عنوان مقاله:

Sol-Gel Synthesis and characterization of nano iron oxide

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

We have utilized sol-gel method for producing nano structure of xerogel iron oxide with Ferric nitrate nonahydrate as precursor, ethanol as solvent and propylene oxide as gelation agent. Nano oxide at 70°C are produced and evaluated with SEM, TG/DTA, FTIR, and XRD. The results of these analysis confirm the existence of amorph iron oxide, water, γ-Fe2O3, α-Fe2O3, α-FeO(OH) and Fe(OH)3 in this mixture. The morphology of these particles shows that they are .spherical andagglomerate because of high reactivity and high surface area

کلمات کلیدی: Sol–gel, Nano iron oxide, Xerogel

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https://civilica.com/doc/341254

