

分子催化  
JOURNAL OF MOLECULAR CATALYSIS( CHINA)  
( FENZI CUIHUA )

第 22 卷      第 6 期      ( 2008 年 12 月 )

目      次

研究论文

- 制备条件对碳化钼催化剂加氢脱硫性能的影响 ..... 靳广洲,赵如松,罗运强,高俊斌,孙桂大 (481)
- 聚醚季铵离子液体合成及其催化  $\text{CO}_2$  与环氧烷加成反应 ..... 赵    彬,陈殿军,李永路,蒋景阳 (487)
- 甲基丁基咪唑四羰基钴离子液体的改进合成与表征 ..... 邓凡果,胡    斌,孙    伟,夏春谷 (491)
- 以离子液体为模板剂合成 MCM-41 的研究——不同扩孔剂对介孔分子筛 MCM-41 孔径结构的影响.....  
..... 张光旭,高为芳,蔡卫权 (497)
- 高热稳定性 Cu-Mn-O 催化燃烧催化剂的制备 ..... 张    燕,卢晗锋,黄海凤,刘华彦,陈银飞 (503)
- $\text{CeO}_2$  添加量对催化剂 Cu-Ni-Ce/ $\text{SiO}_2$  性能的影响 ..... 赵彬侠,刘林学,张耀中,曹    昕,张小里,金奇庭 (507)
- 无溶剂体系中非均相催化剂催化环己烷氧化反应研究 ..... 杨丹红,赵文军,高    林 (513)
- 固体超强酸  $\text{SO}_4^{2-}/\text{TiO}_2\text{-SnO}_2$  的制备、表征及催化合成 D, L-丙交酯 ..... 刘文明,黄小强,肖    青,李凤仪 (519)
- 交联木质素负载钨催化剂的制备及对 Heck 反应的催化性能研究 ..... 吴玉锋,崔元臣 (526)
- 微波增强  $\text{H}_3\text{PW}_{12}\text{O}_{40}/\text{TiO}_2$  光催化降解染料和水杨酸的研究 .....  
..... 李    莉<sup>1,2</sup>,张秀芬,马    禹,曹艳珍,张文治,郭伊苻 (532)
- $\text{Eu}_2\text{Sn}_2\text{O}_7$  的水热合成及其光催化活性的研究 ..... 张进治,张爱平,铁小匀,崔乃毅 (539)
- B 位掺杂  $\text{GdCo}_{1-x}\text{Sr}_x\text{O}_3$  的制备及其光催化活性 ..... 牛新书,茹祥莉,陈晓丽,魏平涛,王雪丽 (544)
- 纳米  $\text{SnO}_2/\text{TiO}_2$  的制备及光催化臭氧化活性 ..... 曾玉凤,刘自力,秦祖赠 (549)
- 磁性二氧化钛纳米粒子的制备及其光催化性能 ..... 李和平,王宙东,邹贵荣 (555)

研究简报

- 离子液体中 Mn(Salen) 催化仲醇的氧化反应研究 ..... 景    色,李    臻,夏春谷 (561)

进展与评述

- 新型双金属催化体系在不对称合成中的应用研究进展 ..... 高月华,徐利文,夏春谷 (565)

## CONTENTS

## Articles

- Effect of Preparation Conditions on Dibenzothiophene Hydrodesulfurization Performance of Molybdenum Carbide ..... JIN Guang-zhou, ZHAO Ru-song, LUO Yun-qiang, GAO Jun-bin, SUN Gui-da (481)
- Synthesis of Polyether Modified Quaternary Ammonium Ionic Liquids and their Catalysis on the Cycloaddition of CO<sub>2</sub> to Epichlorohydrin ..... ZHAO Bin, CHEN Dian-Jun, LI Yong-Lu, JIANG Jing-Yang (487)
- Improved Synthesis and Full Characterization of ionic liquid 1-butyl-3-methylimidazolium Tetracarbonylcobaltate ..... DENG Fan-guo, HU Bin, SUN Wei, XIA Chun-gu (491)
- Study on the Synthesis of MCM-41 with the Ionic Liquid as Novel Template——Effect of Different Swelling Agents on the Pore Structure of Mesoporous MCM-41 ..... ZHANG Guang-xu, GAO Wei-fang, Cai Wei-quan (497)
- Preparation of the High Thermal Stable Cu-Mn-O Catalysts for VOCs Catalytic Combustion ..... ZHANG Yan, LU Han-feng, HUANG Hai-feng, LIU Hua-yan, CHEN Yin-fei (503)
- Effect of Doped CeO<sub>2</sub> Loading on Catalytic Activity of Cu-Ni-Ce/SiO<sub>2</sub> Catalyst ..... ZHAO Bin-xia, LIU Lin-xue, ZHANG Yao-zhong, CAO Xin, ZHANG Xiao-li, JIN Qi-ting (507)
- Study of Catalyzed Oxidation of Cyclohexane in a Solvent-free System using a unique Combination of two Heterogeneous Catalysts ..... YANG Dan-hong, ZHAO Wen-jun, GAO Lin (513)
- Preparation and Characterization of Solid Superacid SO<sub>4</sub><sup>2-</sup>/TiO<sub>2</sub>-SnO<sub>2</sub> and Study on Synthesis of D,L-lactide ..... LIU Wen-ming, HUANG Xiao-qiang, XIAO Qing, LI Feng-yi (519)
- Synthesis of Cross-linking lignin Supported Palladium Complex and Its Catalytic Properties for Heck Reaction ..... WU Yu-feng, CUI Yuan-chen (526)
- Photodegradation of Dyes and Salicylic Acid under Microwave-enhanced H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub>/TiO<sub>2</sub> Catalyst ..... LI Li, ZHANG Xiu-fen, MA Yu, CAO Yan-zhen, ZHANG Wen-zhi, GUO Yi-hang (532)
- Hydrothermal Synthesis and Photocatalytic Activities Characterization of Europium( III ) Stannate ..... ZHANG Jin-zhi, ZHANG Ai-ping, TIE Xiao-yun, CUI Nai-yi (539)
- Synthesis of Compounds GdCo<sub>1-x</sub>Sr<sub>x</sub>O<sub>3</sub> Doped in B Sites and Its Photocatalytical Properties ..... NIU Xin-shu, RU Xiang-li, CHEN Xiao-li, WEI Ping-tao, WANG Xue-li (544)
- Preparation and Activity of the Nano-SnO<sub>2</sub>/TiO<sub>2</sub> Photo-ozone Catalyst ..... ZENG Yu-feng, LIU Zi-li, QIN Zu-Zeng (549)
- Preparation of Magnetic Titanium Dioxide Nanoparticles and Its Photocatalytic Activity ..... LI He-ping, WANG Zhou-dong, ZOU Gui-rong (555)

## Research notes

- Oxidation of sec-Alcohols Catalyzed by Mn(Salen) in Ionic Liquids ..... JING Se, LI Zhen, XIA Chun-gu (561)

## Review and Progress

- Research Progress in Application of the Novel Bimetallic Catalysts in Asymmetric Synthesis ..... GAO Yue-hua, XU li-wen, XIA Chun-gu (565)

顾问 (Advisors) (以姓氏笔画为序)

闵恩泽 (MIN Enze) 彭少逸 (PENG Shaoyi) 蔡启瑞 (CAI Qirui)

名誉主编 (Founding Editor-in-Chief)

王弘立 (WANG Hongli)

主 编 (Editor-in-Chief)

李树本 (LI Shuben)

副 主 编 (Associate Editors-in-Chief)

殷元骐 (YIN Yuanqi) 李文钊 (LI Wenzhao) 万惠霖 (WAN Huilin) 何鸣元 (HE Mingyuan)

伏羲路 (FU Yilu) 夏春谷 (XIA Chungu) 吕功煊 (LU Gongxuan) (常务)

委 员 (Editorial Board) (以姓氏笔画为序)

于作龙 (YU Zuolong) 王晓来 (WANG Xiaolai) 计亮年 (JI Liangnian) 邓友全 (DENG Youquan)

包信和 (BAO Xinhe) 卢冠忠 (LU Guanzhong) 安立敦 (AN Lidun) 刘汉范 (LIU Hanfan)

孙予罕 (SUN Yuhan) 邱显清 (QIU Xianqing) 吕士杰 (LU Shijie) 陆维敏 (LU Weimin)

李全芝 (LI Quanzhi) 李贤均 (LI Xianjun) 李赫喧 (LI Hexuan) 李永丹 (LI Yongdan)

何 仁 (HE Ren) 汪汉卿 (WANG Hanqing) 沈师孔 (SHEN Shikong) 沈俭一 (SHEN Jianyi)

辛 勤 (XIN Qin) 杨锡尧 (YANG Xiyao) 张鸿斌 (ZHANG Hongbin) 郑 卓 (ZHENG Zhuo)

钟顺和 (ZHONG Shunhe) 钟邦克 (ZHONG Bangke) 唐 勇 (TANG Yong) 徐奕德 (XU Yide)

徐贤伦 (XU Xianlun) 索继栓 (SUO Jishuan) 黄仲涛 (HUANG Zhongtao) 谢有畅 (XIE Youchang)

甄开吉 (ZHEN Kaiji)

## 分子催化

## FENZI CUIHUA

(双月刊 1987 年创刊)

第 22 卷 第 6 期 (总第 122 期)

2008 年 12 月

## JOURNAL OF MOLECULAR

## CATALYSIS (CHINA)

(BIMONTHLY Started in 1987)

Vol. 22, No. 6

Dec. 2008

编 辑 《分子催化》编辑部  
(兰州市天水路 342 号, 730000)  
Tel: (0931) 4968226  
http://www.mcc.ac.cn  
E-mail: FZCH@lzb.ac.cn

主 编 李树本  
主 管 中国科学院  
主 办 中国科学院兰州化学  
物理研究所

出 版  
(北京东黄城根北街 16 号, 邮编: 100717)

印刷装订 兰州中科印务有限责任公司

总发行处 兰州市邮政局

国外发行 中国国际图书贸易总公司  
地址: 北京 399 信箱 邮编: 100044

订购处 全国各地邮局

Edited by Editorial Board of Journal of Molecular Catalysis (China)  
(342 Tianshui Road, Lanzhou 730000)  
Tel: (0931) 4968226  
http://www.mcc.ac.cn  
E-mail: FZCH@lzb.ac.cn

Chief Editor: LI Shuben

Charged by The Chinese Academy of Sciences

Sponsored by Lanzhou Institute of Chemical Physics,  
The Chinese Academy of Sciences

Published by Science Press  
(16 Donghuangchenggen, North Street, Beijing 100717)

Printed by The Lanzhou Zhongke Printing Co., Ltd.

Distributed by Lanzhou Post Office

Foreign China International Book Trading  
Add: P. O. Box 399, Beijing 100044, China

Subscription Service: Post Office in China