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عنوان مقاله:

Removal of VOC by Ozone on Platinum Catalyst: Effect of Temperature, Ozone Concentration and Pt Surface Area

محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

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خلاصه مقاله:

In this paper ozonation of volatile organic compounds (VOCs) in air has been studied over Platinum catalyst with different surface area, ozone concentration and temperature. Surface and concentration increasing promote removal percent but except the state of free ozone reactions, rising temperature is not so effective. The experiments on new and used catalysts show that catalyst with high surface area (10m2 new Pt), low temperature (50-100°C) and high .concentrations (170gr/Nm3) is useful in rising removal percent and energy cost reduction

کلمات کلیدی:

VOC, Toluene, advanced oxidation, ozone, platinum

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