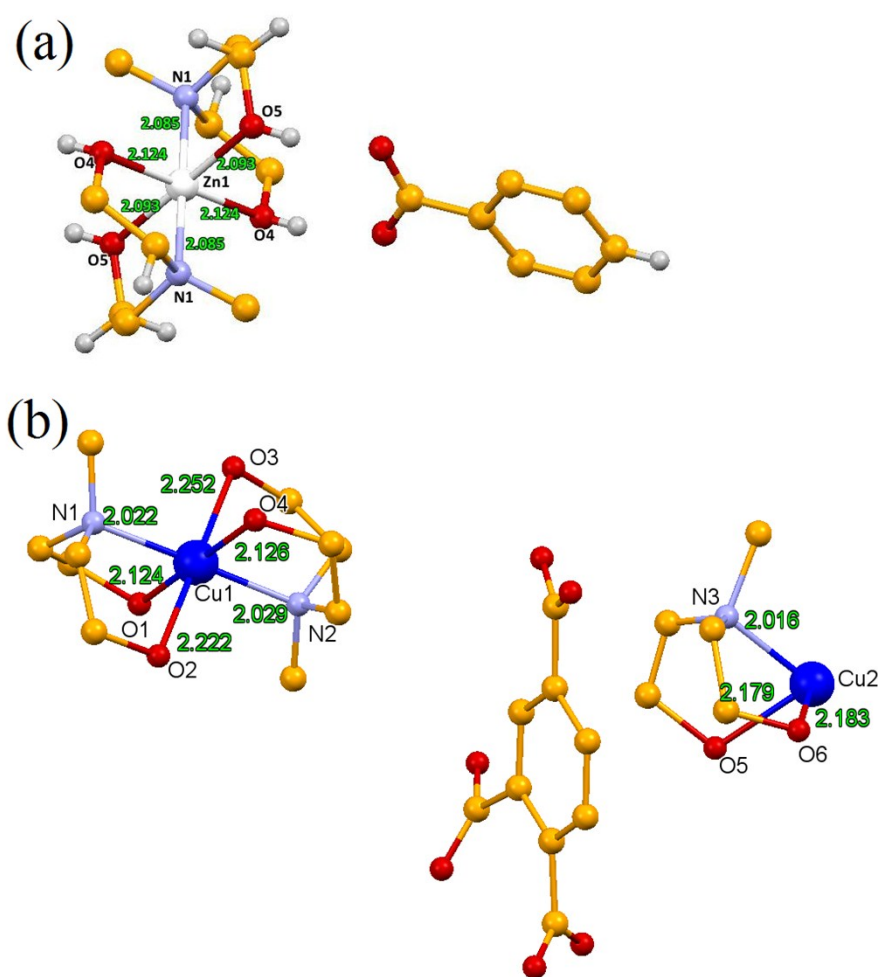


Electronic Supplementary Material (ESI)

Synthesis, crystal structures, photoluminescence, magnetic and antioxidant properties, and theoretical analysis of Zn(II) and Cu(II) complexes of an aminoalcohol ligand supported by benzoate counter anions



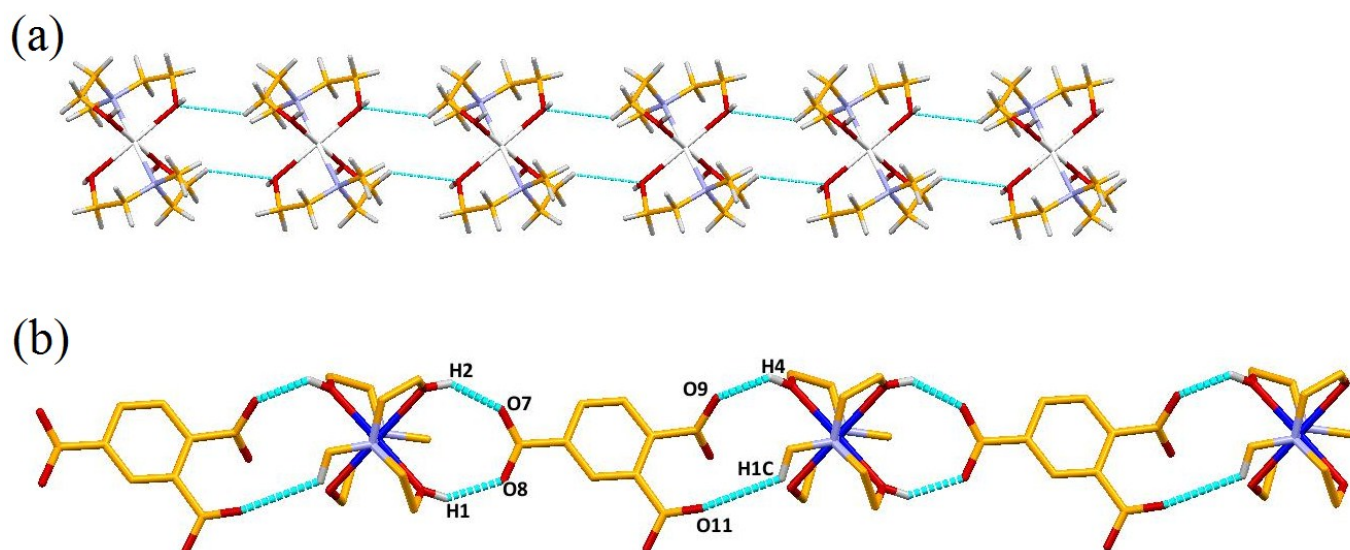


Fig. 2S. (a) 1D chain of **1** through C–H···O contacts (b) 1D chain of **2** through O–H···O contacts.

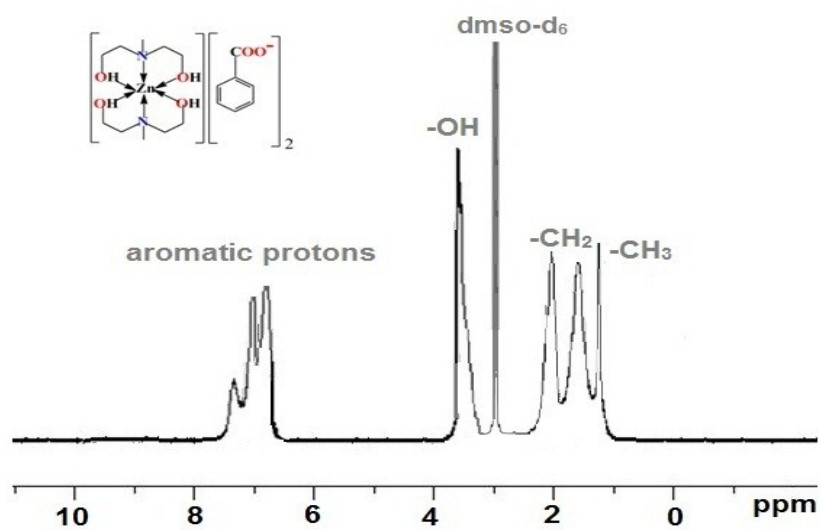


Fig. 3S. ¹H NMR spectrum of **1**.

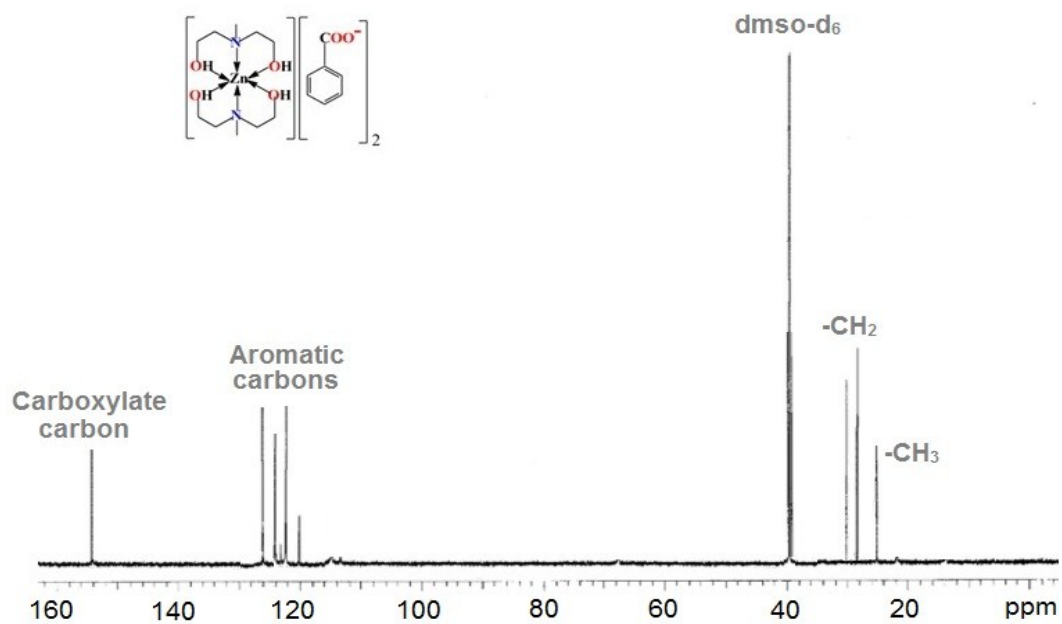


Fig. 4S. ^{13}C NMR spectrum of **1**.

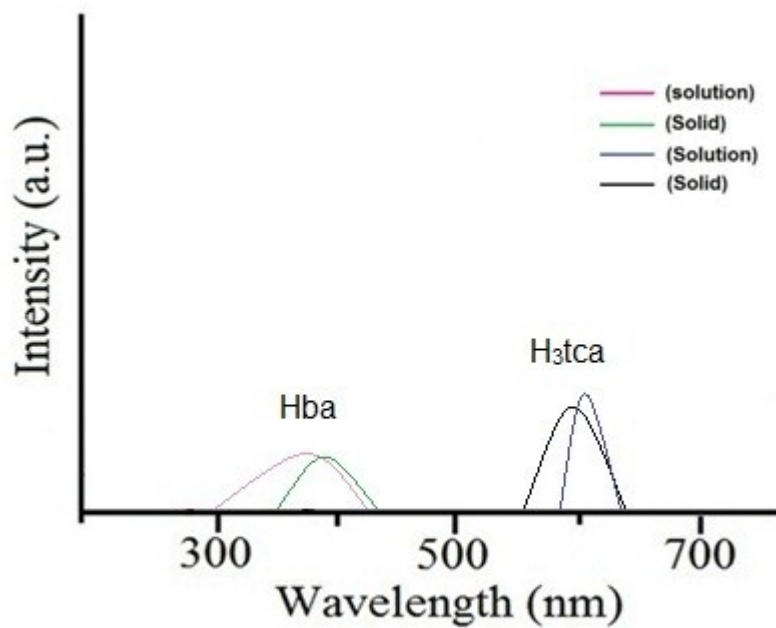


Fig. 5S. Fluorescence spectra of the free ligands [λ_{ex} = 270 nm (Hba) and 240 nm (H₃tca)].

Table 1S. Selected bond lengths and bond angles of **1** and **2**.

Bond lengths (Å)	
1	2
Zn1–N1=2.085(5)	Cu1–N1=2.022(4)
Zn1–O4=2.124(5)	Cu1–N2=2.030(4)
Zn1–O5=2.093(4)	Cu2–N3=2.015(6)
C1–O2=1.229(5)	Cu1–O1=2.124 (4)
C1– O1=1.230(5)	Cu1–O2=2.221 (4)
C1–C2=1.471(6)	Cu1–O3=2.253(4)
C2– C6=1.376(6)	Cu1–O4=2.125 (4)
C2– C3=1.380(6)	Cu2–O5=2.179(7)
C3– C7=1.349(7)	Cu2–O6=2.184(4)
Bond Angles (°)	
1	2
N1 Zn1 N1 =180.0(2)	N1 Cu1 N2 =179.12(18)
N1 Zn1 O5 =82.6(2)	N1 Cu1 O1 =83.60(18)
N1 Zn1 O5 =97.4(2)	N2 Cu1 O1 =96.08(16)
N1 Zn1 O5 =97.4(2)	N1 Cu1 O4 =97.58(17)
N1 Zn1 O5= 82.6(2)	N2 Cu1 O4 =82.76(15)
O5 Zn1 O5 =180.0(2)	O1 Cu1 O4 =178.27(15)
N1 Zn1 O4 =99.49(18)	N1 Cu1 O2 =81.20(17)
N1 Zn1 O4= 80.51(18)	N2 Cu1 O2 =98.02(17)
O5 Zn1 O4 =87.31(19)	O1 Cu1 O2 =94.25(16)
O5 Zn1 O4 =92.69(19)	O4 Cu1 O2 =87.19(15)
N1 Zn1 O4= 80.51(18)	N1 Cu1 O3 =98.54(17)
	N2 Cu1 O3 =82.25(17)
	O1 Cu1 O3 =85.75(15)
	O4 Cu1 O3 =92.82(14)