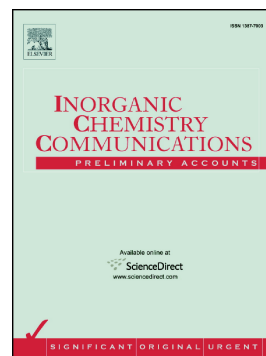


## Accepted Manuscript

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**Two transition metal coordination polymers constructed from 1,4-Naphthalenedicarboxylate and N/O-donor auxiliary ligands: syntheses, structures and magnetic property**

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**Abstract**

Two transition metal coordination polymers (CPs), namely, Cd(1,4-NDC)(py) (**1**), Co<sub>2</sub>(1,4-NDC)<sub>2</sub>(DMF)<sub>2</sub> (**2**) (1,4-NDCH<sub>2</sub> = 1,4-Naphthalenedicarboxylic acid, py = pyridine, DMF = N,N-dimethylformamide) have been synthesized and characterized. Compound **1** contains one-dimensional chains, which are further linked by the NDC<sup>2-</sup> ligands to form a three-dimensional framework with a 5,5T2 topology network. There exist two types of left-hand helical chains interconnected to each other through the Cd(II) center in compound **1**. Although compound **2** has been reported previously, in this work the synthetic method of **2** is modified to obtain high quality crystals. In addition, the magnetic property of compound **2** is investigated, which shows the

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