

## عنوان مقاله:

nano crystalline magnetic hydroxyapatite

## محل انتشار:

سومین کنفرانس بین المللی مطالعات میان رشته ای در نانو فناوری (سال: 1399)

تعداد صفحات اصل مقاله: 1

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## خلاصه مقاله:

In recent years, requisitions for biocompatible materials impassively increased. Due to the presence of Hydroxyapatite in the major part of bones and teeth, and also biocompatible ability of this material, make Hydroxyapatite as a perfect option for today world requirements. In the other hand, adding more ability to hydroxyapatite can help Scientists to apply it in more useful needed. Magnetite hydroxyapatite is a beneficial example of it which can be separated or guided by a Magnetic field for variety uses.  $Fe_3O_4$  nanoparticles are known as a biocompatible material with-human body. But also, there is apprehensive that the nanoparticles may have long term toxic effects which is solved by doping Fe into the HA matrices. Separation by magnetic field is easier, faster and simpler way rather than old methods. In this research, there is an uncomplicated method for synthesis of Magnetite hydroxyapatite composite particles. Magnetite hydroxyapatite nanoparticles are first synthesized by coprecipitation using ferrous chloride and ferric chloride. After synthesis completed, sediment separated by centrifuge and dried in oven, which is later got heat treatment. After powder synthesis, powder properties determine by XRD, VSM and FESEM. Synthesis of Nano crystalline magnetic hydroxyapatite has been successful. Methods and Materials: A search was conducted using the databases such as Medline or PubMed and Google Scholar for articles from 2010 to 2018. The selected key words were Synthesis, Nano crystalline, Magnetic hydroxyapatite. This article provides a summary of how we can make a nano crystalline magnetic hydroxyapatite

## کلمات کلیدی:

Synthesis, Nano crystalline, Magnetic hydroxyapatite

## لینک ثابت مقاله در پایگاه سیویلیکا:

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