

عنوان مقاله:

study of the different calcination conditions on Fe-Co nanoparticles based on Al₂O₃ prepared by hydrothermal method

محل انتشار:

دومین کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1395)

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خلاصه مقاله:

Nowadays, magnetic nanoparticles are widely used for medical, electronical, military, etc. purposes. Recently, iron and cobalt nanoparticles have attracted many researchers' attention. Hydrothermal synthesis is one of the most common ways to produce these nanoparticles. The present research focuses on the synthesis and identification of iron-cobalt oxide nanoparticles based on nano alumina through the hydrothermal method, as well as the examination of the effect of calcination conditions on its structure. In this research, nitrates of iron and cobalt as the active phase were added on alumina nanoparticles as the substrate of hydrothermal method. After producing the samples under different temporal and thermal conditions in order to determine the temperature and the optimal time of calcination through XRD techniques, FESEM was identified, and the microscopic structure, chemical compound and other characteristics of nanoparticles were examined.

کلمات کلیدی:

iron-cobalt oxides, hydrothermal, calcination, FESEM, XRD

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