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Supporting information for article:

Synthesis, growth, structure and characterization of molybdenum zinc thiourea complex crystals

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Figure S1 Photographs of as-grown MoZTS crystals.



Figure S2 FT-IR spectrum of MoZTS.



Figure S3 Powder XRD patterns.





Figure S5 EDS spectrum of MoZTS.



Figure S6 Tauc plot (direct band gap).

Figure S7 TG/DTA curve of MoZTS.



D-HA	d(D-H)	d(HA)	d(DA)	<(DHA)
N(5)-H(5A)S(4)#1	0.86	2.87	3.604(5)	144.6
N(5)-H(5A)O(3)#1	0.86	1.98	2.834(6)	172.6
N(5)-H(5A)O(2)#1	0.86	3.07	3.599(7)	122.2
N(5)-H(5A)O(1)#1	0.86	3.22	3.789(7)	126.1
N(5)-H(5B)S(1)	0.86	2.66	3.482(6)	160.2
N(5)-H(5B)S(3)#2	0.86	3.29	3.926(5)	133.3
N(3)-H(3A)S(4)#3	0.86	2.79	3.637(6)	167.2
N(3)-H(3A)O(4)#3	0.86	2.07	2.875(7)	155.2
N(3)-H(3A)O(3)#3	0.86	3.54	4.367(6)	163
N(3)-H(3A)O(2)#3	0.86	2.68	3.367(7)	137.3
N(3)-H(3A)N(2)#1	0.86	3.3	3.747(8)	115.2
N(3)-H(3B)S(1)#4	0.86	3.07	3.613(6)	123.3

Table S1Hydrogen bonds for MOZTS [Å and deg.]

Symmetry transformations used to generate equivalent atoms:

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