

عنوان مقاله:

Synthesis of a Titanium Oxide Nano-structured based on N-doped Molybdena in the Oxidative Dehydrogenation of propane

محل انتشار:

ششمین کنفرانس بین المللی مهندسی شیمی و نفت (سال: 1399)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

In this study, characterization of N-doped Molybdena supported on titania nanotubes synthesized by the hydrothermal treatment of TiO₂ powders has been reported. A promising catalyst for oxidative dehydrogenation of propane (ODP) was prepared via the incipient wetness impregnation method. The as-prepared catalyst characterization was investigated using XRD, SEM, EDS, BET. Furthermore, XRD result indicated development of the anatase phase in N/MoTNT-10 catalyst upon calcination, along with specific surface area loss according to BET. The effect of nitrogen loading as a promoter in N/MoTNT-10 catalyst was also explored through characterization of the surface molybdena species and catalytic performance. Due to the presence of nitrogen, propylene yield increased from 9 Also it is noteworthy that the electrocatalytic properties of our sample enhanced significantly after adding nitrogen

کلمات کلیدی:

Oxidative dehydrogenation, Propane, Propylene, Titanate nanotube, Molybdenum, N-doped, Catalyst

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