

## Preparation and Structure of a 3-Dimensional Nickel(II) Coordination Polymer

한원석, 이순원  
성균관대학교 이과대학 화학과

The hydrothermal reaction of  $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$  with 4,4'-oxybis(benzoic acid) (OBCH<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  $[\text{Ni}(\text{OBC})(\text{bipyen})] \cdot \text{H}_2\text{O}$ . The complex has been characterized by X-ray diffraction, elemental analysis, TGA, IR, X-ray powder diffraction (XRPD). It crystallized triclinic space group *P*1 with  $a = 9.280(2)\text{\AA}$ ,  $b = 11.317(4)\text{\AA}$ ,  $c = 12.442(3)\text{\AA}$ ,  $Z = 2$ ,  $R(\omega R_2) = 0.0346 (0.0846)$ .

