



Zr柱撑蒙脱土上负载稀土铈及铜铈催化剂的制备与表征 Preparation and Characterization of Zr Pillared Montmorillonite Supported Ce and Cu-Ce Catalysts

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中文关键词: Ce; Cu-Ce共助; VOCs; 催化氧化; 锆柱撑蒙脱土

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中文摘要:

英文摘要:

The Zr-pillared montmorillonite supported Ce and Cu-Ce catalysts were prepared by impregnation method. The performance of the catalysts was evaluated via the catalytic oxidation of volatile organic compounds (acetone, ethyl acetate, and toluene). The results showed that after supporting with Ce and Cu-Ce, the catalysts had a better reducibility. Moreover, the surface areas of the samples were increased. In addition, it was found that the Zr-pillared montmorillonite supported Cu-Ce catalysts had a higher activity and the reaction temperature decreased by 150~200 °C compared with the sample without Cu-Ce modification.

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