

عنوان مقاله:

Synthesis a new nanocatalyst of MoO(2)(acac)(2) supported on mesoporous MCM-41

محل انتشار:

همایش ملی نانو فناوری و شیمی سبز (سال: 1391)

تعداد صفحات اصل مقاله: 4

نویسنده:

Elham Saleh - Department of Chemistry, Ardabil brunch, Islamic Azad University, Ardabil, Iran

خلاصه مقاله:

In this research, a new heterogeneous molybdenum catalyst was prepared through covalent attachment of a molybdenum complex on the surface of Mo-Mt@MCM-41 material. via aminopropyl spacer and subsequent complexation with MoO(2)(acac)(2). Magnetite nanoparticles were prepared by coprecipitation of Fe (2+) and Fe (3+) salts in base condition. In the next step, the prepared magnetite nanoparticles were added to a mixture of hexadecyltrimethylammonium bromide and ammonia in water. Addition of tetraethyl orthosilicate to this mixture resulted in preparation of magnetite nanoparticles included in MCM-41 mesopores. Surface modification of the prepared material with MoO(2)(acac)(2) produced final nanomaterial, Mo-Mt@MCM-41. The prepared nanomaterial .was characterized with Fourier transform infrared spectroscopy, X-ray diffraction, scanning electron microscopy

کلمات کلیدی:

Nano catalyst; Mesoporous; MCM-41; Molybdenyl acetylacetonate

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