

**Structural relationship of two coordination polymers of Cu(I) with the ligand ethanediyi
bis(isonicotinate)**

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Keywords: Coordination polymers, Cu(I), structure elucidation, structure prediction, crystal engineering

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Table S1: Single Crystal Data of **1**, **2**, and **3**

Figure S1: Side view of **2**, showing H-bonds Cl...H between the chains

Figure S2: Same as S1, but rotated by 90°, view from below

Figure S3: Colour picture of figure 3c: light blue: Cu, violet: Cl, green: N, red: O, grey: carbon, white: H

Figure S4: Colour picture of figure 3d, same colour code as in S3

Table S1 Crystallographic data

Compound	1	2	3
Formula	C ₁₄ H ₁₂ N ₂ O ₄	C ₁₄ H ₁₂ N ₂ O ₄ CuCl	C ₃₂ H ₃₂ N ₄ O ₉ Cu ₂ Cl ₂
<i>M</i>	272.26	371.26	814.60
Crystal group	Monoclinic	Monoclinic	Triclinic
Space group	P2 ₁ /c	C2/c	P-1
<i>a</i> /Å	6.9688(11)	11.4740(11)	6.9874(10)
b /Å	10.6469(14)	11.5821(14)	11.7096(19)
<i>c</i> /Å	8.8115(14)	10.9650(14)	11.8247(17)
<i>a</i> /Å	-	-	112.339(17)
$\beta/^\circ$	109.047(18)	106.670(18)	96.728(17)
$\gamma/^\circ$	-	-	102.930(18)
<i>U</i> /Å ³	617.99(16)	1395.9(3)	850.0(2)
Z	2	2	1
<i>D</i> _c /g.cm ⁻³	1.463	1.766	1.591
μ (Mo-Kα)/mm ⁻¹	0.109	1.775	1.468
Reflections collected	6383	5896	7365
Independant reflections, <i>R</i> _{int} ^a	1393, 0.0425	1655, 0.0596	3106, 0.0387
Observed reflections [<i>F</i> > 4 <i>σ(F)</i>]	1393	1655	3106
<i>R</i> ₁ ^b [<i>F</i> > 4 <i>σ(F)</i>]	0.0371	0.0467	0.0328
w <i>R</i> ₂ ^c (all data)	0.0983	0.1221	0.0879

$$^a R_{\text{int}} = \frac{\sum |F_o|^2 - F_o^2(\text{mean})}{\sum [F_o^2]}$$

$$^b R_1 = \frac{\sum |F_o| - |F_c|}{\sum |F_o|}$$

$$^c wR_2 = \left\{ \frac{\sum [w(F_o^2 - F_c^2)^2]}{\sum [w(F_o^2)^2]} \right\}^{1/2}$$

Figure S1

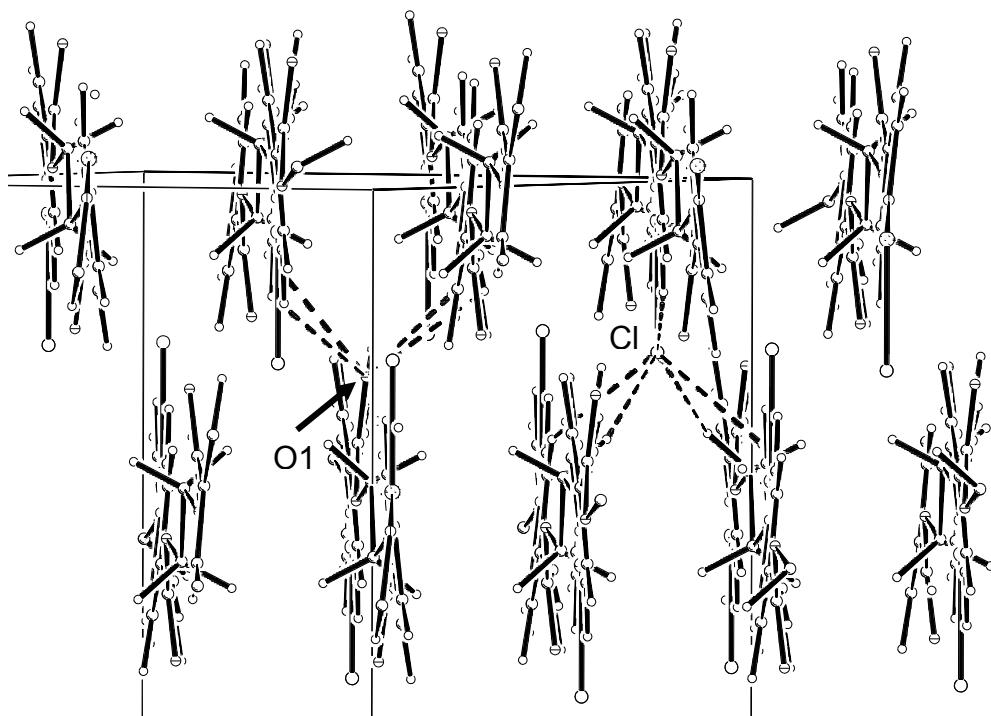
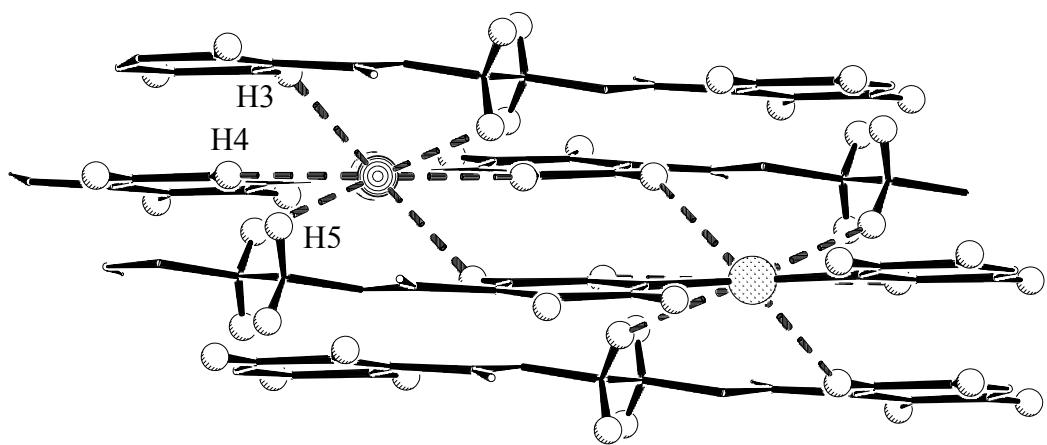


Figure S2



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Figure S3

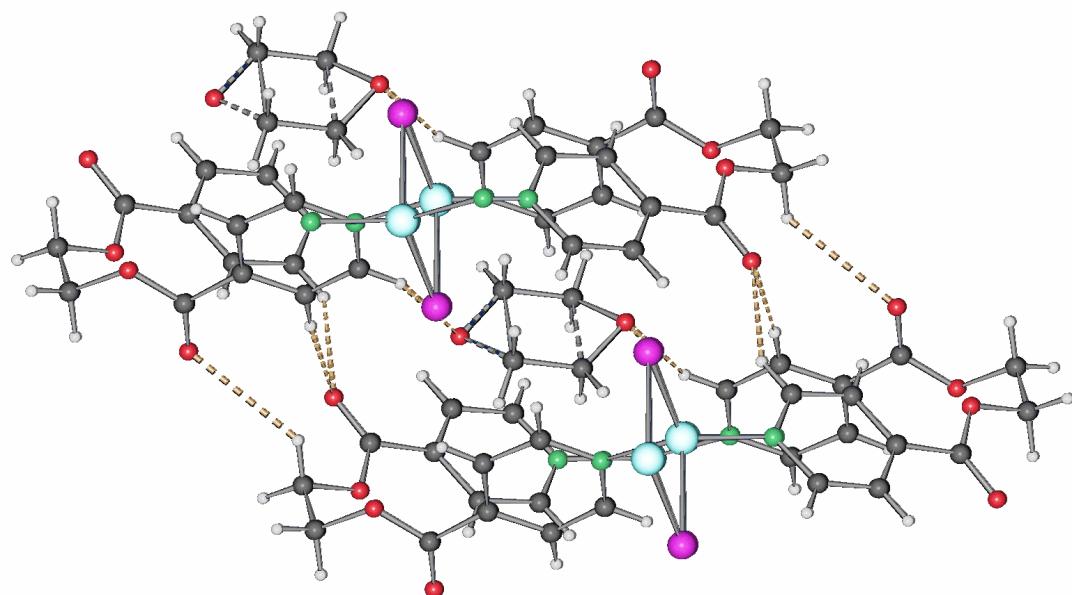


Figure S4

