

北京化工大学学报

(自然科学版)

2010年11月 第37卷 第6期

(卷终)

目次

· 化学与化学工程 ·

- CO 偶联合成草酸二丁酯反应研究 贺黎明 陈晓春 马京生 王伟 何海龙(1)
- 侧伸式搅拌槽中叶轮区的局部速度 朱磊 黄雄斌 郑晓东(7)
- 小比表面积双曲型规整填料性能的冷模实验 杨明 李群生 李伟锋(14)
- 3,5-二硝基苯甲酸与3-硝基苯甲酸的混合物在含夹带剂超临界 CO₂ 中的溶解度研究
..... 余湘芸 金君素 唐昭 张泽廷 徐静年(18)
- 组合浆层间距对搅拌槽内流动特性的影响 童鸣 赵静 李志鹏 高正明(23)
- 圆盘反应器内流动和成膜性能的数值模拟 杨晓宇 李志鹏 高正明(29)
- 循环流化床烧结烟气脱硫灰理化性能研究 金婷 朱廷钰 叶猛 匡俊艳 荆鹏飞(35)
- 硅铝包覆钛白粉水悬浮液 pH 值调控规律 李蓓 王亭杰 郭奋 吴海霞(41)
- β -CD 包结 2-苯基-N-对甲苯磺酰氨基丙烷过程的理论初探 樊芳 杨作银(46)
- SAPO-34 和 MeAPO-34 分子筛的合成及催化性能 王红霞 李建伟 李英霞 陈标华(50)

· 材料科学与工程 ·

- 官能团化碳纳米管的表征 金劲 骞伟中 魏飞 张敬畅(55)
- 聚(D,L-乳酸)微球的制备与释药性能研究 石淑先 韩文卿 渠艳 林伟峰 夏宇正 王为民(60)
- 碱溶性光敏有机硅预聚物的合成 江盛玲 张璐 孙芳(64)
- 微流体反应器制备金纳米粒子的研究 商运生 马育红 杨万泰(70)
- D₄^{vi}-丙烯酸酯共聚乳液的制备与表征 袁学芹 陈松 李效玉(76)
- 有机化白炭黑与异戊二烯共聚合的研究 徐健 白玉 慕春雨 佟园园 赵素合 张兴英(81)
- 分散聚合两步法制备壳交联聚合物微球及自模板制备空心球 张友穗 刘莲英 张芬 杨万泰(86)
- 微反应器结合水热法制备羟基磷灰石纳米粉体 杨庆 王洁欣 郭奋 邵磊 陈建峰(92)
- 单分散苯乙烯-马来酸酐共聚物微球增长方式探究 郝国亮 刘振杰 邓建元 杨万泰(98)
- 双胶束模板合成高结晶度的片状结构聚吡咯 王玉洁 钟文斌(103)

· 生物技术与环境工程 ·

- 利用活性污泥发酵生产微生物复合菌肥 陈毅明 董鹏 刘纪昭 黄法奇 张鹏 陈畅(107)
- 两种消除 *Klebsiella pneumoniae* 重组型质粒的方法 王熙 萨娜 杨建国 田平芳(112)
- 大孔疏水载体的制备及其在脂肪酶固定化中的应用 付大雁 蔡宏举 周鑫 秦培勇 谭天伟(116)
- His-tag 标记的嗜热菌来源 L-脯氨酸脱氢酶的纯化与性质
..... 林乐懿 张丽叶 末信一郎 郑海涛 白石智美 楠崎阳友(121)

· 机电工程和信息科学 ·

- 基于熔体黏度均匀性的注塑螺杆性能评价方法 金艳 何亚东 信春玲 周雅文 李庆春 吴大鸣(126)
- 基于 DDC 的 SAW 回波信号频率提取方法 陈磊 周世圆(131)

· 管理与数理科学 ·

- 摩擦层形成的元胞自动机模拟 徐野 吕亚非 黄晋阳(136)
- 基于泊松过程的校园车辆调度模型研究 董一凝 宴清照 李志强 姜广峰(141)

2010年总目次 (I)

责任编辑 董鹏 英文审校 David G Evans

JOURNAL OF BEIJING UNIVERSITY OF CHEMICAL TECHNOLOGY

(Natural Science Edition)

Vol. 37 No. 6 Nov. 2010

(End of Vol. 37)

CONTENTS

Chemistry and Chemical Engineering

- Synthesis of dibutyl oxalate by CO coupling HE LiMing CHEN XiaoChun MA JingSheng WANG Wei HE HaiLong(1)
Local area velocities in a tank with side-entering impellers ZHU Lei HUANG XiongBin ZHENG XiaoDong(7)
Cold-flow model tests of the performance of SQ type structured packings with small surface area
..... YANG Ming LI QunSheng LI WeiFeng(14)
The solubility of mixtures of 3,5-dinitrobenzoic acid and *m*-nitrobenzoic acid in supercritical-CO₂ with added cosolvents
..... YU XiangYun JIN JunSu TANG Zhao ZHANG ZeTing XU JingNian(18)
Investigation of fluid flow in a multi-impeller stirred tank using particle image velocimetry
..... TONG Ming ZHAO Jing LI ZhiPeng GAO ZhengMing(23)
Numerical simulation of the flow and film-forming characteristics in a horizontal rotating disk reactor
..... YANG XiaoYu LI ZhiPeng GAO ZhengMing(29)
Physical and chemical properties of circulating fluidized bed sintering flue gas desulfurization ash
..... JIN Ting ZHU TingYu YE Meng KUANG JunYan JING PengFei(35)
pH control of suspensions of titania coated with silica and alumina LI Bei WANG TingJie GUO Fen WU HaiXia(41)
Theoretical study of the formation of the β -CD-N-tosyl-2-phenyl-aziridine adduct FAN Fang YANG ZuoYin(46)
Synthesis and catalytic performance of SAPO-34 and MeAPSO-34 zeolites
..... WANG HongXia LI JianWei LI YingXia CHEN BiaoHua(50)

Material Science and Engineering

- Characterization of functionalized carbon nanotubes by raman and IR spectroscopy and acid-base titrations
..... JIN Shao QIAN WeiZhong WEI Fei ZHANG JingChang(55)
Preparation and drug-releasing performance of poly(*D,L*-lactic acid) microspheres
..... SHI ShuXian HAN WenQing QU Yan LIN WeiFeng XIA YuZheng WANG WeiMin(60)
Synthesis of an alkali-soluble photosensitive polysiloxane oligomer JIANG ShengLing ZHANG Lu SUN Fang(64)
Preparation of gold nanoparticles in a complete polymeric microfluidic reactor under UV irradiation
..... SHANG YunSheng MA YuHong YANG WanTai(70)
Synthesis and characterization of a 2,4,6,8-tetravinyl-2,4,6,8-tetramethylcyclotetrasiloxane (D₄^{VI})-acrylate copolymeric latex
..... YUAN XueQin CHEN Song LI XiaoYu(76)
Studies of the copolymerization of the organozinc silica and isoprene
..... XU Jian BAI Yu MU ChunYu TONG YuanYuan ZHAO SuHe ZHANG XingYing(81)
Preparation of core-shell and hollow polymer particles by two-stage dispersion polymerization
..... ZHANG YouWen LIU LianYing ZHANG Fen YANG WanTai(86)
Preparation of hydroxyapatite nanoparticles using a microreactor combined with hydrothermal aging
..... YANG Qing WANG JieXin GUO Fen SHAO Lei CHEN JianFeng(92)
The nucleation and particle growth mechanisms of monodisperse microspheres of PSMA in self-stable precipitation polymerization
..... HAO GuoLiang LIU ZhenJie DENG JianYuan YANG WanTai(98)
Synthesis of highly crystalline polypyrrole sheets by a dual-template method WANG YuJie ZHONG WenBin(103)

Biological Technology and Environment Engineering

- Use of an active sludge to produce a compound microbial fertilizer
..... CHEN YiMing DONG Peng LIU JiZhao HUANG FaQi ZHANG Peng CHEN Chang(107)
Two methods for eliminating recombinant plasmids in *Klebsiella pneumoniae*
..... WANG Xi SA Na YANG JianGuo TIAN PingFang(112)
Preparation of a macroporous hydrophobic poly(styrene-divinylbenzene) support and its application in lipase immobilization
..... FU DaYan CAI HongJu ZHOU Xin QIN PeiYong TAN TianWei(116)
Purification and characterization of His-tag *L*-proline dehydrogenase from a hyperthermophilic archaeon, *Thermococcus profundus*
..... LIN LeYi ZHANG LiYe Shin-ichiro SUYE ZHENG HaiTao Satomi SHIRAIISHI Yosuke OKEZAKI(121)

Mechanical Engineering and Informatics

- Meltviscosity homogeneity for performance evaluation of injection molding screw
..... JIN Yan HE YaDong XIN ChunLing ZHOU YaWen LI QingChun WU DaMing(126)
Frequency extraction of SAW echo signal on DDC CHEN Lei ZHOU ShiYuan(131)

Management and Mathematics

- Simulation of friction layer formation by the cellular automata model XU Ye LU YaFei HUANG JinYang(136)
A model of campus vehicle scheduling based on Poisson process
..... DONG YiNing YAN QingZhao LI ZhiQiang JIANG GuangFeng(141)