

عنوان مقاله:

Biosynthesis of cellulose–silver nanocomposite by leaf extract of *Origanum vulgare* and its application in reduction of methyl red

محل انتشار:

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

تعداد صفحات اصل مقاله: 4

نویسندگان:

Mahboobeh Zahedifar - *Department of Chemistry, Faculty of Science, University of Jiroft, Jiroft, ۷۸۶۷۱۶۱۱۶۷, Iran*

Maryam Mazaheri-Tirani - *Department of Biology, Faculty of Science, University of Jiroft, Jiroft ۷۸۶۷۱-۶۱۱۶۷, Iran*

خلاصه مقاله:

A green method for the synthesis of silver nanoparticles supported cellulose using leaf extract of *Origanum vulgare* has been developed for the catalytic reduction of methyl red. The nanoparticles were characterized by TEM and SEM analysis. The synthesized catalyst shows excellent activity against methyl red as hazardous organic dye. The dye solution was found to be completely decolourised within 30 min of reaction.

کلمات کلیدی:

Cellulose, Ag nanoparticles, *Origanum vulgare*, Methyl red

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/969438>

