

Supporting Information for the paper titled “**Metal Disordering Cu(II) Supramolecular Isomers Constructed from a Tripodal Ligand Possessing Two Different Functional Groups**” to *CrystEngComm*.

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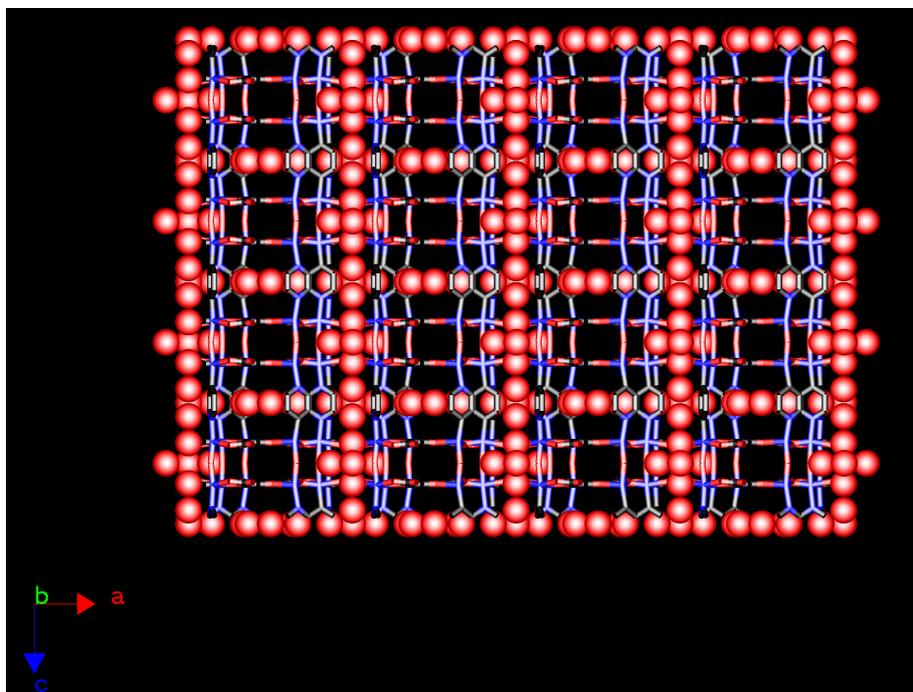
**Table S1.** Selected bond lengths (Å) and angles (°) of **1** and **2**.

Complex 1			
Cu(1)–O(1A)	2.091(2)	O(3)–Cu(1)–O(1A)	108.09(9)
Cu(1)–O(2)	2.103(2)	O(3)–Cu(1)–O(2)	70.40(9)
Cu(1)–O(3)	2.412(2)	O(3)–Cu(1)–O(4)	93.48(12)
Cu(1)–O(4)	1.959(4)	O(3)–Cu(1)–N(1)	98.79(10)
Cu(1)–N(1)	2.065(3)	O(2)–Cu(1)–O(4)	83.40(12)
		O(4)–Cu(1)–O(1A)	80.84(12)
		O(1A)–Cu(1)–N(1)	100.76(11)
		N(1)–Cu(1)–O(2)	95.12(11)
Complex 2			
Cu(1)–O(1)	1.921(3)	O(1w)–Cu(1)–O(1)	89.26(11)
Cu(1)–N(1)	1.999(3)	O(1w)–Cu(1)–O(16)	89.77(11)
Cu(1)–O(3)	2.450(2)	O(1w)–Cu(1)–N(1)	171.10(13)
Cu(1)–O(1w)	1.920(3)	O(16)–Cu(1)–N(1)	89.92(11)
Cu(1)–O(16)	1.960(3)	O(1)–Cu(1)–O(16)	173.53(11)
Cu(2)–O(4)	1.990(3)	O(1)–Cu(1)–N(1)	92.02(11)
Cu(2)–N(2)	2.03(4)	C(32')–Cu(2)–O(2w)	169.3(16)
Cu(2)–O(2w)	1.988(2)	O(2w)–Cu(2)–O(4)	87.27(11)
Cu(3)–O(7)	1.980(3)	O(2w)–Cu(2)–N(2)	167.4(11)
Cu(3)–O(10)	1.959(3)	C(32')–Cu(2)–O(4)	94.9(16)
Cu(4)–O(2wE)	2.102(2)	O(4)–Cu(2)–N(2)	91.3(12)
Cu(5)–O(3wE)	1.922(3)	O(3w)–Cu(3)–O(10)	85.56(11)
Cu(5)–N(3')	2.149(6)	O(10)–Cu(3)–O(7)	172.30(12)
O(5)–Cu(5A)	2.257(3)	O(3w)–Cu(3)–N(3)	169.9(6)
O(6)–Cu(5A)	2.452(2)	O(7)–Cu(3)–N(3)	91.6(7)
O(9)–Cu(4B)	2.470(3)	O(3w)–Cu(3)–O(7)	88.54(11)
O(11)–Cu(4C)	2.292(3)	O(10)–Cu(3)–N(3)	95.0(7)
O(13)–Cu(2D)	2.233(3)	O(3w)–Cu(3)–O(12)	93.37(11)
O(14)–Cu(5C)	2.025(3)	O(7)–Cu(3)–O(12)	101.64(11)
O(15)–Cu(2D)	2.501(3)	N(3)–Cu(3)–O(12)	96.4(5)
		N(2')–Cu(4)–O(2wE)	177.2(2)
		O(3wE)–Cu(5)–N(3')	156.2(2)

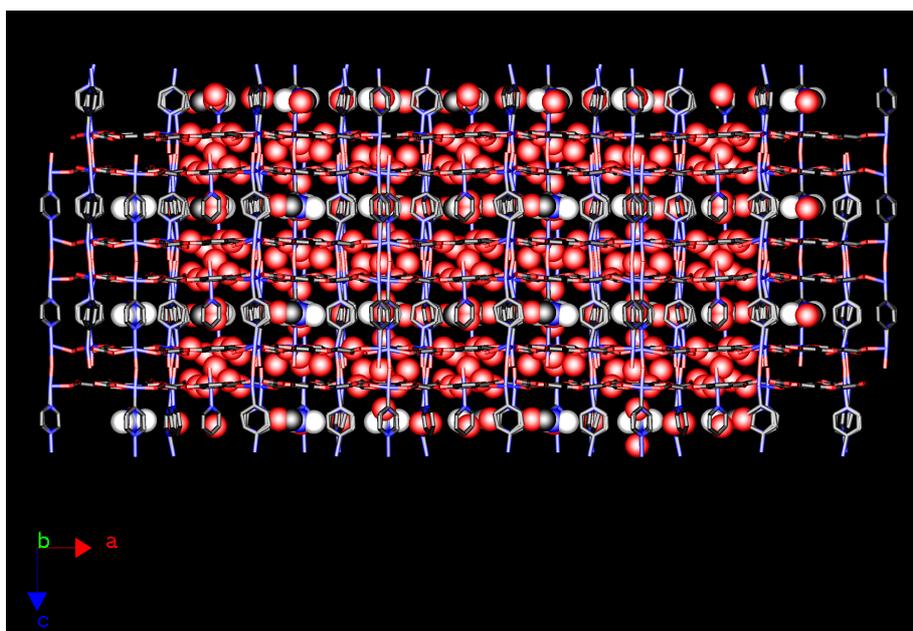
Symmetry codes: for **1**, A:  $1 + y, 1 - x + y, -z$ ; for **2**, A:  $1 + y, 1 - x + y, 1 - z$ ; B:  $2 - x, 1 - y, 1 - z$ ;

C:  $+x - y, -1 + x, 1 - z$ ; D:  $1 - x + y, 1 - x, +z$ ; E:  $+x, +y, 1 + z$ .

**Figure S1.** Three-dimensional network of **1** viewed down the *b* (bottom) axis, respectively, showing space-filling of the solvent molecules. (Red, oxygen) Hydrogen atoms are omitted for clarity.



**Figure S2.** Three-dimensional network of **2** viewed down the *b* axis, respectively, showing the space-filling of the solvent molecules. (Red, oxygen; white, carbon; blue, nitrogen.) Hydrogen atoms are omitted for clarity.



**Figure S3.** TGA of **1** (top) and **2** (bottom).

