عنوان مقاله:

Synthesis and Spectral Studies of Two New Polymer-Metal Complexes Derived from Polyvinyl Alcohol

محل انتشار:

دومین کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1395)

تعداد صفحات اصل مقاله: 12

نویسندگان:

Milad Kazemnejadi - *Department of Chemistry, College of Science, Shiraz University, Shiraz ۷۱۴۵۴ Iran*

Hassan Eslahi - *Department of Chemistry, College of Science, Shiraz University, Shiraz ۷۱۴۵۴ Iran*

Alireza Sardarian - *Department of Chemistry, College of Science, Shiraz University, Shiraz ۷۱۴۵۴ Iran*

خلاصه مقاله:

Complexations of two new poly Schiff base ligands to copper (II) were synthesized via preparation of a salen and a Schiff base ligand on polyvinyl alcohol (PVA) framework which named as Tet. Cu Com. @PVA and PVA@Cu(II) Schiff base complex respectively. PVA was served as supporting agent in order to preparation of Schiff base ligand on it followed by complexation with Cu(OAc)2. A mild and simple procedure was used for preparation of PVA-Cu(II) complexes that were successfully characterized by FT-IR, 1H NMR, UV-Vis and TGA instruments. Moreover loading amounts of copper on Tet. Cu Com. @PVA and PVA@Cu(II) Schiff base complex, were measured by inductive coupled plasma (ICP) analysis.

کلمات کلیدی:

PVA, Schiff base, ligand, polymer, copper complex, thermal analysis