Electronic Supporting Information

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The effect of solvent on one-dimensional cadmium coordination polymers

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Table S1 Different methods for synthesis of compound **1**.

M:L	Solvent	T(°C)	Method
1:1	MeOH	60	Convection
1:1	EtOH	60	Convection
1:1	CH_3CN	60	Convection
1:1	MeOH:DMF	RT(25°C)	Solvent diffusion
1:1	H_2OH:MeOH	RT(25°C)	Solvent diffusion
1:1	EtOH:CH_3CN	RT(25°C)	Solvent diffusion

Table S2 Selected bond lengths [Å] and angles [º] for **1**.

Cd(1)—N(1)	**2.315(5)**	**N(1)—Cd(1)—I(2)**	**106.80(13)**
Cd(1)—I(1)	**2.695(12)**	**N(1)—Cd(1)—I(1)**	**104.10(13)**
Cd(1)—I(2)	**2.684(10)**	**I(1)—Cd(1)—I(2)**	**134.49(4)**

Table S3 Selected bond lengths [Å] and angles [º] for **2**.

Cd(1)—N(1)	**2.341(6)**	**N(1)—Cd(1)—I(2)**	**99.89(14)**
Cd(1)—N(4)$^{\#1}$	**2.358(6)**	**I(1)—Cd(1)—I(2)**	**98.19(2)**
Cd(1)—I(1)	**2.9229(7)**	**N(1)—Cd(1)—O(2)**	**86.8(2)**
Cd(1)—I(2)	**2.8356(8)**	**N(1)—Cd(1)—O(1)**	**79.9(2)**
Cd(1)—O(1)	**2.510(4)**	**O(2)—Cd(1)—O(1)**	**86.17(15)**
Cd(1)—O(2)	**2.348(4)**	**O(2)—Cd(1)—I(2)**	**83.42(11)**
Symmetry code: **#1:** $-x, y+\frac{1}{2}, -z+\frac{1}{2}$			

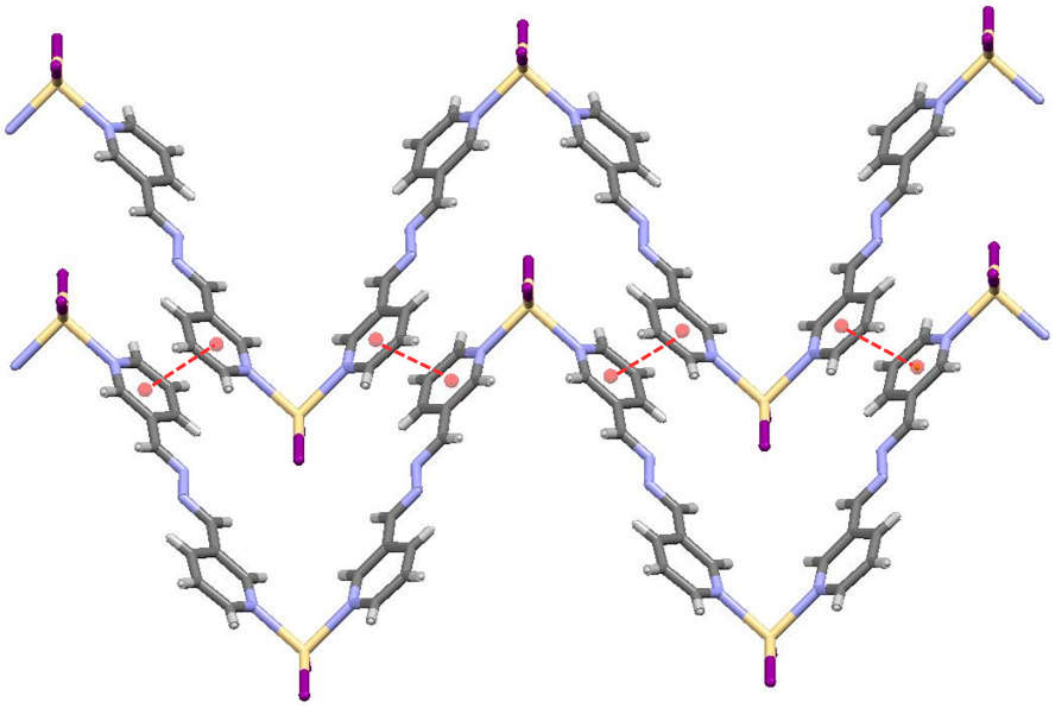

Figure S1 π- π interactions with a Cg-Cg distance of 3.489(4) Å in **1**.

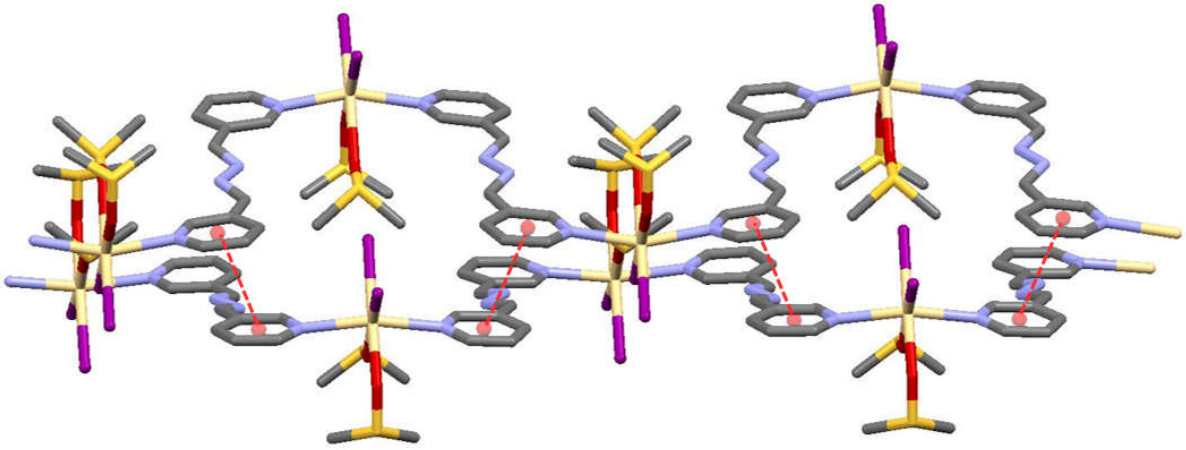

Figure S2 π- π interactions with a Cg-Cg distance of 3.684(4) Å in **2**.

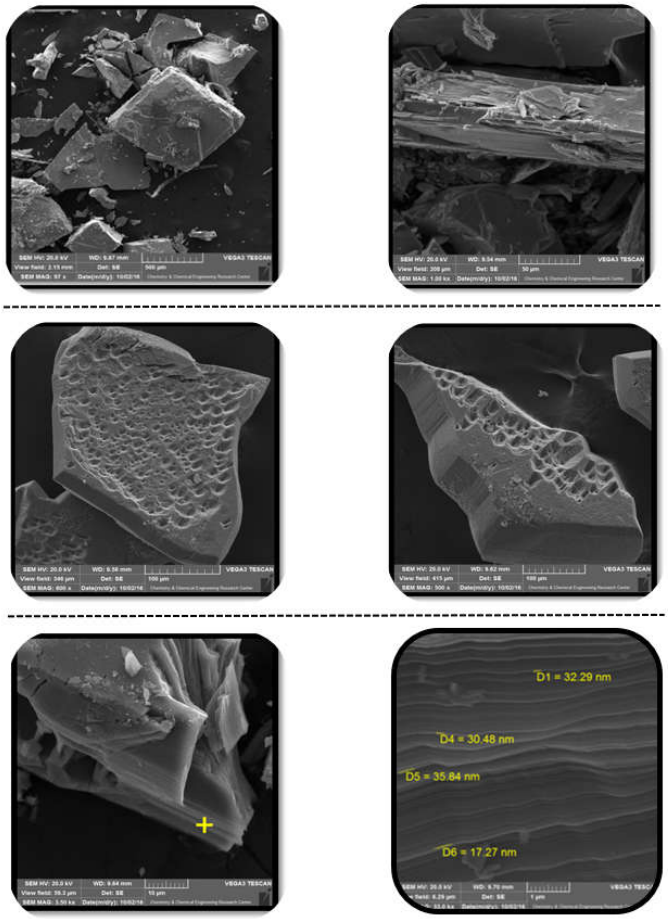

Figure S3 SEM images of crystal of compound **1** obtained in different solvents.

top: methanol, middle: ethanol, bottom: acetontrile.

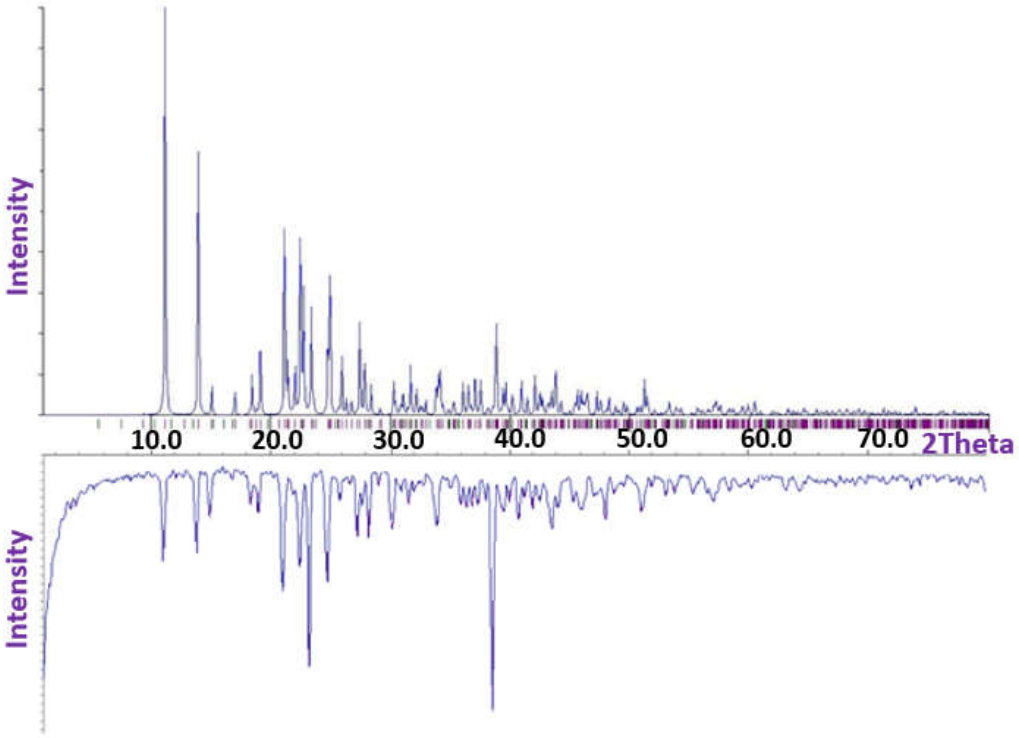

Figure S4 PXRD patterns of compound **1**: (top) simulated, (bottom) as-synthesized.

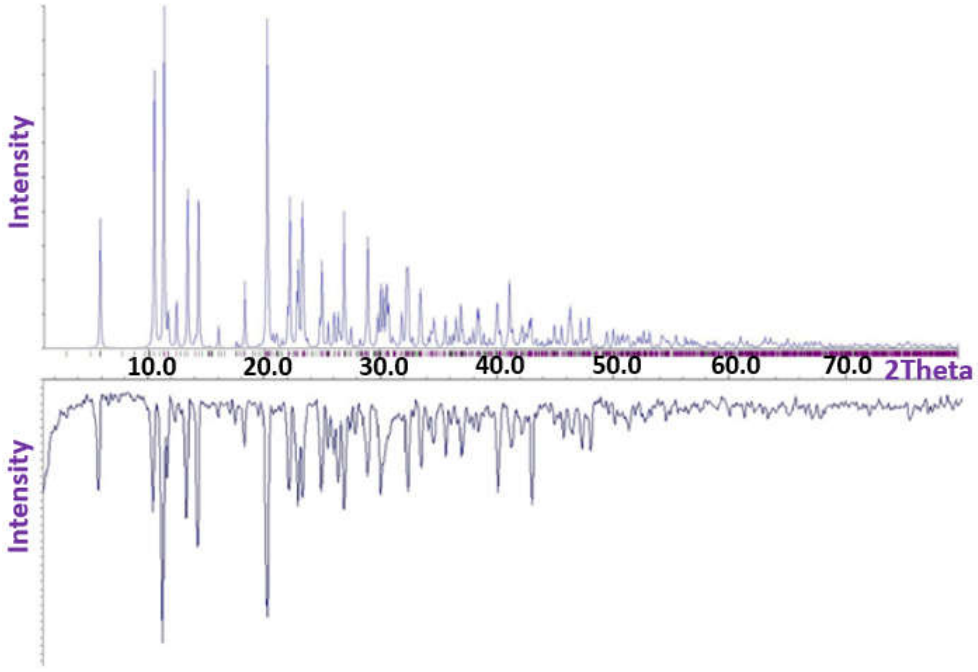

Figure S5 PXRD patterns of compound **2**: (top) simulated, (bottom) as-synthesized.