



云南大学学报(自然科学版) » 2005, Vol. 27 » Issue (2): 152-156 DOI:

化学

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

[◀ Previous Articles](#) | [Next Articles ▶](#)

Ru, CeO₂, MnO₂/TiO₂新型CWO催化剂的研制

李自弘, 涂学炎, 杨中民, 张世鸿, 金胜, 白云, 沈富昆

云南大学, 化学与材料工程学院化学系, 云南, 昆明, 650091

The study of preparation Ru-CeO₂-MnO₂/TiO₂ catalyst for catalytic wet air oxidation process

LI Zi-hong, TU Xue-yan, YANG Zhong-mim, ZHANG Shi-hong, JIN Sheng, BAI Yun, SHEN Fu-kun

Collge of Chemistry and Material Engineering, Yunnan University, Knming 650091, China

- [摘要](#)
- [参考文献](#)
- [相关文章](#)

全文: [PDF \(831 KB\)](#) [HTML \(KB\)](#) 输出: [BibTeX](#) | [EndNote \(RIS\)](#) [背景资料](#)

摘要 制备了载体为TiO₂,活性组分为Ru(w=0.5%)和Ce,Mn的氧化物的催化湿式氧化法催化剂,制备中运用了Ce,Mn硝酸盐对载体的浸渍法预处理和表面纳米化技术的组合,研究了对模拟废水的催化湿式氧化分解的催化活性,COD去除率近70%,NH₃-N去除率87.9%.

关键词: [催化湿式氧化](#) [浸渍法制备催化剂](#) [表面纳米化](#)

Abstract: The study of preparation of Ru-CeO₂-MnO₂/TiO₂ catalyst for catalytic wet air oxidation process the catalyst in which active components were Ru (0.5%),Ce and Mn oxides supported on TiO₂ was prepared with technique of surface nanometerizing.The catalyst has been applied in catalytic wet air oxidation (CWO) process of simulated wastewater containing succinic acid and (NH₄)₂SO₄.It was found that its catalytic activity was acceptable by the dterminations of COD and T_N of the simulated wastewater.The ratio of removing COD was about 70%,and vatio of removing NH₃-N was 87.9%.

Key words: [catalytic wet air oxidation](#) [preparation catalyst](#) [nanometerizing](#)

收稿日期: 2004-02-23;

基金资助:云南省"十五"攻关资助项目(2001GG18).

引用本文:

李自弘,涂学炎,杨中民等. Ru,CeO₂,MnO₂/TiO₂新型CWO催化剂的研制[J]. 云南大学学报(自然科学版), 2005, 27(2): 152-156.

LI Zi-hong,TU Xue-yan,YANG Zhong-mim et al. The study of preparation Ru-CeO₂-MnO₂/TiO₂ catalyst for catalytic wet air oxidation process[J]. , 2005, 27 (2): 152-156.

没有本文参考文献

没有找到本文相关文章

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

- ▶ [李自弘](#)
- ▶ [涂学炎](#)
- ▶ [杨中民](#)
- ▶ [张世鸿](#)
- ▶ [金胜](#)
- ▶ [白云](#)
- ▶ [沈富昆](#)

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