

Supporting Information

**Solvothermal Synthesis and Structural Characterization of New Zn – Triazole –
Sulfoisophthalate Frameworks**

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Table S1. Selected bond distances of structure **1**

Bond	Length (Å)	Valence	Bond	Length (Å)	Valence
Zn1 – N2	1.990(4)	0.55	Zn2 – N5 (x2)	2.265(4)	0.26
Zn1 – N4	2.021(4)	0.51	Zn2 – N8 (x2)	2.113(4)	0.40
Zn1 – N7	1.986(4)	0.56	Zn2 – N12 (x2)	2.126(4)	0.38
Zn1 – N11	2.122(4)	0.39			$\Sigma s = 2.08$
		$\Sigma s = 2.01$			
Zn3 – O1	1.970(4)	0.49	Zn4 – O5	2.290(4)	0.20
Zn3 – O3	1.979(3)	0.47	Zn4 – O2w	2.099(4)	0.34
Zn3 – O1w	2.204(4)	0.26	Zn4 – N3	1.993(4)	0.55
Zn3 – N1	2.139(4)	0.37	Zn4 – N6	2.000(4)	0.54
Zn3 – N9	1.993(4)	0.55	Zn4 – N10	2.003(4)	0.53
		$\Sigma s = 2.14$			$\Sigma s = 2.16$

Table S2. Selected bond distances of structure **2**

Bond	Length (Å)	Valence	Bond	Length (Å)	Valence
Zn1 – O1 (x2)	2.135(2)	0.31	Zn2 – O4	1.996(3)	0.45
Zn1 – N2 (x2)	2.134(3)	0.37	Zn2 – O10	1.978(3)	0.48
Zn1 – N6 (x2)	2.113(3)	0.40	Zn2 – N1	1.986(3)	0.56
		$\Sigma s = 2.16$	Zn2 – N4	2.006(3)	0.53
					$\Sigma s = 2.02$
Zn3 – O2	1.974(3)	0.48	Na1 – O4	2.429(3)	0.18
Zn3 – O9	1.897(3)	0.59	Na1 – O6	2.529(3)	0.14
Zn3 – N3	1.982(3)	0.56	Na1 – O7	2.450(3)	0.17
Zn3 – N5	2.004(3)	0.53	Na1 – O10	2.365(3)	0.22
		$\Sigma s = 2.16$	Na1 – O13	2.350(3)	0.23
			Na1 – O22	2.295(4)	0.26
					$\Sigma s = 1.20$

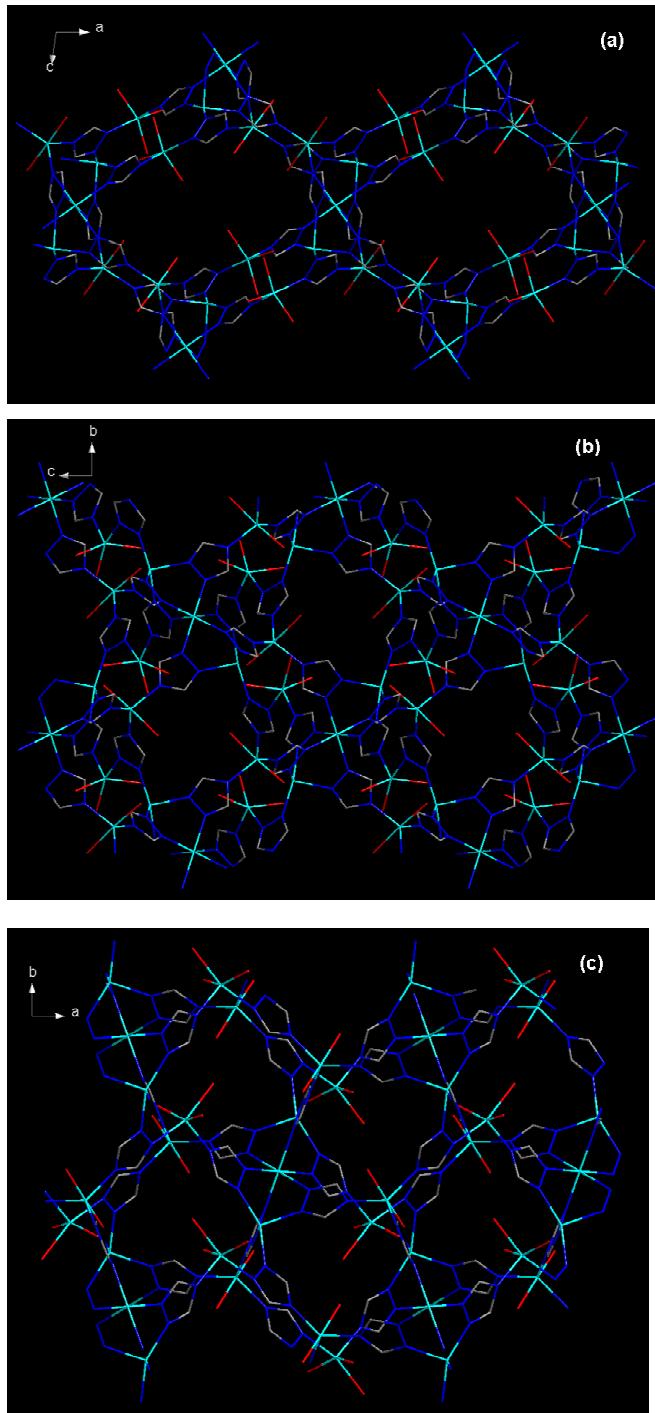


Figure S1. Wire representation of structure **1** viewed along [010] (a), [100] (b) and [001] (c) directions. SIP and water molecules are omitted to aid the visualization of the pores.

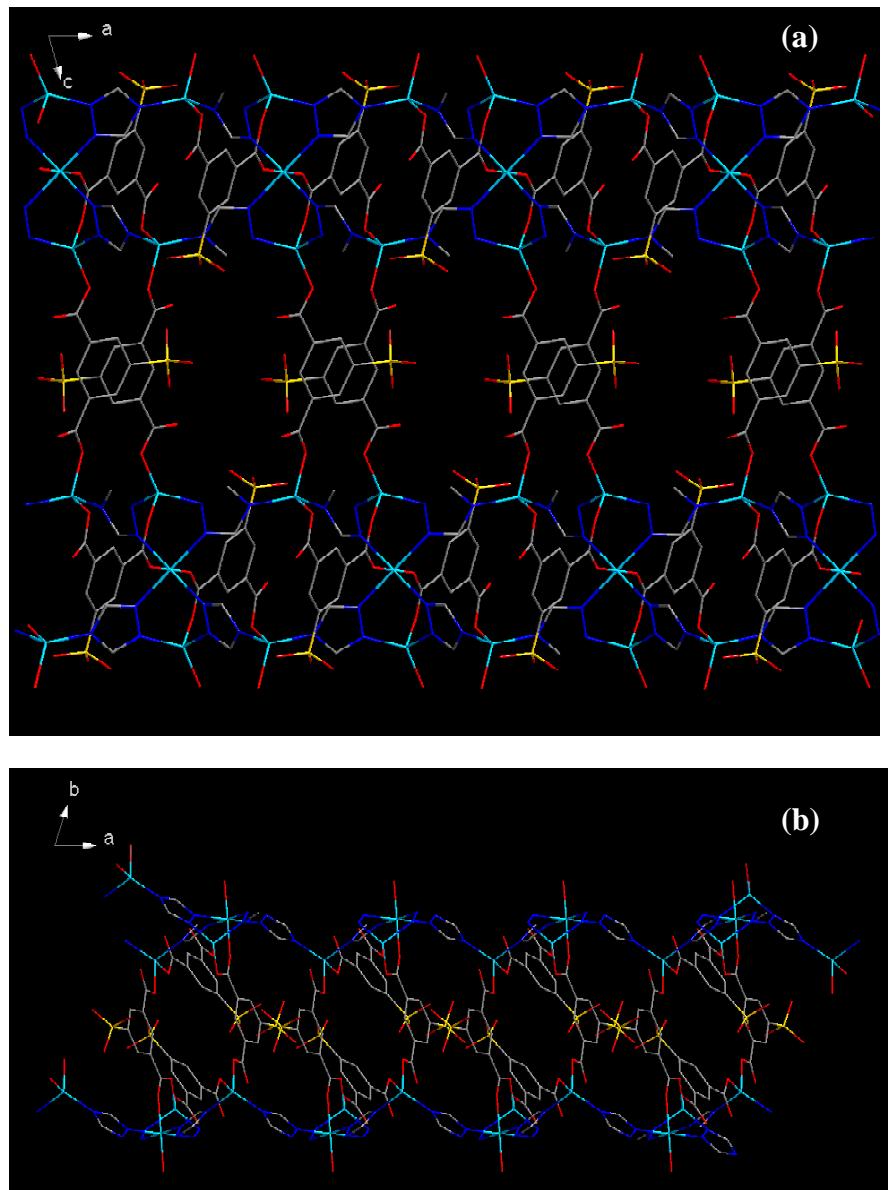


Figure S2. Wire representation of structure **2** viewed along $[010]$ (a) and $[001]$ (b) directions.

Na^+ ions, water and DMA are omitted for clarity.