



SYNTHESIS, CHARACTERIZATION AND CATALYTIC REDUCTION OF NO_x EMISSIONS OVER LaMnO₃ PEROVSKITE

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Abstract

The perovskite structure was synthesized by sol-gel method type citrate. Three perovskite LaMnO₃ samples were obtained after calcination and were characterized by XRD, XPS and TPR. The catalytic testing was carried out in SCR-HC equipment (HC=C₃H₆ and C₃H₆ respectively) in presence and also in absence of oxygen atmosphere. The results pointed out a good activity in NO_x reduction but only in oxygen absence. As it was expecting, LaMnO₃ perovskite has shown a good activity for hydrocarbons oxidation

Key words: citrate sol-gel, perovskites, SCR-HC

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