

عنوان مقاله:

SYNTHESIS AND CHARACTERIZATION OF Fe₃O₄@C@γ-Al₂O₃ CORE@DOUBLE-SHELL NANOCOMPOSITE

محل انتشار:

چهارمین همایش ملی شیمی، پتروشیمی و نانو ایران (سال: 1395)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

An efficient magnetic carbon nanospheres supported γ-Al₂O₃ as a core@double-shell nanocomposite has been prepared by a three-step process in this report. The morphology, inner structure and magnetic properties of all products were studied with X-ray powder diffraction (XRD), energy dispersive X-ray spectroscopy (EDX), field-emission scanning electron microscopy (FE-SEM) and vibrating sample magnetometer (VSM) tests. The Fe₃O₄@C@γ-Al₂O₃ nanocomposite showed excellent particle monodispersity and uniform particle diameter of 100-300 nm. The synthesized nanocomposite showed great magnetic property (52.3 emu/g), which made it has potential .for application in magnetic nanodevices and nanocatalysts

کلمات کلیدی:

Magnetic, Nanocomposite, Core-shell, Fe₃O₄@C@γ-Al₂O₃

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