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Supporting information for article:

3D semiconducting Co–MOFs based on 5-(hydroxymethyl)isophthalic acid and imidazole derivatives: syntheses and crystal structures

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Table S1. Some selected bond lengths (Å) and bond angels (°) in **1** and **2**

			1		
Co1-O1[a]	1.9512(18)	Co1-O1	1.9513(18)	Co1-N1[a]	2.0389(13)
Co1-N1	1.971(2)				
O1[a]-Co1-O1	125.28(9)	O1[a]-Co1-N1[a]	115.52(6)	O1-Co1-N1[a]	98.92(6)
O1[a]-Co1-N1	98.92(6)	O1-Co1-N1	115.52(6)	N1a-Co1-N1	100.80(8)
			2		
Co1-O4[a]	2.069(2)	Co1-O5[b]	2.199(2)	Co1-O1	2.030(3)
Co1-N3	2.156(3)	Co1-N1	2.115(3)	Co1-N5	2.113(3)
O4[a]-Co1-N5[b]	89.64(10)	O4[a]-Co1-N3	86.17(11)	O4[a]-Co1-N1	90.76(12)
O4[a]-Co1-N5	88.40(12)	O1-Co1-N4[a]	176.69(11)	O1-Co1-N5[b]	92.40(11)
O1-Co1-N3	92.07(13)	O1-Co1-N1	86.49(12)	O1-Co1-N5	94.35(12)
N3-Co1-N5[b]	172.60(12)	N1-Co1-O5[b]	94.45(12)	N1-Co1-N3	91.70(12)
N5-Co1-O5[b]	85.75(12)	N5-Co1-N3	88.03(13)	N5-Co1-N1	179.13(12)

Symmetry codes: (a) *x*, 1-*y*, 1/2-*z* for **1**; (a) 1+*x*, 3/2-*y*, 1/2+*z*; (b) 1+*x*, *y*, *z* for **2**

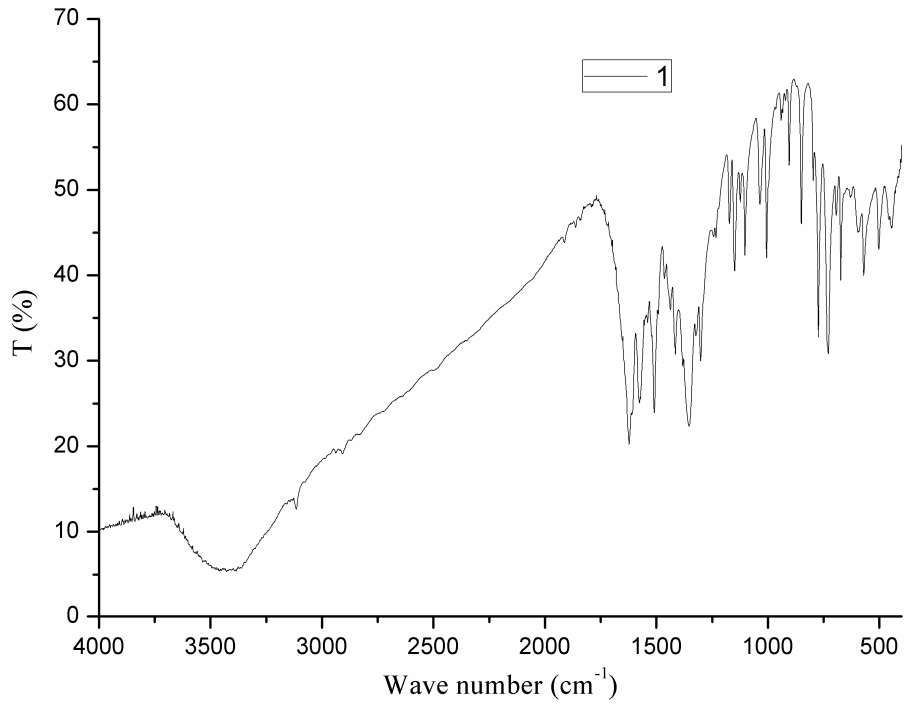

Figure S1. The IR spectra of **1**

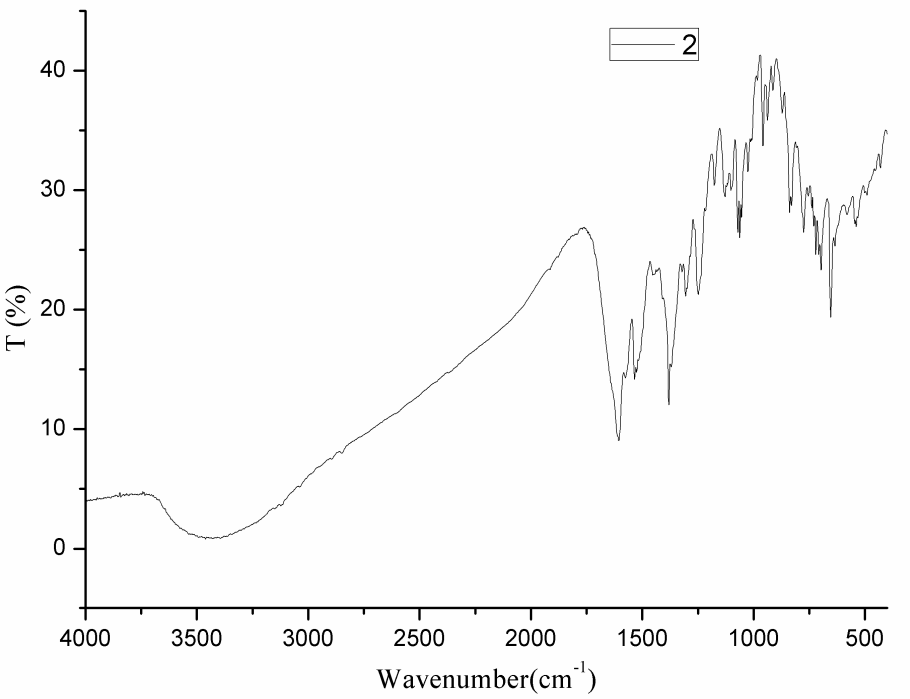

Figure S2. The IR spectra of **2**