

عنوان مقاله:

3D COBALT COORDINATION POLYMER:SYNTHESIS, AND CO₂ ADSORPTION

محل انتشار:

اولین همایش ملی تکنولوژی های نوین در شیمی و پتروشیمی (سال: 1393)

تعداد صفحات اصل مقاله: 6

نویسندگان:

.a Keshmiri - School of chemistry, College of science, University of Tehran, Tehran, Iran

.A Abbasi - School of chemistry, College of science, University of Tehran, Tehran, Iran

.F Jafarzadeh - School of chemistry, College of science, University of Tehran, Tehran, Iran

خلاصه مقاله:

The crystal structure and vibrational spectra of $\{(CH_6N)[Co(CHO_2)_3]\}_n$, the structure consists of a threedimensional net of central Co (II) ions connected via formate (methanediolate) bridges. The negative charge is compensated by protonated methylamine cations. One of the Co (II) ions adopts a disordered octahedral geometry, coordinated by six O atoms from three different formate ligands. IR vibrational spectra were recorded and the full assignment of the vibrational frequencies is proposed. CO₂ adsorption performances of the crystals were investigated at ambient temperature and pressure (1 atm), and diagram shows the corresponding CO₂ adsorption-desorption isotherms of the crystals.

کلمات کلیدی:

vibrational, formate, adsorption, three- dimensional

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