

عنوان مقاله:

Effect of Manganese Oxide Addition on Structural and Redox Property of LaCoO₃ Perovskite

محل انتشار:

ششمین کنگره بین المللی مهندسی شیمی (سال: 1388)

تعداد صفحات اصل مقاله: 4

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خلاصه مقاله:

Samples with the formula of LaCoMnxO(3+δ), where x is 0.0, 0.3 or 0.5 were prepared and compared according to the structural properties to study the effect of the manganese oxide addition on LaCoO₃ perovskite structure. Samples were prepared by the citrate method and calcined at 600°C for 8 h. Perovskite structure is observed in XRD patterns of studied catalysts. Disappearance of manganese oxide phase in XRD proposes to consider the catalyst as LaCoO₃ perovskite supported manganese oxide. Manganese oxide disappearance can account for small size of the species. Results are evidence for a further affinity of La³⁺ toward the Co³⁺ than of the Mn cation. Manganese oxide, however, was observed to deteriorate the crystallization

کلمات کلیدی:

Mixed oxides, Perovskite, LaCoO₃, manganese oxide, XRD

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