

## Preparation and Structure of Nickel Coordination Polymers

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The hydrothermal reaction of  $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$  with naphthalene-2,6-dicarboxylic acid (2,5-NDCH<sub>2</sub>) and *trans*-1,2-bis(4-pyridyl)ethylene (bipyen) led to the formation of a 3-dimensional coordination polymer with the empirical formula of  $[\text{Ni}(\text{2,6-NDC})(\text{bipyen})(\text{H}_2\text{O})]$  (1). In addition, the reaction of  $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$  with 2,5-NDCH<sub>2</sub> and bipy (4,4'-bipyridine) gave another 3-D compound  $[\text{Ni}_3(\text{2,6-BDC})_3(\text{bipy})_{1.5}]$  (2), which has been formed by the interpenetration of two 3-D polymers. The structures of both compounds have been determined by X-ray diffraction.

