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2D氢键网络镍配合物 $\{[Ni(4,4'-bipy)(H_20)_4] \bullet (\alpha-furacrylic\ acid)_2 \bullet (H_20)\}_n$ 的水热合成、晶体结构及电化学性质

Hydrothermal Synthesis, Crystal Structure and Electrochemical Properties of 2D Hydrogen-bonded Complex  $\{[\text{Ni}(4, 4' - \text{bipy})(\text{H}_20)_4] \cdot (\alpha - \text{Furacrylic acid})_2 \cdot (\text{H}_20)\}_n$ 

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中文关键词:镍(II)配合物;水热合成;晶体结构;电化学性质分析

英文关键词: nickel(II) complex; hydrothermal synthesis; crystal structure; electrochemical property

基金项目:

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中文摘要:

英文摘要:

A complex [Ni  $(\alpha$ -furacrylic acid)  $_2$ (4,  $_4$ ' -bipy) (H $_2$ 0)  $_5$ ] $_n$  with  $\alpha$ -furacrylic acid, 4,  $_4$ ' -bipy and Nickel perchl-orate has been synthesized by means of hydrothermal way and characterized. Crystal data for this complex: monoclinic, space group  $P2_1/c$ , a=1.122 2(2) nm, b=1.084 1(2) nm, c=1.081 6(2) nm,  $\beta$ =98.37(3)°, V=1.301 8(5) nm³,  $D_c$ =1.524 g·cm³, Z=2,  $\mu$ (Mo  $K\alpha$ )=0.813 mm $^{-1}$ , F(000)=624, S=1.073,  $R_1$ =0.041 2,  $wR_2$ =0.093 4. The crystal structure shows that the Nickel (II) ion is coordinated with two nitrogen atoms of two 4,  $_4$ ' -bipy molecules and four oxygen atoms from four water molecules, respectively, giving a distorted octahedral coordination geometry. Adjacent Nickel (II) ion are bridged by 4,  $_4$ ' -bipy groups and the adjacent Ni(II)...Ni(II) distance is 1.122 2 nm. The Nickel (II) ion isn't coordinated with  $\alpha$ -furacrylic acid. The complex molecules form 2D structure through hydrogen bonds. The cyclic voltametric behavior of the complex was also investigated. CCDC: 658849.

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