



掺杂Cr助剂的Pt/USY催化剂上正庚烷异构化反应研究(英文)

Hydroisomerization of n-Heptane over Pt/USY Catalysts Promoted by Cr Additive

摘要点击: 34 全文下载: 30

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

中文关键词: [加氢异构化](#) [正庚烷](#) [助剂](#) [USY](#) [Pt](#)

英文关键词: [hydroisomerization](#) [n-heptane](#) [promoter](#) [USY](#) [platinum](#)

基金项目:

作者	单位
魏瑞平	南京工业大学化学化工学院材料化学工程教育部重点实验室, 南京 210009
顾焰波	南京工业大学化学化工学院材料化学工程教育部重点实验室, 南京 210009
孔岩	南京工业大学化学化工学院材料化学工程教育部重点实验室, 南京 210009
王军	南京工业大学化学化工学院材料化学工程教育部重点实验室, 南京 210009

中文摘要:

英文摘要:

The Pt-supported USY zeolite catalysts doped with Cr, Al or Zn were prepared by impregnation, and characterized by XRD, low temperature nitrogen physisorption, H₂-chemisorption and IR spectroscopy of the pyridine adsorption. Catalytic activities were evaluated via the hydroisomerization of n-heptane with an atmospheric fixed-bed reactor. The Pt dispersion and acidity of the Pt-supported USY catalyst were influenced by the addition of the promoters. The Pt-supported catalysts promoted by Cr, Al or Zn, especially by Cr, were catalytically much more stable and exhibited much higher catalytic activity and selectivity for isomerization of n-heptane than the catalysts without the dopant. Both the conversion and selectivity are discussed in relation with the physicochemical properties of catalysts.

您是第595041位访问者

主办单位: 中国化学会 单位地址: 南京大学化学楼

服务热线: (025)83592307 传真: (025)83592307 邮编: 210093 Email: wjhx@netra.nju.edu.cn

[本系统由北京勤云科技发展有限公司设计](#)