

# 云南大学学报(自然科学版)

JOURNAL OF YUNNAN UNIVERSITY (NATURAL SCIENCES)

首页 | 期刊介绍 | 编 委 会 | 期刊订阅 | 投稿指南 | 获奖情况 | 数据库收录 | 历史名人 | 联系我们

云南大学学报(自然科学版) » 2006, Vol. 28 » Issue (3): 235-240 DOI:

最新目录 | 下期目录 | 过刊浏览 | 高级检索

Previous Articles | Next Articles

## 钛交联粘土在C3H6选择性催化还原NOx中的应用研究

王琪莹<sup>1,2</sup>, 董新法<sup>1</sup>, 林维明<sup>1,2</sup>

- 1. 华南理工大学, 化工与能源学院, 广东, 广州, 510641;
- 2. 广州大学, 化学化工学院, 广东, 广州, 510006

Application of Ti-pillared clays in selective catalytic reduction of NO<sub>x</sub> by C<sub>3</sub>H<sub>6</sub>

WANG Qi-ying<sup>1,2</sup>, DONG Xin-fa<sup>1</sup>, LIN Wei-ming<sup>1,2</sup>

- 1. College of Chemistry and Energy, South China University of Technology, Guangzhou 510640, China;
- 2. College of Chemistry and Chemical Engineering, Guangzhou University, Guangzhou 510006, China
  - 摘要
  - 参考文献
  - 相关文章

#### 全文: PDF (280 KB) HTML (KB) 输出: BibTeX | EndNote (RIS)

摘要 从钠基土合成了钛交联粘土(Ti-PILC).以交联粘土作为载体负载Cu,考察了对3H6选择性还原(SCR)NO反应的催化活性.Cu/Ti-PILC显示了很好的低温活性.Cu的负载方法影响催化剂活性.还研究了Ti-PILC负载其他金属(Fe/Ti-PILC,Ce/Ti-PILC,Zn/Ti-PILC,Co/Ti-PILC,Ag/Ti-PILC,Ni/Ti-PILC)催化剂的催化活性.用N2吸附脱附等温线和孔径分布考察了交联过程及铜的负载对粘土 结构的影响.

## 关键词: 交联粘土 Ti-PILC 氮氧化物 选择性催化还原 催化剂

Abstract: Ti-pillared clays(Ti-PILCs) were synthesized from Na-montmorillinite.Cu-doped pillared clays were studied as catalysts for selective catalytic reduction(SCR) of NO by propylene.Cu/Ti-PILC showed high activity at relatively low temperatures. The method of copper loading influences the catalytic activity of the catalysts. The following catalysts were also prepared and studied: Fe/Ti-PILC, Ce/Ti-PILC, Zn/Ti-PILC, Co/Ti-PILC, PILC,Ag/Ti-PILC and Ni/Ti-PILC.N $_2$  adsorption/desorption isotherms and pore size analysis were applied to study the influence of the pillaring process and Cu loading on the clay structure.

Key words: pillared clays Ti-PILC NO, selective catalytic reduction catalyst

收稿日期: 2005-10-12;

基金资助:This workis supported by Scientific and Technical Project of Guangdong Province(2003C34501)

#### 引用本文:

王琪莹,董新法,林维明. 钛交联粘土在C3H6选择性催化还原NOx中的应用研究[J]. 云南大学学报(自然科学版), 2006, 28(3): 235-240.

WANG Qi-ying, DONG Xin-fa, LIN Wei-ming. Application of Ti-pillared clays in selective catalytic reduction of NO<sub>v</sub> by C<sub>3</sub>H<sub>6</sub>[J]., 2006, 28(3): 235-240.

没有本文参考文献

没有找到本文相关文献

服务

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ E-mail Alert
- **▶** RSS

### 作者相关文章

- ▶ 王琪莹
- ▶ 董新法
- 林维明

## 版权所有 © 《云南大学学报(自然科学版)》编辑部

编辑出版:云南大学学报编辑部 (昆明市翠湖北路2号,650091)

电话: 0871-5033829(传真) 5031498 5031662 E-mail: yndxxb@ynu.edu.cn yndxxb@163.com