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Supporting information for article:

Structural disorder and transformation in crystal growth: direct observation of ring-opening isomerization in a metal–organic solid solution

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Supporting information

Table S1 Selected geometric parameters (\AA , $^\circ$)

Form A			
Ag1—N4	2.053 (8)	Ag2—N10	2.121 (9)
Ag1—N1	2.087 (10)	Ag2—N7	2.124 (8)
Ag1—Ag1 ⁱ	3.0776 (17)	Ag1'—Ag1 ⁱ	3.031 (9)
N4—Ag1—N1	176.6 (4)	N1—Ag1—Ag1 ⁱ	92.6 (3)
N4—Ag1—Ag1 ⁱ	90.7 (2)	N10—Ag2—N7	171.7 (3)
Form B			
Ag1—N11 ⁱⁱ	2.134 (7)	Ag2—N11 ⁱⁱⁱ	2.130 (7)
Ag1—Ag1 ⁱⁱⁱ	3.086 (3)	Ag2—Ag2 ⁱⁱ	3.645 (4)
N11—Ag1—N11 ⁱⁱ	178.2 (4)	N11—Ag2—N11 ⁱⁱⁱ	167.8 (4)

Symmetry code(s): (i) $x, -y+1/2, -z$; (ii) $-x+2, y, -z+1/2$; (iii) $-x+2, -y+1, z$.

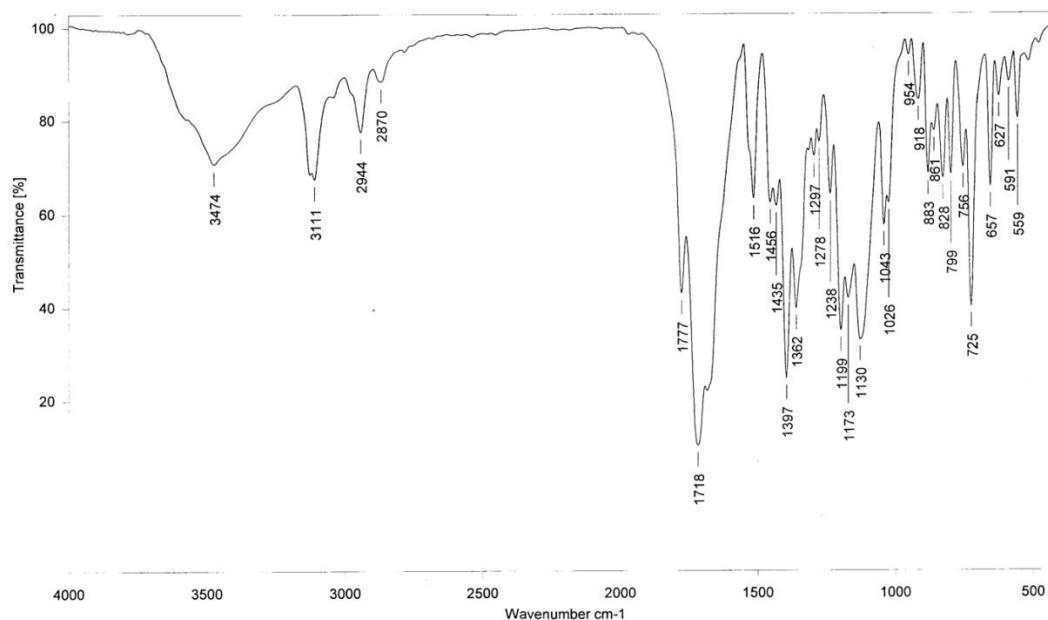
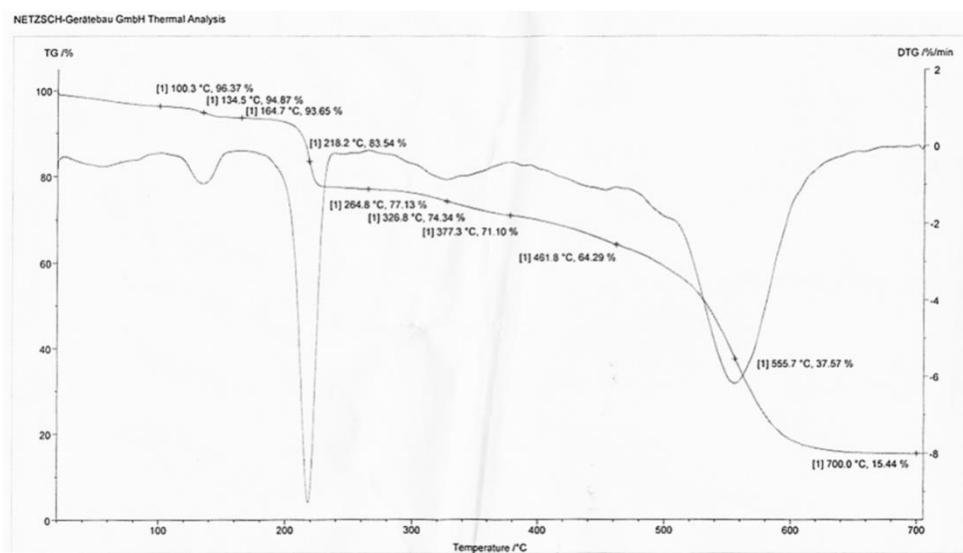
Figure S1 IR spectrum of complex **1**.**Figure S2** TGA curve of complex **1** up to 700°C

Figure S3 Excitation and emission spectra of the ligand *L* and complex **1** in the solid state.

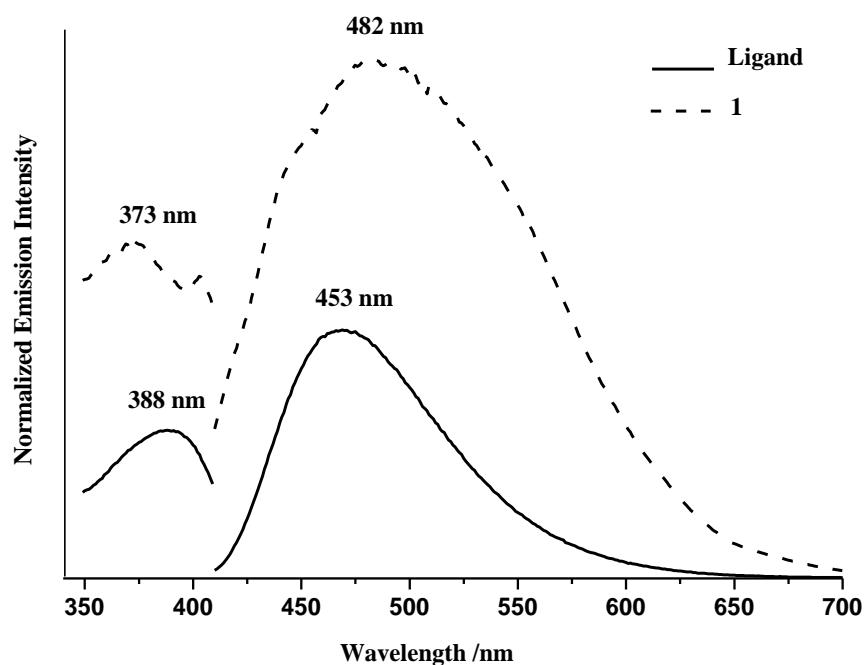


Figure S4 Views of the twist double chain in **1** in the space-filling mode from two different directions.

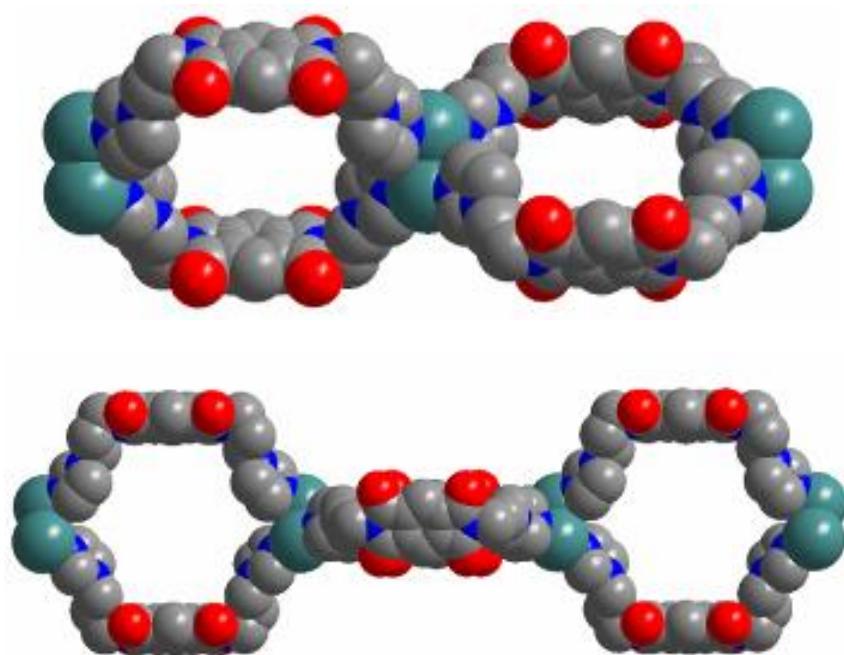


Figure S5 The unique packing arrangement of two types of structural motifs in **1**: (a) parallel stacking of the ribbons of rings and the twist double chains in Form **A**, and 50-50% distribution in Form **B**, (b) tubular channels formed by the overlapping arrangement of two types of structural motifs in the *a* direction showing counter anions and solvent molecules in Form **B**, and (c) space-filling representations of the tubular framework without counter anions and solvent molecules in both Form **A** and **B**.

