

Supporting information for:

Synthesis and Structural Characterizations of New Coordination Polymers Generated by the Interaction Between the Trinuclear Triangular SBU $[\text{Cu}_3(\mu_3\text{-OH})(\mu\text{-pz})_3]^{2+}$ and 4,4'-Bipyridine. 3rd.

Francesca Condello,^a Federica Garau,^b Arianna Lanza,^{b,c} Magda Monari,^{d*} Fabrizio Nestola,^e Luciano Pandolfo,^{b*} Claudio Pettinari.^{a*}

^a Scuola di Farmacia, University of Camerino, Via S. Agostino, 1, I-62032 Camerino (MC), Italy.

^b Dipartimento di Scienze Chimiche, University of Padova, Via Marzolo, 1, I-35131 Padova, Italy.

^c Departement für Chemie und Biochemie, University of Bern, Freiestrasse, 3, CH-3012 Bern, Switzerland.

^d Dipartimento di Chimica "G. Ciamician", University of Bologna, Via Selmi, 2, I-40126 Bologna, Italy.

^e Dipartimento di Geoscienze, University of Padova, Via Gradenigo, 6, I-35131 Padova, Italy.

Table S1 – Bond lengths [Å] and angles [deg] for 2.

Cu(1)-N(1)	1.947(7)	O(1)-C(28)	1.494(8)	N(7)-C(14)	1.316(9)	C(12)-C(12)#1	1.495(13)
Cu(1)-N(6)	1.971(6)	O(2)-C(20)	1.261(9)	N(7)-C(10)	1.333(10)	C(13)-C(14)	1.404(10)
Cu(1)-O(1)	2.031(5)	O(4)-C(24)	1.245(19)	N(8)-C(19)	1.308(9)	C(15)-C(16)	1.387(10)
Cu(1)-N(7)	2.042(6)	O(5)-C(24)	1.22(2)	N(8)-C(15)	1.320(9)	C(16)-C(17)	1.383(10)
Cu(1)-O(3)	2.184(6)	O(3)-C(20)	1.243(9)	C(1)-C(2)	1.315(12)	C(17)-C(18)	1.348(10)
Cu(2)-N(2)	1.958(7)	N(1)-C(1)	1.343(10)	C(2)-C(3)	1.368(13)	C(17)-C(17)#2	1.494(13)
Cu(2)-N(3)	1.971(7)	N(1)-N(2)	1.355(8)	C(4)-C(5)	1.331(14)	C(18)-C(19)	1.394(10)
Cu(2)-N(8)	2.036(6)	N(2)-C(3)	1.341(10)	C(5)-C(6)	1.345(12)	C(20)-C(21)	1.481(12)
Cu(2)-O(1)	2.040(4)	N(3)-C(4)	1.338(9)	C(7)-C(8)	1.401(12)	C(21)-C(22)	1.518(5)
Cu(2)-O(2)	2.149(6)	N(3)-N(4)	1.346(9)	C(8)-C(9)	1.341(12)	C(22)-C(23)	1.550(5)
Cu(3)-N(4)	1.952(6)	N(4)-C(6)	1.333(10)	C(10)-C(11)	1.360(11)	C(24)-C(25)	1.44(2)
Cu(3)-N(5)	1.958(6)	N(5)-C(7)	1.308(10)	C(11)-C(12)	1.380(10)	C(25)-C(26)	1.535(5)
Cu(3)-O(4)	1.961(6)	N(5)-N(6)	1.349(9)	C(12)-C(13)	1.388(10)	C(26)-C(27)	1.545(5)
Cu(3)-O(1)	1.976(5)	N(6)-C(9)	1.345(9)				
N(1)-Cu(1)-N(6)	161.5(3)	Cu(1)-O(1)-Cu(2)	106.2(2)	C(5)-C(4)-N(3)		110.3(8)	
N(1)-Cu(1)-O(1)	87.7(2)	C(20)-O(2)-Cu(2)	127.8(5)	C(4)-C(5)-C(6)		105.3(8)	
N(6)-Cu(1)-O(1)	87.7(2)	C(24)-O(4)-Cu(3)	110.5(10)	N(4)-C(6)-C(5)		110.5(9)	
N(1)-Cu(1)-N(7)	90.0(3)	C(20)-O(3)-Cu(1)	129.6(5)	N(5)-C(7)-C(8)		108.9(9)	
N(6)-Cu(1)-N(7)	93.4(2)	C(1)-N(1)-N(2)	106.5(6)	C(9)-C(8)-C(7)		104.9(8)	
O(1)-Cu(1)-N(7)	176.0(2)	C(1)-N(1)-Cu(1)	133.2(5)	N(6)-C(9)-C(8)		109.9(8)	
N(1)-Cu(1)-O(3)	102.1(3)	N(2)-N(1)-Cu(1)	120.2(5)	N(7)-C(10)-C(11)		124.5(8)	
N(6)-Cu(1)-O(3)	95.8(3)	C(3)-N(2)-N(1)	107.9(7)	C(10)-C(11)-C(12)		119.0(7)	
O(1)-Cu(1)-O(3)	90.0(2)	C(3)-N(2)-Cu(2)	134.0(6)	C(11)-C(12)-C(13)		117.7(7)	
N(7)-Cu(1)-O(3)	93.8(2)	N(1)-N(2)-Cu(2)	117.9(5)	C(11)-C(12)-C(12)#1		122.1(8)	
N(2)-Cu(2)-N(3)	164.6(3)	C(4)-N(3)-N(4)	107.3(7)	C(13)-C(12)-C(12)#1		120.1(8)	
N(2)-Cu(2)-N(8)	92.9(3)	C(4)-N(3)-Cu(2)	132.7(6)	C(12)-C(13)-C(14)		118.7(7)	
N(3)-Cu(2)-N(8)	89.7(3)	N(4)-N(3)-Cu(2)	119.6(5)	N(7)-C(14)-C(13)		122.8(7)	
N(2)-Cu(2)-O(1)	87.3(2)	C(6)-N(4)-N(3)	106.7(7)	N(8)-C(15)-C(16)		122.5(7)	
N(3)-Cu(2)-O(1)	86.8(2)	C(6)-N(4)-Cu(3)	131.1(7)	C(17)-C(16)-C(15)		119.9(7)	
N(8)-Cu(2)-O(1)	166.8(2)	N(3)-N(4)-Cu(3)	121.7(5)	C(18)-C(17)-C(16)		116.8(7)	
N(2)-Cu(2)-O(2)	98.6(3)	C(7)-N(5)-N(6)	108.9(7)	C(18)-C(17)-C(17)#2		122.3(8)	
N(3)-Cu(2)-O(2)	96.3(3)	C(7)-N(5)-Cu(3)	130.1(6)	C(16)-C(17)-C(17)#2		120.9(8)	
N(8)-Cu(2)-O(2)	94.6(2)	N(6)-N(5)-Cu(3)	121.0(5)	C(17)-C(18)-C(19)		120.0(7)	
O(1)-Cu(2)-O(2)	98.4(2)	C(9)-N(6)-N(5)	107.4(7)	N(8)-C(19)-C(18)		123.4(7)	
N(4)-Cu(3)-N(5)	174.7(3)	C(9)-N(6)-Cu(1)	133.3(6)	O(3)-C(20)-O(2)		124.5(8)	
N(4)-Cu(3)-O(4)	90.8(3)	N(5)-N(6)-Cu(1)	118.8(5)	O(3)-C(20)-C(21)		111.2(8)	
N(5)-Cu(3)-O(4)	91.6(3)	C(14)-N(7)-C(10)	117.2(7)	O(2)-C(20)-C(21)		124.3(8)	
N(4)-Cu(3)-O(1)	88.9(2)	C(14)-N(7)-Cu(1)	118.2(5)	C(20)-C(21)-C(22)		118.0(9)	
N(5)-Cu(3)-O(1)	89.0(2)	C(10)-N(7)-Cu(1)	124.3(5)	C(21)-C(22)-C(23)		105.7(10)	
O(4)-Cu(3)-O(1)	177.4(2)	C(19)-N(8)-C(15)	117.4(6)	O(5)-C(24)-O(4)		118.3(15)	
C(28)-O(1)-Cu(3)	104.0(6)	C(19)-N(8)-Cu(2)	120.2(5)	O(5)-C(24)-C(25)		119.9(19)	
C(28)-O(1)-Cu(1)	112.7(6)	C(15)-N(8)-Cu(2)	121.5(5)	O(4)-C(24)-C(25)		120.6(19)	
Cu(3)-O(1)-Cu(1)	111.7(2)	C(2)-C(1)-N(1)	110.8(8)	C(24)-C(25)-C(26)		109.1(17)	
C(28)-O(1)-Cu(2)	108.3(6)	C(1)-C(2)-C(3)	106.5(9)	C(25)-C(26)-C(27)		103.9(14)	
Cu(3)-O(1)-Cu(2)	114.0(2)	N(2)-C(3)-C(2)	108.3(8)				

Symmetry transformations used to generate equivalent atoms:

#1 -x+2,-y+1,-z #2 -x,-y,-z+1

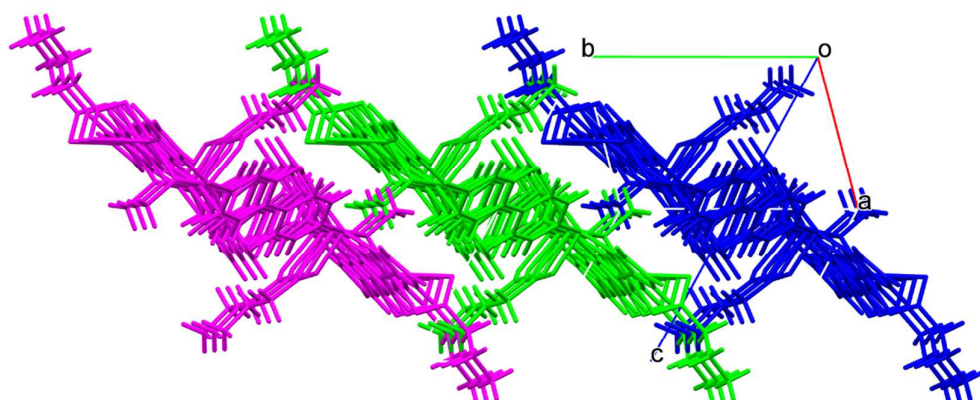


Figure S1 – Crystal packing of **2** evidencing the interdigitation of butyrate chains. Different colors indicate different 1D CPs.

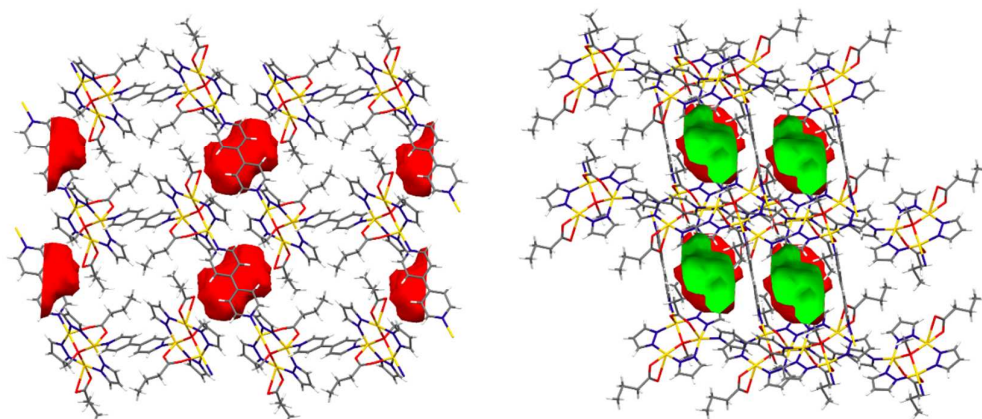


Figure S2 – OD pores present in **2**. In green and red the inner and outer pore surfaces, respectively.

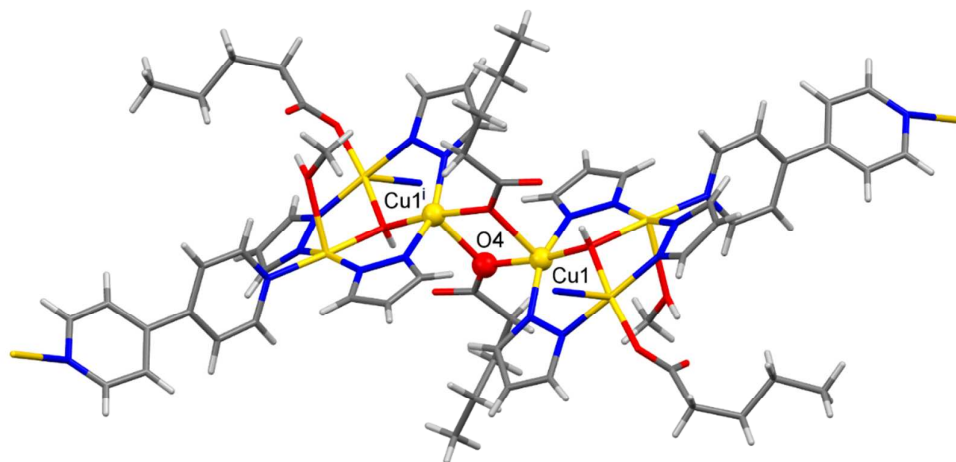


Figure S3 – Hexanuclear assembly of compound **3**.

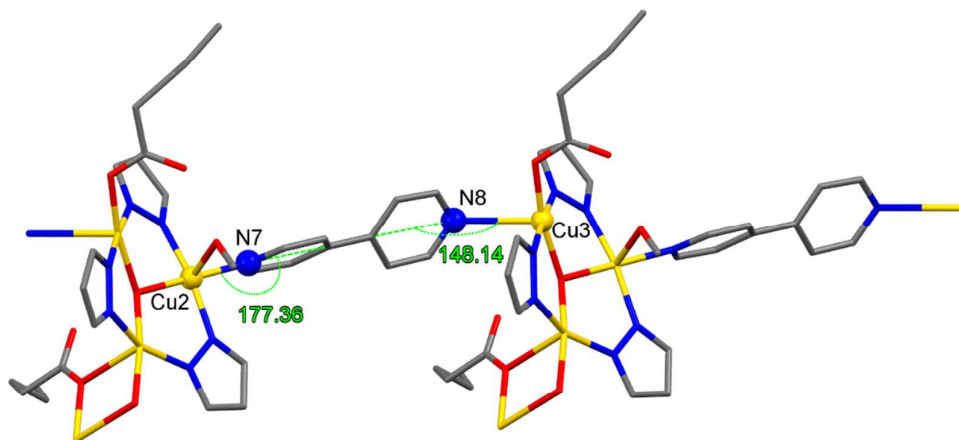


Figure S4 – Angles formed by Cu-N_{bpy} bonds and pyridinic rings in **3**.

Table S2 – Bond lengths [Å] and angles [deg] for **3**.

Cu(1)-N(6)	1.964(5)	C(19)-H(19)	0.9300	C(9)-H(9)	0.9300	C(21)-H(21B)	0.9700
Cu(1)-N(1)	1.967(5)	C(12)-C(11)	1.367(9)	N(5)-N(6)	1.357(7)	C(22)-C(23)	1.505(13)
Cu(1)-O(1)	1.981(4)	C(12)-C(13)	1.389(9)	C(6)-H(6)	0.9300	C(22)-H(22A)	0.9700
Cu(1)-O(4)#1	2.002(4)	C(13)-C(14)	1.382(9)	N(2)-C(3)	1.333(8)	C(22)-H(22B)	0.9700
Cu(1)-O(4)	2.339(4)	C(13)-H(13)	0.9300	N(2)-N(1)	1.362(7)	C(27)-C(28)	1.525(12)
Cu(2)-N(3)	1.954(5)	C(11)-C(10)	1.373(9)	N(1)-C(1)	1.316(8)	C(27)-H(27B)	0.9700
Cu(2)-N(2)	1.962(5)	C(11)-H(11)	0.9300	C(1)-C(2)	1.366(10)	C(27)-H(27A)	0.9700
Cu(2)-O(1)	1.999(4)	C(10)-N(7)	1.339(8)	C(1)-H(1)	0.9300	C(28)-C(29)	1.533(11)
Cu(2)-N(7)	2.037(5)	C(10)-H(10)	0.9300	C(2)-C(3)	1.375(10)	C(28)-H(28A)	0.9700
Cu(2)-O(6)	2.361(4)	C(14)-N(7)	1.339(8)	C(2)-H(2)	0.9300	C(28)-H(28B)	0.9700
Cu(3)-N(5)	1.943(5)	C(14)-H(14)	0.9300	C(3)-H(3)	0.9300	O(6)-C(30)	1.416(8)
Cu(3)-N(4)	1.962(5)	C(4)-N(3)	1.347(8)	O(1)-H(111)	0.83(6)	O(6)-H(6O)	0.88(2)
Cu(3)-O(2)	1.973(4)	C(4)-C(5)	1.379(10)	O(2)-C(20)	1.259(8)	C(30)-H(30A)	0.9600
Cu(3)-O(1)	2.006(4)	C(4)-H(4)	0.9300	O(4)-C(25)	1.273(7)	C(30)-H(30B)	0.9600
C(15)-C(16)	1.381(9)	C(5)-C(6)	1.375(10)	O(4)-Cu(1)#1	2.002(4)	C(30)-H(30C)	0.9600
C(15)-C(19)	1.383(9)	C(5)-H(5)	0.9300	C(25)-O(5)	1.238(7)	C(29)-H(29C)	0.9600
C(15)-C(12)	1.495(8)	N(3)-N(4)	1.373(7)	C(25)-C(26)	1.500(9)	C(29)-H(29B)	0.9600
C(16)-C(17)	1.395(9)	N(4)-C(6)	1.330(8)	C(26)-C(27)	1.517(10)	C(29)-H(29A)	0.9600
C(16)-H(16)	0.9300	C(8)-C(9)	1.355(10)	C(26)-H(26A)	0.9700	C(23)-C(24)	1.508(13)
C(17)-N(8)	1.319(9)	C(8)-C(7)	1.380(10)	C(26)-H(26B)	0.9700	C(23)-H(23A)	0.9700
C(17)-H(17)	0.9300	C(8)-H(8)	0.9300	O(3)-C(20)	1.238(8)	C(23)-H(23B)	0.9700
C(18)-N(8)	1.344(9)	C(7)-N(5)	1.336(8)	C(20)-C(21)	1.525(10)	C(24)-H(24C)	0.9600
C(18)-C(19)	1.383(9)	C(7)-H(7)	0.9300	C(21)-C(22)	1.492(10)	C(24)-H(24B)	0.9600
C(18)-H(18)	0.9300	C(9)-N(6)	1.348(8)	C(21)-H(21A)	0.9700	C(24)-H(24A)	0.9600
N(6)-Cu(1)-N(1)	157.8(2)	N(3)-C(4)-C(5)	110.1(6)	C(25)-C(26)-H(26A)	108.7		
N(6)-Cu(1)-O(1)	89.32(19)	N(3)-C(4)-H(4)	124.9	C(27)-C(26)-H(26A)	108.7		
N(1)-Cu(1)-O(1)	88.67(18)	C(5)-C(4)-H(4)	124.9	C(25)-C(26)-H(26B)	108.7		
N(6)-Cu(1)-O(4)#1	93.06(19)	C(6)-C(5)-C(4)	104.8(6)	C(27)-C(26)-H(26B)	108.7		
N(1)-Cu(1)-O(4)#1	92.64(19)	C(6)-C(5)-H(5)	127.6	H(26A)-C(26)-H(26B)	107.6		
O(1)-Cu(1)-O(4)#1	170.27(17)	C(4)-C(5)-H(5)	127.6	O(3)-C(20)-O(2)	125.3(7)		
N(6)-Cu(1)-O(4)	103.69(18)	C(4)-N(3)-N(4)	106.6(5)	O(3)-C(20)-C(21)	119.9(7)		
N(1)-Cu(1)-O(4)	98.54(18)	C(4)-N(3)-Cu(2)	136.5(5)	O(2)-C(20)-C(21)	114.8(7)		
O(1)-Cu(1)-O(4)	93.55(16)	N(4)-N(3)-Cu(2)	116.7(4)	C(22)-C(21)-C(20)	115.6(7)		
O(4)#1-Cu(1)-O(4)	76.71(18)	C(6)-N(4)-N(3)	108.5(5)	C(22)-C(21)-H(21A)	108.4		
N(3)-Cu(2)-N(2)	165.9(2)	C(6)-N(4)-Cu(3)	132.6(5)	C(20)-C(21)-H(21A)	108.4		
N(3)-Cu(2)-O(1)	88.69(19)	N(3)-N(4)-Cu(3)	118.7(4)	C(22)-C(21)-H(21B)	108.4		
N(2)-Cu(2)-O(1)	88.80(19)	C(9)-C(8)-C(7)	104.9(6)	C(20)-C(21)-H(21B)	108.4		
N(3)-Cu(2)-N(7)	92.5(2)	C(9)-C(8)-H(8)	127.6	H(21A)-C(21)-H(21B)	107.4		
N(2)-Cu(2)-N(7)	90.5(2)	C(7)-C(8)-H(8)	127.6	C(21)-C(22)-C(23)	113.6(8)		
O(1)-Cu(2)-N(7)	177.9(2)	N(5)-C(7)-C(8)	110.2(6)	C(21)-C(22)-H(22A)	108.8		

N(3)-Cu(2)-O(6)	92.78(19)	N(5)-C(7)-H(7)	124.9	C(23)-C(22)-H(22A)	108.8
N(2)-Cu(2)-O(6)	100.7(2)	C(8)-C(7)-H(7)	124.9	C(21)-C(22)-H(22B)	108.8
O(1)-Cu(2)-O(6)	84.69(17)	N(6)-C(9)-C(8)	109.8(6)	C(23)-C(22)-H(22B)	108.8
N(7)-Cu(2)-O(6)	93.50(19)	N(6)-C(9)-H(9)	125.1	H(22A)-C(22)-H(22B)	107.7
N(5)-Cu(3)-N(4)	176.0(2)	C(8)-C(9)-H(9)	125.1	C(26)-C(27)-C(28)	112.7(7)
N(5)-Cu(3)-O(2)	92.6(2)	C(7)-N(5)-N(6)	107.1(5)	C(26)-C(27)-H(27B)	109.1
N(4)-Cu(3)-O(2)	90.5(2)	C(7)-N(5)-Cu(3)	129.7(5)	C(28)-C(27)-H(27B)	109.1
N(5)-Cu(3)-O(1)	88.84(19)	N(6)-N(5)-Cu(3)	122.1(4)	C(26)-C(27)-H(27A)	109.1
N(4)-Cu(3)-O(1)	87.64(19)	C(9)-N(6)-N(5)	108.1(5)	C(28)-C(27)-H(27A)	109.1
O(2)-Cu(3)-O(1)	169.99(18)	C(9)-N(6)-Cu(1)	131.9(5)	H(27B)-C(27)-H(27A)	107.8
C(16)-C(15)-C(19)	117.6(6)	N(5)-N(6)-Cu(1)	119.3(4)	C(27)-C(28)-C(29)	111.4(9)
C(16)-C(15)-C(12)	121.2(6)	N(4)-C(6)-C(5)	109.9(6)	C(27)-C(28)-H(28A)	109.3
C(19)-C(15)-C(12)	121.2(6)	N(4)-C(6)-H(6)	125.0	C(29)-C(28)-H(28A)	109.3
C(15)-C(16)-C(17)	118.7(7)	C(5)-C(6)-H(6)	125.0	C(27)-C(28)-H(28B)	109.3
C(15)-C(16)-H(16)	120.7	C(3)-N(2)-N(1)	106.5(5)	C(29)-C(28)-H(28B)	109.3
C(17)-C(16)-H(16)	120.7	C(3)-N(2)-Cu(2)	131.9(5)	H(28A)-C(28)-H(28B)	108.0
N(8)-C(17)-C(16)	124.9(7)	N(1)-N(2)-Cu(2)	121.2(4)	C(30)-O(6)-Cu(2)	123.6(4)
N(8)-C(17)-H(17)	117.6	C(1)-N(1)-N(2)	108.2(5)	C(30)-O(6)-H(6O)	109(5)
C(16)-C(17)-H(17)	117.6	C(1)-N(1)-Cu(1)	131.3(5)	Cu(2)-O(6)-H(6O)	126(5)
N(8)-C(18)-C(19)	124.2(7)	N(2)-N(1)-Cu(1)	120.4(4)	O(6)-C(30)-H(30A)	109.5
N(8)-C(18)-H(18)	117.9	N(1)-C(1)-C(2)	110.9(6)	O(6)-C(30)-H(30B)	109.5
C(19)-C(18)-H(18)	117.9	N(1)-C(1)-H(1)	124.5	H(30A)-C(30)-H(30B)	109.5
C(15)-C(19)-C(18)	119.1(7)	C(2)-C(1)-H(1)	124.5	O(6)-C(30)-H(30C)	109.5
C(15)-C(19)-H(19)	120.4	C(1)-C(2)-C(3)	103.5(6)	H(30A)-C(30)-H(30C)	109.5
C(18)-C(19)-H(19)	120.4	C(1)-C(2)-H(2)	128.3	H(30B)-C(30)-H(30C)	109.5
C(11)-C(12)-C(13)	117.0(6)	C(3)-C(2)-H(2)	128.3	C(28)-C(29)-H(29C)	109.5
C(11)-C(12)-C(15)	122.7(6)	N(2)-C(3)-C(2)	110.8(6)	C(28)-C(29)-H(29B)	109.5
C(13)-C(12)-C(15)	120.2(6)	N(2)-C(3)-H(3)	124.6	H(29C)-C(29)-H(29B)	109.5
C(14)-C(13)-C(12)	120.0(6)	C(2)-C(3)-H(3)	124.6	C(28)-C(29)-H(29A)	109.5
C(14)-C(13)-H(13)	120.0	Cu(1)-O(1)-Cu(2)	116.4(2)	H(29C)-C(29)-H(29A)	109.5
C(12)-C(13)-H(13)	120.0	Cu(1)-O(1)-Cu(3)	117.26(19)	H(29B)-C(29)-H(29A)	109.5
C(12)-C(11)-C(10)	120.8(6)	Cu(2)-O(1)-Cu(3)	105.72(18)	C(22)-C(23)-C(24)	112.2(10)
C(12)-C(11)-H(11)	119.6	Cu(1)-O(1)-H(111)	108(4)	C(22)-C(23)-H(23A)	109.2
C(10)-C(11)-H(11)	119.6	Cu(2)-O(1)-H(111)	102(4)	C(24)-C(23)-H(23A)	109.2
N(7)-C(10)-C(11)	122.1(6)	Cu(3)-O(1)-H(111)	105(4)	C(22)-C(23)-H(23B)	109.2
N(7)-C(10)-H(10)	119.0	C(20)-O(2)-Cu(3)	119.1(4)	C(24)-C(23)-H(23B)	109.2
C(11)-C(10)-H(10)	119.0	C(25)-O(4)-Cu(1)#1	132.7(4)	H(23A)-C(23)-H(23B)	107.9
N(7)-C(14)-C(13)	121.9(6)	C(25)-O(4)-Cu(1)	123.8(4)	C(23)-C(24)-H(24C)	109.5
N(7)-C(14)-H(14)	119.1	Cu(1)#1-O(4)-Cu(1)	103.29(18)	C(23)-C(24)-H(24B)	109.5
C(13)-C(14)-H(14)	119.1	O(5)-C(25)-O(4)	122.5(6)	H(24C)-C(24)-H(24B)	109.5
C(17)-N(8)-C(18)	115.5(6)	O(5)-C(25)-C(26)	119.4(6)	C(23)-C(24)-H(24A)	109.5
C(10)-N(7)-C(14)	118.2(6)	(4)-C(25)-C(26)	118.0(5)	H(24C)-C(24)-H(24A)	109.5
C(10)-N(7)-Cu(2)	121.9(5)	C(25)-C(26)-C(27)	114.3(6)	H(24B)-C(24)-H(24A)	109.5
C(14)-N(7)-Cu(2)	119.8(4)				

Symmetry transformations used to generate equivalent atoms:

#1 -x+1,-y,-z+1

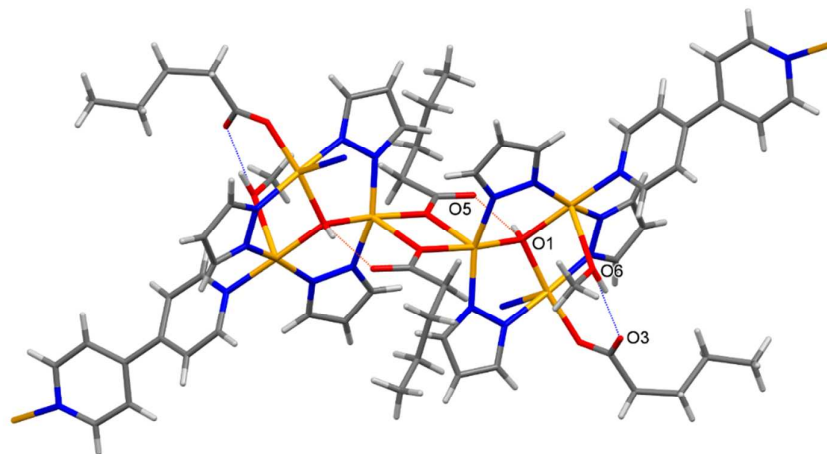


Figure S5 – Intra and intermolecular (blue and red dotted lines, respectively) H-bonds likely reinforcing the hexanuclear assembly of **3**.

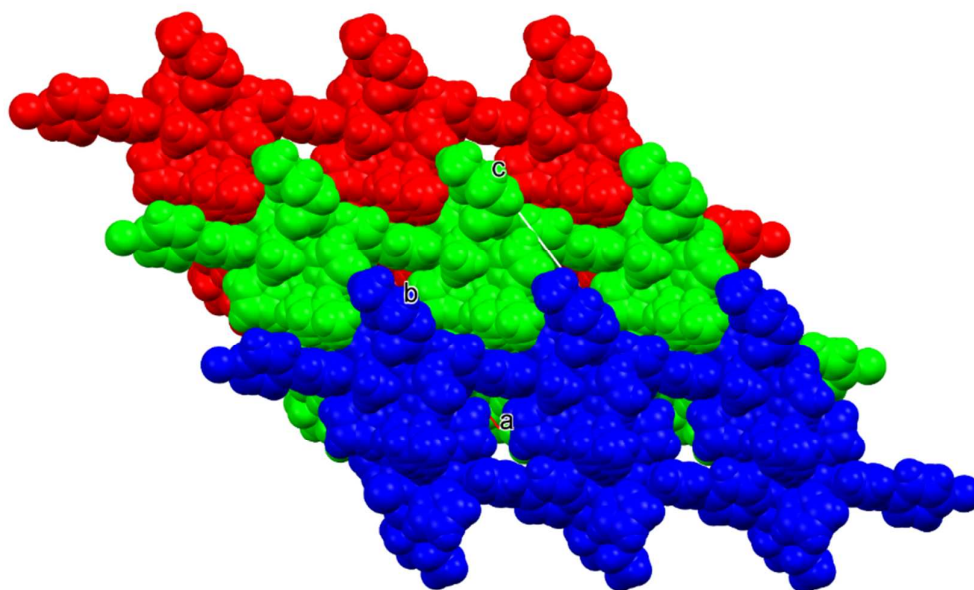


Figure S6 – Crystal packing evidencing the offset disposition of parallel tapes of **3**. Different colors indicate different tapes.

Table S3 – Bond lengths [Å] and angles [deg] for 4.

Cu(1)-N(1)	1.959(3)	O(5)-C(20)	1.224(7)	C(3)-H(3)	0.9500	C(3)-H(3)	0.9500
Cu(1)-N(6)	1.969(3)	N(4)-C(6)	1.348(6)	C(16)-C(15)	1.389(5)	C(16)-C(15)	1.389(5)
Cu(1)-N(7)	2.042(3)	N(4)-N(3)	1.356(5)	C(16)-H(16)	0.9500	C(16)-H(16)	0.9500
Cu(1)-O(1)	2.043(2)	C(17)-C(18)	1.388(5)	C(11)-H(11)	0.9500	C(11)-H(11)	0.9500
Cu(1)-O(3)	2.175(3)	C(17)-C(16)	1.388(5)	C(20)-C(21)	1.499(8)	C(20)-C(21)	1.499(8)
Cu(3)-N(5)	1.946(3)	C(17)-C(17)#1	1.489(6)	C(15)-H(15)	0.9500	C(15)-H(15)	0.9500
Cu(3)-N(4)	1.946(3)	N(3)-C(4)	1.349(5)	C(4)-C(5)	1.380(8)	C(4)-C(5)	1.380(8)
Cu(3)-O(4)	1.962(3)	C(9)-C(8)	1.387(5)	C(4)-H(4)	0.9500	C(4)-H(4)	0.9500
Cu(3)-O(1)	1.983(2)	C(9)-H(9)	0.9500	C(6)-C(5)	1.378(7)	C(6)-C(5)	1.378(7)
Cu(2)-N(2)	1.961(3)	C(8)-C(7)	1.382(6)	C(6)-H(6)	0.9500	C(6)-H(6)	0.9500
Cu(2)-N(3)	1.965(4)	C(8)-H(8)	0.9500	C(32)-H(32A)	0.9800	C(32)-H(32A)	0.9800
Cu(2)-N(8)	2.028(3)	C(12)-C(11)	1.388(5)	C(32)-H(32B)	0.9800	C(32)-H(32B)	0.9800
Cu(2)-O(1)	2.048(2)	C(12)-C(13)	1.397(5)	C(32)-H(32C)	0.9800	C(32)-H(32C)	0.9800
Cu(2)-O(2)	2.154(3)	C(12)-C(12)#2	1.491(7)	C(21)-C(22)	1.449(10)	C(21)-C(22)	1.449(10)
O(1)-C(32)	1.447(5)	C(10)-C(11)	1.385(5)	C(21)-H(21A)	0.9900	C(21)-H(21A)	0.9900
O(3)-C(26)	1.255(4)	C(10)-H(10)	0.9500	C(21)-H(21B)	0.9900	C(21)-H(21B)	0.9900
O(4)-C(20)	1.299(6)	C(1)-C(2)	1.373(6)	C(5)-H(5)	0.9500	C(5)-H(5)	0.9500
O(2)-C(26)	1.260(4)	C(1)-H(1)	0.9500	C(22)-C(23)	1.520(13)	C(22)-C(23)	1.520(13)
N(7)-C(14)	1.337(5)	C(18)-C(19)	1.389(5)	C(22)-H(22A)	0.9900	C(22)-H(22A)	0.9900
N(7)-C(10)	1.336(5)	C(18)-H(18)	0.9500	C(22)-H(22B)	0.9900	C(22)-H(22B)	0.9900
N(6)-C(9)	1.342(5)	C(7)-H(7)	0.9500	C(23)-C(24)	1.544(11)	C(23)-C(24)	1.544(11)
N(6)-N(5)	1.366(4)	C(13)-C(14)	1.381(5)	C(23)-H(23A)	0.9900	C(23)-H(23A)	0.9900
N(5)-C(7)	1.344(5)	C(13)-H(13)	0.9500	C(23)-H(23B)	0.9900	C(23)-H(23B)	0.9900
N(8)-C(19)	1.334(5)	C(19)-H(19)	0.9500	C(24)-C(25)	1.597(11)	C(24)-C(25)	1.597(11)
N(8)-C(15)	1.332(5)	C(14)-H(14)	0.9500	C(24)-H(24A)	0.9900	C(24)-H(24A)	0.9900
N(1)-C(1)	1.345(5)	C(2)-C(3)	1.386(6)	C(24)-H(24B)	0.9900	C(24)-H(24B)	0.9900
N(1)-N(2)	1.370(4)	C(2)-H(2)	0.9500	C(25)-C(24)#3	1.597(11)	C(25)-C(24)#3	1.597(11)
N(2)-C(3)	1.336(5)						
N(1)-Cu(1)-N(6)	161.38(13)	C(11)-C(12)-C(12)#2	122.1(4)	C(22)-C(23)-H(23A)	108.3		
N(1)-Cu(1)-N(7)	89.29(12)	C(13)-C(12)-C(12)#2	121.3(4)	C(24)-C(23)-H(23A)	108.3		
N(6)-Cu(1)-N(7)	94.53(12)	N(7)-C(10)-C(11)	123.0(3)	C(22)-C(23)-H(23B)	108.3		
N(1)-Cu(1)-O(1)	87.47(11)	N(7)-C(10)-H(10)	118.5	C(24)-C(23)-H(23B)	108.3		
N(6)-Cu(1)-O(1)	87.61(11)	C(11)-C(10)-H(10)	118.5	H(23A)-C(23)-H(23B)	107.4		
N(7)-Cu(1)-O(1)	175.58(11)	N(1)-C(1)-C(2)	110.1(4)	C(23)-C(24)-C(25)	103.3(8)		
N(1)-Cu(1)-O(3)	103.16(11)	N(1)-C(1)-H(1)	124.9	C(23)-C(24)-H(24A)	111.1		
N(6)-Cu(1)-O(3)	94.76(12)	C(2)-C(1)-H(1)	124.9	C(25)-C(24)-H(24A)	111.1		
N(7)-Cu(1)-O(3)	93.93(11)	C(17)-C(18)-C(19)	119.9(4)	C(23)-C(24)-H(24B)	111.1		
O(1)-Cu(1)-O(3)	89.73(10)	C(17)-C(18)-H(18)	120.1	C(25)-C(24)-H(24B)	111.1		
N(5)-Cu(3)-N(4)	176.29(14)	C(19)-C(18)-H(18)	120.1	H(24A)-C(24)-H(24B)	109.1		
N(5)-Cu(3)-O(4)	91.13(12)	N(5)-C(7)-C(8)	110.2(3)	C(24)-C(25)-C(24)#3	180.000(2)		
N(4)-Cu(3)-O(4)	91.12(14)	N(5)-C(7)-H(7)	124.9	O(3)-C(26)-O(2)	125.6(4)		
N(5)-Cu(3)-O(1)	88.87(11)	C(8)-C(7)-H(7)	124.9	O(3)-C(26)-C(27)	116.6(3)		
N(4)-Cu(3)-O(1)	89.00(13)	C(14)-C(13)-C(12)	119.7(3)	O(2)-C(26)-C(27)	117.8(3)		
O(4)-Cu(3)-O(1)	177.74(11)	C(14)-C(13)-H(13)	120.2	C(28B)-C(27)-C(28)	89.9(5)		
N(2)-Cu(2)-N(3)	163.97(15)	C(12)-C(13)-H(13)	120.2	C(28B)-C(27)-C(26)	111.2(5)		
N(2)-Cu(2)-N(8)	92.92(13)	N(8)-C(19)-C(18)	122.6(4)	C(28)-C(27)-C(26)	118.5(4)		
N(3)-Cu(2)-N(8)	89.33(14)	N(8)-C(19)-H(19)	118.7	C(28B)-C(27)-H(27A)	121.7		
N(2)-Cu(2)-O(1)	87.37(11)	C(18)-C(19)-H(19)	118.7	C(28)-C(27)-H(27A)	107.7		
N(3)-Cu(2)-O(1)	87.13(12)	N(7)-C(14)-C(13)	123.4(4)	C(26)-C(27)-H(27A)	107.7		
N(8)-Cu(2)-O(1)	167.84(12)	N(7)-C(14)-H(14)	118.3	C(28B)-C(27)-H(27B)	19.6		
N(2)-Cu(2)-O(2)	100.76(13)	C(13)-C(14)-H(14)	118.3	C(28)-C(27)-H(27B)	107.7		
N(3)-Cu(2)-O(2)	94.88(14)	C(1)-C(2)-C(3)	104.7(4)	C(26)-C(27)-H(27B)	107.7		
N(8)-Cu(2)-O(2)	94.29(12)	C(1)-C(2)-H(2)	127.7	H(27A)-C(27)-H(27B)	107.1		
O(1)-Cu(2)-O(2)	97.60(10)	C(3)-C(2)-H(2)	127.7	C(27)-C(28)-C(29)	114.8(6)		
C(32)-O(1)-Cu(3)	105.4(2)	N(2)-C(3)-C(2)	109.9(4)	C(27)-C(28)-H(28A)	108.6		
C(32)-O(1)-Cu(1)	112.6(2)	N(2)-C(3)-H(3)	125.1	C(29)-C(28)-H(28A)	108.6		
Cu(3)-O(1)-Cu(1)	111.10(11)	C(2)-C(3)-H(3)	125.1	C(27)-C(28)-H(28B)	108.6		
C(32)-O(1)-Cu(2)	109.0(2)	C(15)-C(16)-C(17)	119.5(4)	C(29)-C(28)-H(28B)	108.6		
Cu(3)-O(1)-Cu(2)	112.72(11)	C(15)-C(16)-H(16)	120.3	H(28A)-C(28)-H(28B)	107.6		

Cu(1)-O(1)-Cu(2)	106.22(11)	C(17)-C(16)-H(16)	120.3	C(30)-C(29)-C(28)	115.7(7)
C(26)-O(3)-Cu(1)	130.6(2)	C(12)-C(11)-C(10)	120.1(4)	C(30)-C(29)-H(29A)	108.4
C(20)-O(4)-Cu(3)	105.6(3)	C(12)-C(11)-H(11)	119.9	C(28)-C(29)-H(29A)	108.4
C(26)-O(2)-Cu(2)	127.5(2)	C(10)-C(11)-H(11)	119.9	C(30)-C(29)-H(29B)	108.4
C(14)-N(7)-C(10)	117.2(3)	O(5)-C(20)-O(4)	122.3(4)	C(28)-C(29)-H(29B)	108.4
C(14)-N(7)-Cu(1)	117.5(2)	O(5)-C(20)-C(21)	121.2(6)	H(29A)-C(29)-H(29B)	107.4
C(10)-N(7)-Cu(1)	124.3(2)	O(4)-C(20)-C(21)	116.4(6)	C(31)-C(30)-C(29)	108.9(8)
C(9)-N(6)-N(5)	107.9(3)	N(8)-C(15)-C(16)	123.1(4)	C(31)-C(30)-H(30A)	109.9
C(9)-N(6)-Cu(1)	133.8(3)	N(8)-C(15)-H(15)	118.5	C(29)-C(30)-H(30A)	109.9
(5)-N(6)-Cu(1)	117.7(2)	C(16)-C(15)-H(15)	118.5	C(31)-C(30)-H(30B)	109.9
C(7)-N(5)-N(6)	107.6(3)	N(3)-C(4)-C(5)	109.9(4)	C(29)-C(30)-H(30B)	109.9
C(7)-N(5)-Cu(3)	130.5(3)	N(3)-C(4)-H(4)	125.0	H(30A)-C(30)-H(30B)	108.3
N(6)-N(5)-Cu(3)	121.8(2)	C(5)-C(4)-H(4)	125.0	C(30)-C(31)-C(30)#4	180.000(6)
(19)-N(8)-C(15)	117.8(3)	N(4)-C(6)-C(5)	109.1(5)	C(27)-C(28B)-C(29B)	113.9(7)
C(19)-N(8)-Cu(2)	122.1(3)	N(4)-C(6)-H(6)	125.4	C(27)-C(28B)-H(28C)	108.8
C(15)-N(8)-Cu(2)	119.5(3)	C(5)-C(6)-H(6)	125.4	C(29B)-C(28B)-H(28C)	108.8
C(1)-N(1)-N(2)	107.4(3)	O(1)-C(32)-H(32A)	109.5	C(27)-C(28B)-H(28D)	108.8
C(1)-N(1)-Cu(1)	132.4(3)	O(1)-C(32)-H(32B)	109.5	C(29B)-C(28B)-H(28D)	108.8
(2)-N(1)-Cu(1)	120.1(2)	H(32A)-C(32)-H(32B)	109.5	H(28C)-C(28B)-H(28D)	107.7
C(3)-N(2)-N(1)	107.9(3)	O(1)-C(32)-H(32C)	109.5	C(30B)-C(29B)-C(28B)	113.0(8)
C(3)-N(2)-Cu(2)	134.2(3)	H(32A)-C(32)-H(32C)	109.5	C(30B)-C(29B)-H(29C)	109.0
N(1)-N(2)-Cu(2)	117.8(2)	H(32B)-C(32)-H(32C)	109.5	C(28B)-C(29B)-H(29C)	109.0
C(6)-N(4)-N(3)	108.7(4)	C(22)-C(21)-C(20)	119.2(7)	C(30B)-C(29B)-H(29D)	109.0
C(6)-N(4)-Cu(3)	129.3(3)	C(22)-C(21)-H(21A)	107.5	C(28B)-C(29B)-H(29D)	109.0
N(3)-N(4)-Cu(3)	121.7(3)	C(20)-C(21)-H(21A)	107.5	H(29C)-C(29B)-H(29D)	107.8
C(18)-C(17)-C(16)	117.1(3)	C(22)-C(21)-H(21B)	107.5	C(29B)-C(30B)-C(31B)	104.5(10)
C(18)-C(17)-C(17)#1	122.0(4)	C(20)-C(21)-H(21B)	107.5	C(29B)-C(30B)-H(30C)	110.9
C(16)-C(17)-C(17)#1	120.9(4)	H(21A)-C(21)-H(21B)	107.0	C(31B)-C(30B)-H(30C)	110.9
C(4)-N(3)-N(4)	107.2(4)	C(6)-C(5)-C(4)	105.0(4)	C(29B)-C(30B)-H(30D)	110.9
C(4)-N(3)-Cu(2)	133.2(3)	C(6)-C(5)-H(5)	127.5	C(31B)-C(30B)-H(30D)	110.9
N(4)-N(3)-Cu(2)	119.2(2)	C(4)-C(5)-H(5)	127.5	H(30C)-C(30B)-H(30D)	108.9
N(6)-C(9)-C(8)	110.0(3)	C(21)-C(22)-C(23)	112.9(8)	C(30B)-C(31B)-H(31A)	109.5
N(6)-C(9)-H(9)	125.0	C(21)-C(22)-H(22A)	109.0	C(30B)-C(31B)-H(31B)	109.5
C(8)-C(9)-H(9)	125.0	C(23)-C(22)-H(22A)	109.0	H(31A)-C(31B)-H(31B)	109.5
C(7)-C(8)-C(9)	104.3(3)	C(21)-C(22)-H(22B)	109.0	C(30B)-C(31B)-H(31C)	109.5
C(7)-C(8)-H(8)	127.9	C(23)-C(22)-H(22B)	109.0	H(31A)-C(31B)-H(31C)	109.5
C(9)-C(8)-H(8)	127.9	H(22A)-C(22)-H(22B)	107.8	H(31B)-C(31B)-H(31C)	109.5
C(11)-C(12)-C(13)	116.6(3)	C(22)-C(23)-C(24)	116.0(9)		

Symmetry transformations used to generate equivalent atoms:

#1 -x-1,-y+1,-z+2 #2 -x+1,-y+2,-z+1 #3 -x+2,-y,-z+1 #4 -x+1,-y+2,-z+2

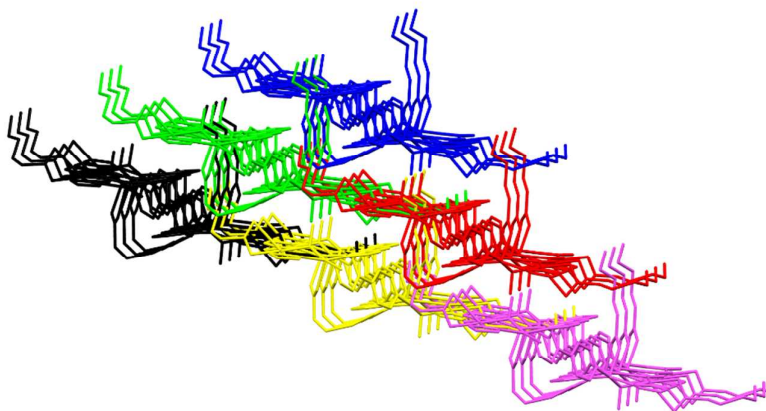


Figure S7 – Crystal packing of **4** evidencing the interdigitation among differently colored 1D CPs. H atoms have been omitted for clarity.

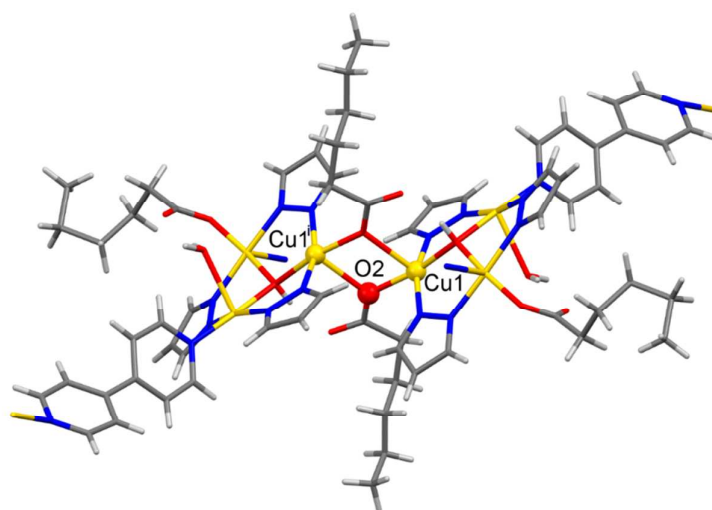


Figure S8 – Hexanuclear assembly of compound **5**.

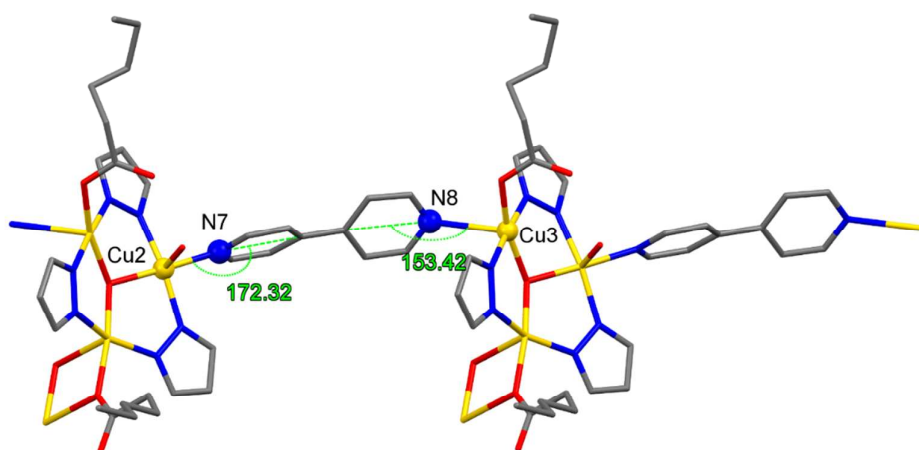


Figure S9 – Angles formed by Cu-N_{bpy} bonds and pyridinic rings in **5**.

Table S4 – Bond lengths [Å] and angles [deg] for **5**.

Cu(1)-N(6)	1.942(9)	N(6)-N(5)	1.364(13)	N(7)-C(22)	1.299(15)	O(2)-Cu(1)#1	2.356(8)
Cu(1)-N(1)	1.956(9)	N(3)-C(4)	1.335(13)	N(7)-C(31)	1.329(15)	O(3)-C(10)	1.228(12)
Cu(1)-O(1)	1.967(7)	N(3)-N(4)	1.355(12)	C(24)-C(30)	1.367(17)	N(8)-C(28)	1.281(16)
Cu(1)-O(2)	1.977(7)	N(4)-C(6)	1.318(15)	C(24)-C(23)	1.397(17)	N(8)-C(27)	1.335(17)
Cu(1)-O(2)#1	2.356(8)	N(2)-C(3)	1.321(15)	C(24)-C(25)	1.454(15)	C(10)-C(11)	1.501(17)
Cu(2)-N(3)	1.942(9)	N(2)-N(1)	1.346(12)	C(25)-C(29)	1.372(16)	C(11)-C(12)	1.54(2)
Cu(2)-N(2)	1.957(10)	N(1)-C(1)	1.319(15)	C(25)-C(26)	1.391(17)	C(12)-C(13)	1.49(3)
Cu(2)-O(1)	2.002(6)	N(5)-C(7)	1.320(15)	C(31)-C(30)	1.396(16)	C(13)-C(14)	1.51(3)
Cu(2)-N(7)	2.032(8)	C(3)-C(2)	1.371(19)	C(23)-C(22)	1.380(16)	C(14)-C(15)	1.47(4)
Cu(2)-O(6)	2.372(9)	C(9)-C(8)	1.378(19)	C(29)-C(28)	1.362(16)	C(16)-C(17)	1.49(2)
Cu(3)-N(5)	1.924(9)	C(7)-C(8)	1.386(18)	C(26)-C(27)	1.371(17)	C(17)-C(18)	1.520(10)
Cu(3)-N(4)	1.937(9)	C(2)-C(1)	1.337(18)	O(5)-C(16)	1.219(15)	C(18)-C(19)	1.540(10)
Cu(3)-O(4)	1.966(8)	C(6)-C(5)	1.360(17)	O(4)-C(16)	1.279(15)	C(19)-C(20)	1.553(9)
Cu(3)-O(1)	2.003(7)	C(4)-C(5)	1.359(18)	O(2)-C(10)	1.289(13)	C(20)-C(21)	1.524(10)
N(6)-C(9)	1.328(14)						
N(6)-Cu(1)-N(1)	158.2(4)	N(5)-N(6)-Cu(1)	120.5(7)	C(29)-C(25)-C(26)	115.0(10)		
N(6)-Cu(1)-O(1)	89.4(3)	C(4)-N(3)-N(4)	107.3(9)	C(29)-C(25)-C(24)	122.9(11)		

N(1)-Cu(1)-O(1)	89.0(3)	C(4)-N(3)-Cu(2)	135.5(8)	C(26)-C(25)-C(24)	121.9(11)
N(6)-Cu(1)-O(2)	93.7(3)	N(4)-N(3)-Cu(2)	116.7(6)	N(7)-C(31)-C(30)	123.5(12)
N(1)-Cu(1)-O(2)	92.5(4)	C(6)-N(4)-N(3)	107.8(9)	C(22)-C(23)-C(24)	120.5(12)
O(1)-Cu(1)-O(2)	167.9(3)	C(6)-N(4)-Cu(3)	132.1(9)	C(24)-C(30)-C(31)	118.7(12)
N(6)-Cu(1)-O(2)#1	103.4(3)	N(3)-N(4)-Cu(3)	120.1(7)	C(28)-C(29)-C(25)	119.7(12)
N(1)-Cu(1)-O(2)#1	98.4(4)	C(3)-N(2)-N(1)	106.5(10)	N(7)-C(22)-C(23)	122.4(12)
O(1)-Cu(1)-O(2)#1	91.9(3)	C(3)-N(2)-Cu(2)	133.0(8)	C(27)-C(26)-C(25)	120.3(12)
O(2)-Cu(1)-O(2)#1	76.0(3)	N(1)-N(2)-Cu(2)	120.4(7)	C(16)-O(4)-Cu(3)	121.4(8)
N(3)-Cu(2)-N(2)	167.3(4)	C(1)-N(1)-N(2)	107.6(9)	C(10)-O(2)-Cu(1)	131.9(7)
N(3)-Cu(2)-O(1)	88.1(3)	C(1)-N(1)-Cu(1)	131.0(8)	C(10)-O(2)-Cu(1)#1	124.1(7)
N(2)-Cu(2)-O(1)	89.3(3)	N(2)-N(1)-Cu(1)	121.3(8)	Cu(1)-O(2)-Cu(1)#1	104.0(3)
N(3)-Cu(2)-N(7)	91.4(4)	C(7)-N(5)-N(6)	107.7(10)	C(28)-N(8)-C(27)	115.4(11)
N(2)-Cu(2)-N(7)	91.5(4)	C(7)-N(5)-Cu(3)	129.7(9)	N(8)-C(28)-C(29)	126.3(13)
O(1)-Cu(2)-N(7)	178.9(4)	N(6)-N(5)-Cu(3)	121.6(7)	N(8)-C(27)-C(26)	123.3(13)
N(3)-Cu(2)-O(6)	94.3(4)	N(2)-C(3)-C(2)	111.1(11)	O(3)-C(10)-O(2)	121.5(11)
N(2)-Cu(2)-O(6)	97.8(4)	N(6)-C(9)-C(8)	109.6(12)	O(3)-C(10)-C(11)	122.0(11)
O(1)-Cu(2)-O(6)	84.4(3)	N(5)-C(7)-C(8)	110.1(13)	O(2)-C(10)-C(11)	116.4(10)
N(7)-Cu(2)-O(6)	94.7(4)	C(1)-C(2)-C(3)	103.1(12)	C(10)-C(11)-C(12)	114.0(14)
N(5)-Cu(3)-N(4)	176.6(4)	N(1)-C(1)-C(2)	111.7(12)	C(13)-C(12)-C(11)	114(2)
N(5)-Cu(3)-O(4)	91.0(4)	C(9)-C(8)-C(7)	104.2(11)	C(14)-C(13)-C(12)	114(3)
N(4)-Cu(3)-O(4)	92.0(4)	N(4)-C(6)-C(5)	110.3(12)	C(15)-C(14)-C(13)	109(3)
N(5)-Cu(3)-O(1)	89.3(3)	N(3)-C(4)-C(5)	109.8(11)	O(5)-C(16)-O(4)	123.8(12)
N(4)-Cu(3)-O(1)	87.4(3)	C(4)-C(5)-C(6)	104.8(11)	O(5)-C(16)-C(17)	121.3(15)
O(4)-Cu(3)-O(1)	167.6(3)	C(22)-N(7)-C(31)	118.1(10)	O(4)-C(16)-C(17)	114.8(14)
Cu(1)-O(1)-Cu(2)	115.7(3)	C(22)-N(7)-Cu(2)	117.7(8)	C(16)-C(17)-C(18)	115.5(13)
Cu(1)-O(1)-Cu(3)	116.9(3)	C(31)-N(7)-Cu(2)	124.0(8)	C(17)-C(18)-C(19)	112.5(12)
Cu(2)-O(1)-Cu(3)	106.0(3)	C(30)-C(24)-C(23)	116.7(11)	C(18)-C(19)-C(20)	114.9(10)
C(9)-N(6)-N(5)	108.2(10)	C(30)-C(24)-C(25)	122.8(11)	C(21)-C(20)-C(19)	114.9(11)
C(9)-N(6)-Cu(1)	131.1(9)	C(23)-C(24)-C(25)	120.4(11)		

Symmetry transformations used to generate equivalent atoms:

#1 -x,-y+2,-z+2

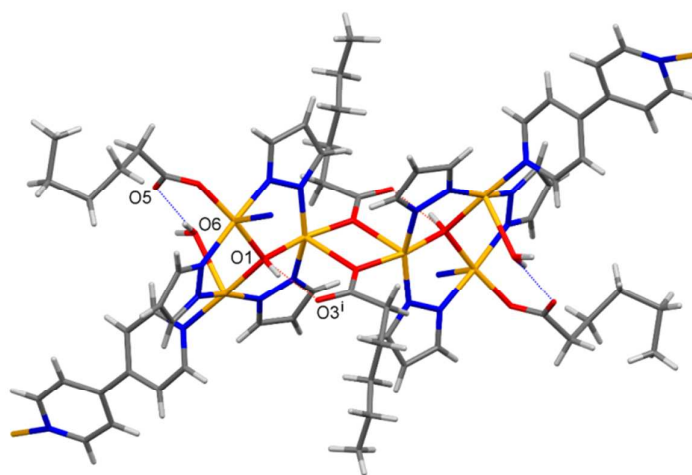


Figure S10 – Intra and intermolecular (blue and red dotted lines, respectively) H-bonds likely reinforcing the hexanuclear assembly of **5**.

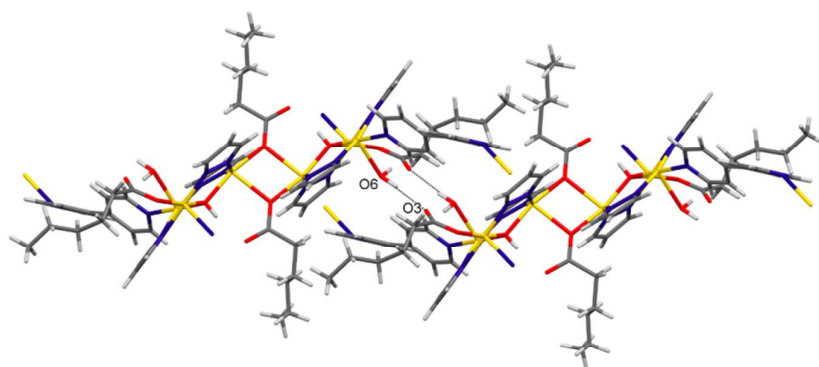


Figure S11 – Intermolecular H-bonds (blue dotted lines) joining adjacent tapes of **5**.

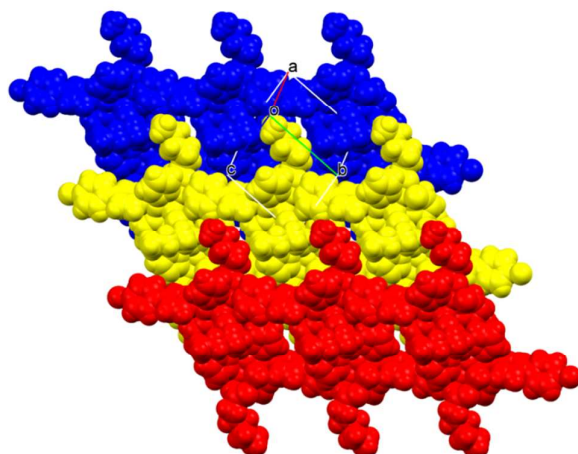


Figure S12 – Crystal packing of **5** evidencing the offset disposition of parallel tapes. Different colors indicate different tapes.

Table S5 – Bond lengths [Å] and angles [deg] for **6**.

Cu(2)-N(2)	1.901(14)	N(7)-C(28)	1.305(18)	N(3)-C(4)	1.387(17)	C(10)-C(11)	1.52(2)
Cu(2)-N(3)	1.934(11)	N(7)-C(24)	1.325(19)	N(4)-C(6)	1.301(19)	C(11)-C(12)	1.477(16)
Cu(2)-O(1)	1.947(9)	C(28)-C(27)	1.371(19)	C(6)-C(5)	1.41(2)	C(12)-C(13)	1.485(16)
Cu(2)-N(7)	1.994(11)	C(26)-C(25)	1.34(2)	N(6)-C(9)	1.336(18)	C(4)-C(5)	1.33(2)
Cu(1)-N(6)	1.888(14)	C(26)-C(27)	1.38(2)	N(6)-N(5)	1.373(17)	C(18)-C(19)	1.48(3)
Cu(1)-N(1)	1.918(14)	C(26)-C(26)#2	1.48(2)	N(5)-C(7)	1.37(2)	C(7)-C(8)	1.38(2)
Cu(1)-O(2)	1.959(9)	C(25)-C(24)	1.40(2)	O(4)-C(17)	1.31(2)	C(20)-C(19)	1.44(3)
Cu(1)-O(1)	1.978(9)	N(1)-C(1)	1.29(2)	O(2)-C(10)	1.251(17)	C(20)-C(21)	1.55(4)
Cu(1)-O(2)#1	2.304(10)	N(1)-N(2)	1.386(15)	O(2)-Cu(1)#1	2.304(10)	C(21)-C(22)	1.48(3)
Cu(3)-N(5)	1.901(13)	N(2)-C(3)	1.32(2)	C(9)-C(8)	1.36(3)	C(22)-C(23)	1.505(18)
Cu(3)-O(4)	1.936(14)	C(1)-C(2)	1.44(2)	C(17)-O(5)	1.21(2)	C(13)-C(14)	1.451(17)
Cu(3)-N(4)	1.946(12)	C(3)-C(2)	1.30(2)	C(17)-C(18)	1.50(3)	C(15)-C(14)	1.46(3)
Cu(3)-O(1)	1.977(11)	N(3)-N(4)	1.333(17)	C(10)-O(3)	1.221(16)	C(15)-C(16)	1.488(18)
N(2)-Cu(2)-N(3)	179.0(6)	C(27)-C(26)-C(26)#2	120.0(17)	N(6)-N(5)-Cu(3)	123.4(11)		
N(2)-Cu(2)-O(1)	90.8(5)	C(26)-C(25)-C(24)	118.9(16)	C(17)-O(4)-Cu(3)	106.3(13)		
N(3)-Cu(2)-O(1)	88.2(5)	C(28)-C(27)-C(26)	119.0(16)	C(10)-O(2)-Cu(1)	132.7(10)		
N(2)-Cu(2)-N(7)	90.1(5)	N(7)-C(24)-C(25)	122.3(16)	C(10)-O(2)-Cu(1)#1	127.0(9)		
N(3)-Cu(2)-N(7)	90.9(5)	C(1)-N(1)-N(2)	107.7(14)	Cu(1)-O(2)-Cu(1)#1	100.3(4)		

O(1)-Cu(2)-N(7)	176.9(5)	C(1)-N(1)-Cu(1)	131.3(11)	N(6)-C(9)-C(8)	109.7(19)
N(6)-Cu(1)-N(1)	159.9(6)	N(2)-N(1)-Cu(1)	121.0(11)	O(5)-C(17)-O(4)	121(2)
N(6)-Cu(1)-O(2)	90.9(5)	C(3)-N(2)-N(1)	104.7(13)	O(5)-C(17)-C(18)	122(2)
N(1)-Cu(1)-O(2)	92.1(5)	C(3)-N(2)-Cu(2)	134.7(11)	O(4)-C(17)-C(18)	116(2)
N(6)-Cu(1)-O(1)	90.9(5)	N(1)-N(2)-Cu(2)	120.5(11)	O(3)-C(10)-O(2)	122.9(16)
N(1)-Cu(1)-O(1)	89.6(5)	N(1)-C(1)-C(2)	110.5(16)	O(3)-C(10)-C(11)	120.3(15)
O(2)-Cu(1)-O(1)	169.8(4)	C(2)-C(3)-N(2)	115.9(17)	O(2)-C(10)-C(11)	116.8(13)
N(6)-Cu(1)-O(2)#1	101.7(5)	Cu(2)-O(1)-Cu(1)	116.6(5)	C(12)-C(11)-C(10)	114.7(15)
N(1)-Cu(1)-O(2)#	198.4(5)	Cu(2)-O(1)-Cu(3)	115.5(4)	C(13)-C(12)-C(11)	120.7(16)
O(2)-Cu(1)-O(2)#	179.7(4)	Cu(1)-O(1)-Cu(3)	116.3(5)	C(5)-C(4)-N(3)	106.8(16)
O(1)-Cu(1)-O(2)#	190.1(4)	N(4)-N(3)-C(4)	108.3(13)	C(19)-C(18)-C(17)	116(2)
N(5)-Cu(3)-O(4)	91.9(6)	N(4)-N(3)-Cu(2)	120.1(9)	N(5)-C(7)-C(8)	107.4(18)
N(5)-Cu(3)-N(4)	169.7(6)	C(4)-N(3)-Cu(2)	131.0(12)	C(19)-C(20)-C(21)	111(3)
O(4)-Cu(3)-N(4)	92.2(6)	C(6)-N(4)-N(3)	109.8(13)	C(20)-C(19)-C(18)	116(3)
N(5)-Cu(3)-O(1)	89.2(5)	C(6)-N(4)-Cu(3)	128.9(13)	C(22)-C(21)-C(20)	112(3)
O(4)-Cu(3)-O(1)	175.1(5)	N(3)-N(4)-Cu(3)	121.3(10)	C(23)-C(22)-C(21)	117(3)
N(4)-Cu(3)-O(1)	87.6(5)	N(4)-C(6)-C(5)	107.7(17)	C(3)-C(2)-C(1)	101.0(18)
C(28)-N(7)-C(24)	118.2(13)	C(9)-N(6)-N(5)	107.8(16)	C(4)-C(5)-C(6)	107.3(18)
C(28)-N(7)-Cu(2)	123.5(10)	C(9)-N(6)-Cu(1)	132.6(15)	C(9)-C(8)-C(7)	107.2(19)
C(24)-N(7)-Cu(2)	118.0(11)	N(5)-N(6)-Cu(1)	119.6(10)	C(12)-C(13)-C(14)	122.2(18)
N(7)-C(28)-C(27)	122.9(15)	C(7)-N(5)-N(6)	107.8(13)	C(14)-C(15)-C(16)	114(2)
C(25)-C(26)-C(27)	118.7(13)	C(7)-N(5)-Cu(3)	128.8(13)	C(15)-C(14)-C(13)	117(2)
C(25)-C(26)-C(26)#2	121.3(17)				

Symmetry transformations used to generate equivalent atoms:

#1 -x+1,-y+2,-z+1 #2 -x,-y+1,-z+1

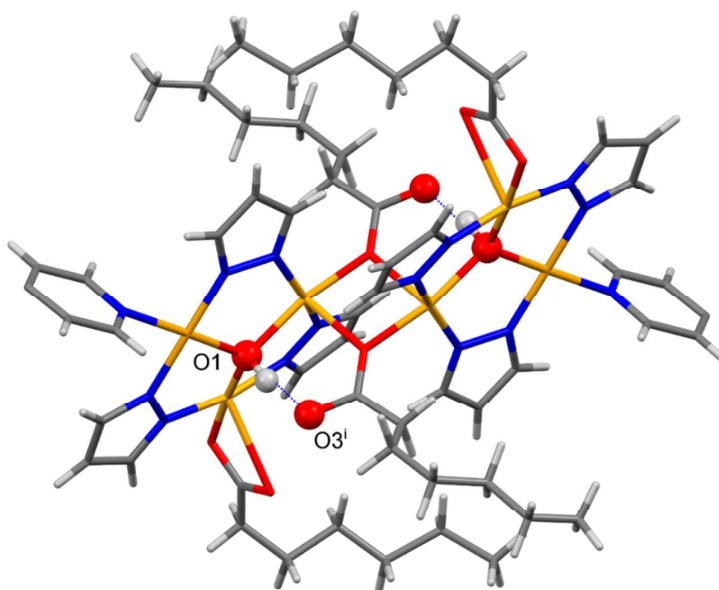


Figure S13 – Intermolecular (blue dotted lines) H-bonds likely reinforcing the hexanuclear assembly of **6**.

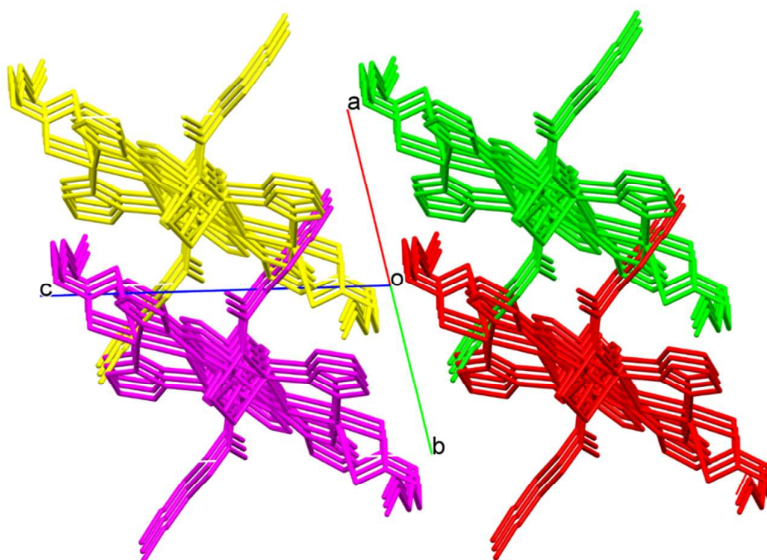


Figure S14 – Crystal packing of **6** evidencing the interdigitation among 1D CPs. Different colors indicate different 1D CPs. H atoms have been omitted for clarity.