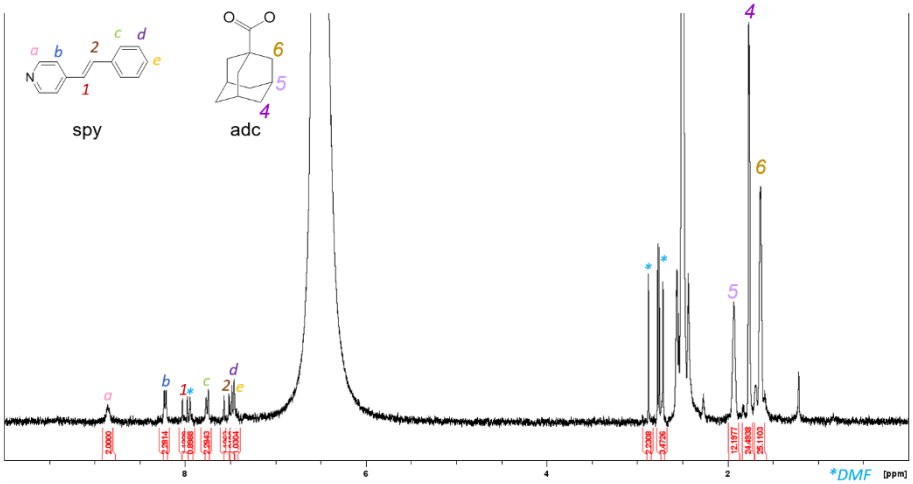
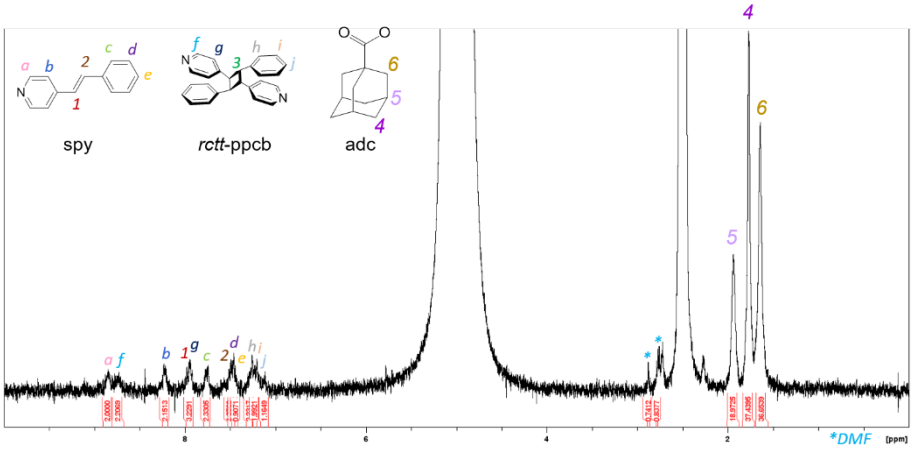


Figure S3. ^{1}H NMR spectrum of **1** in DMSO-d_6 with a small drop of HNO_3 to dissolve the crystals.



(**a**)



(**b**)

Figure S4. ^{1}H NMR spectra of (a) **2** and (b) **3** in DMSO-d_6 with a small drop of HNO_3 to dissolve the crystals. The water peak shifted from 3.20 ppm to 6.50 and 5.00 ppm for **2** and **3**, respectively, due to the addition of HNO_3.

Table S1. Selected bond lengths (Å) and bond Angles (°) for **1**[a]

Zn1-O2	1.964(17)	Zn1-O2X	2.02(2)
Zn1-O3	1.945(19)	Zn1-O3X	1.92(3)
Zn1-O5	1.940(15)	Zn1-O5X	1.95(3)
Zn1-N1	2.099(3)	Zn1-N1X	2.014(17)
Zn2-O1	2.254(8)	Zn2-O1A	2.254(8)
Zn2-O1X	2.240(10)	Zn2-O1XA	2.240(10)
Zn2-O4	2.299(8)	Zn2-O4A	2.299(8)
Zn2-O4X	2.300(10)	Zn2-O4XA	2.300(10)
Zn2-O6	2.306(7)	Zn2-O6A	2.306(7)
Zn2-O6X	2.282(13)	Zn2-O6XA	2.282(13)

[a]Symmetry operation: (A) 1-x, 1-y, 1-z.

Table S2. Selected bond lengths (Å) and bond Angles (°) for **2**[a]

Cu1-O1A	1.961(3)	Cu1-O2	1.964(3)
Cu1-O3A	1.964(3)	Cu1-O4	1.962(3)
Cu1-N1	2.161(3)	Cu2-O5	1.954(2)
Cu2-O5B	1.954(2)	Cu2-N2	2.035(3)
Cu2-N2B	2.035(3)		

[a]Symmetry operations: (A) 1-x, 2-y, 2-z; (B) -x, 1-y, 1-z.