

عنوان مقاله:

Synthesis of Mesoporous $MgAl_2O_4$ Spinel Nanopowder with High Surface Area

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

In this research, mesoporous nanocrystallite magnesium aluminate powder with high specific surface area was synthesized by a simple co-precipitation method with the addition of pluronic P123 triblock copolymer as surfactant. The prepared samples were characterized by X-ray Diffraction (XRD), N_2 adsorption (BET) and Scanning electron microscopy (SEM). The effects of calcination temperature on the structural properties of the samples were investigated. The results showed that with increasing in calcination temperature from 600 to 800 °C increased the crystallite sizes and decreased the specific surface area in the range of 183-124 m^2g^{-1} .

کلمات کلیدی:

Magnesium aluminate, Nanopowder, Precipitation, Surfactant

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