Supplementary Information for:

Synthesis, crystal structure and fluorescence of a new 3D Nd(III) coordination polymer based on the pyridine-3,5-dicarboxylate and *in situ* generated oxalate ligand

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Table S1. Hydrogen Bond Lengths (Å) and Bond Angles (°) for Complex 1

D–H...A	d(D–H)	d(H...A)	d(D...A)	<(DHA)
O(1W)–H(1WA)···O(2) (1–x, –y, 1–z)	0.84	2.10	2.861(4)	151
O(1W)–H(1WB)···O(3W)	0.84	1.86	2.699(4)	173
O(2W)–H(2WA)···N(1) (x, 1/2–y, 1/2+z)	0.84	1.94	2.782(4)	176
O(2W)–H(2WB)···O(1) (2–x, 1/2+y, 3/2–z)	0.84	2.37	3.160(4)	158
O(3W)–H(3WA)···O(1W) (1–x, 1/2+y, 3/2–z)	0.84	2.37	3.194(4)	167
O(3W)–H(3WB)···O(3) (–1+x, y, z)	0.83	2.04	2.856(4)	167
C(3)–H(3)···O(2)	0.93	2.47	3.234(5)	139
C(3)–H(3)···O(3)	0.93	2.47	2.788(5)	100

Table S2. Parameters between the Ring Planes for Complex 1

Cg	Distance between ring centroids (Å)	Dihedral angle (°)	Perpendicular distance of Cg(I) on Cg(J) (Å)	Perpendicular distance of Cg(I) on Cg(J) (Å)
Cg(2)→Cg(2) (1–x, 1–y, 1–z)	3.889(2)	0	3.5598(16)	3.5601(16)
Cg(2)→Cg(2) (2–x, 1–y, 1–z)	3.825(2)	0	3.3665(16)	3.3662(16)
Cg(2): N(1)→C(3)→C(2)→C(6)→C(5)→C(4)→				