

## عنوان مقاله:

Effect of nano-magnetic particle in biomedical engineering and imaging instruments

## محل انتشار:

کنفرانس بین المللی سیستمهای غیر خطی و بهینه سازی مهندسی برق و کامپیوتر (سال: 1394)

تعداد صفحات اصل مقاله: 7

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## خلاصه مقاله:

This paper mainly discusses the properties and characteristics of magnetic nanoparticles in medical imaging. First, the features required for the particles to the factors listed in the properties have been discussed, Such as particle size and its effect on image contrast, particle method and its effect on their physical and chemical properties of coatings used and the benefits they have been named. The more types of nano-particles used are Unique features and benefits of magnetic nanoparticles as contrast agents in magnetic resonance imaging excellence particles (MRI) causes. MRI based on proton interactions between the magnetic field and the tissue. introduced briefly, and finally how to transfer the particles to the target tissue for disabled has been reviewed. Investigation has shown that use of magnetic nanoparticles in MRI, better contrast of images to cell surfaces and the possibility of molecular imaging and provides. This article is a brief description of how the performance of the MRI has been given, A comparison between the magnetic nanoparticles and other factors has been conducted and contrast cause of excellence and increase the contrast of the magnetic nanoparticles have been discussed in general comment about the structure of a given particle is used

## کلمات کلیدی:

magnetic nanoparticles, imaging, magnetic field, the time of comfort

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/383408>

