

عنوان مقاله:

Fe3O4@SiO2@Polylonene/Arsenic acid core—shell-shellmagnetic nanoparticles as a novel drug nanoparticle and itsantibacterial effects

محل انتشار:

سومین کنفرانس بین المللی دستاوردهای نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1395)

تعداد صفحات اصل مقاله: 19

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خلاصه مقاله:

new Fe3O4@SiO2@Polyionene/Arsenic acid core—shell-shell magnetite nanoparticle was prepared with coprecipitation method and was used against gram positive and gram negative pathogen. The ionene was easily prepared with reacting DABCO and 1,4-dibromo butane in DMF/Methanol. The polyionene was added to the previous layers and magnetic core—shell nanoparticles (P-MNPs) werefunctionalized. All resulting nanoparticles were characterized by transmission electron microscopy (TEM), scanning electron microscopy (SEM), infrared spectroscopy (FTIR), and vibrating sample magnetometer (VSM). The catalyst was readily recovered by simple .magnetic decantation and can be recycled several times with no significant loss of catalytic activity

كلمات كليدى:

Fe3O4@SiO2@Polyionene/arsenic acid, Magnetic core, Magnetic separation, Ionene, antibacterial

لینک ثابت مقاله در پایگاه سیویلیکا:

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