

## عنوان مقاله:

The effect of prepare copper nano particles of the thermal properties of synthesized polyester based on schiff base ligands

## محل انتشار:

ششمین کنفرانس بین المللی علوم و توسعه فناوری نانو (سال: 1400)

تعداد صفحات اصل مقاله: 12

## نویسندگان:

Nastaran Mahjoob - *Master of polymer chemistry in Golestan university of Gorgan, Iran*

Hossein Mighani - *Assistant professor of polymer chemistry in Golestan university of Gorgan, Iran*

## خلاصه مقاله:

In this paper, the reaction of 1,2 ethane diamine with parahydroxy benzene aldehyde schiff base ligand was synthesized. This ligand was then prepared as a polyester during back-compression reaction the solution with sebacic acid. A polymer complex was synthesized by reacting polyester with copper nano particles schiff base ligand, polyester copper nano particles (CuO/Cu<sub>2</sub>O), polymer complex by analyzes HNMR, CNMR, FT-IR, TEM, XRD were identified and their thermal stability was investigated (TGA). As result, it was found to have good thermal stability.

## کلمات کلیدی:

schiff base ligand, copper nano particle, polyester, nano complex, thermal stability

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1382302>

