

عنوان مقاله:

Development and characterization of $\gamma\text{Fe}_2\text{O}_3$ nano particle as emerging porous microspheres for biomedical applications

محل انتشار:

سومین کنفرانس سراسری نوآوری های اخیر در شیمی و مهندسی شیمی (سال: 1395)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

The synthesis of magnetic nanoparticles has significant interest for both fundamental researches and applications. Because the magnetic properties strongly depend on condition of aggregation. In this study, Biodegradable maghemite nanoparticles were synthesized by inexpensive and easy co-precipitation method base on precipitation reaction of ferrous and ferric salts followed by heat treatment at different temperatures ranging from 60 to 90 °C for. The samples were analyzed by vibrating sample magnetometer, scanning electron microscopy and energy dispersive X-spectroscopy. The results indicated that the nanoparticles exhibit maghemite characteristics with a relatively coercivity of 16Oe have the maximum saturation magnetization of 63.4 emu/g and have a particle size 40nm

کلمات کلیدی:

nanoparticle, magnetic, maghemite, co-precipitation method :

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