

### عنوان مقاله:

Green and Facile synthesis of Fe 3O 4-MNPs using the Extract of Rhus coriaria and Evaluation of its Antibacterial Activity

# محل انتشار:

اولین کنگره بین المللی شیمی و نانو شیمی از پژوهش تا فناوری (سال: 1397)

تعداد صفحات اصل مقاله: 5

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#### خلاصه مقاله:

In this study, iron oxide magnetic nanoparticles (Fe3O4-MNPs), were synthesized using the Rhus coriaria fruit extract as a reducing and capping agent. The successful formation of iron nanoparticles has been confirmed by UV-Vis spectroscopy, Fourier transform infrared spectroscopy (FTIR), X-ray diffraction and FE-SEM analysis. The images of scanning electron microscopy show Fe3O4-MNPs production which are 12 nm and spherical. The antibacterial activity of the synthesized Fe3O4-MNPs were confirmed against Escherchia coli and Staphylococcus aureus

**کلمات کلیدی:** Green synthesis, Rhus coriaria, Fe3O4 -MNPs

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