

عنوان مقاله:

Catalytical reduction of NO_x over granular active carbon nanocatalysts impregnated with copper oxide

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

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خلاصه مقاله:

NO and NO₂ play a major role in the formation of ground level ozone, photochemical smog and acid rain. According to these biological threats, some techniques must be applied to reduce the disturbing consequences of industrial life. In this work the selective catalytic reduction (SCR) with NH₃ and activity of copper loaded on granular active carbon (GAC) has been studied. The catalysts prepared by impregnation method in 1,3 and 7 percent metal loaded on the GAC as support. The aim was to study efficiency of copper on the catalyst's reductive activity and selectivity of the catalyst for Nitrogen. The outlet gas measured by a semi-online gas chromatograph. Among all the catalysts studied, the one with 3% copper loaded on granular activated carbon was the most suitable in NO_x reduction.

کلمات کلیدی:

NO_x, Nitrogen Oxide, selective catalytic reduction, active carbon

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