

عنوان مقاله:

Synthesis of a New Poly Schiff Base as a Powerful Polymeric Ligand for the Preparation of Cu, Ni, Fe and Co Complexes

محل انتشار:

دومین کنگره ملی شیمی و نانو شیمی از پژوهش تا فناوری (سال: 1398)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

A new poly Schiff base ligand (PMIMP) using salicylaldehyde as a precursor was synthesised, characterized and served for the preparation of its Cu, Ni, Fe and Co complexes. Polymerization of salicylaldehyde (poly salicylaldehyde, PSA) was done with creation of an anchor in salicylaldehyde followed by a polycondensation reaction. Poly salicylaldehyde and its corresponding Cu, Ni, Fe and Co complexes were characterized with FT-IR, UV-Vis, ¹H NMR and elemental analysis techniques. Furthermore, loading amount of metals on PMIMP was measured with inductive coupled plasma (ICP) analysis.

کلمات کلیدی:

Salicylaldehyde, Polymer- metal complexes, Schiff base ligand, Polymerization, ICP analysis

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