



ISSN 1672-6987
CODEN QKDXAQ

青岛科技大学学报

自然科学版

JOURNAL OF QINGDAO UNIVERSITY OF SCIENCE
AND TECHNOLOGY
(NATURAL SCIENCE EDITION)

第42卷 第5期 总第192期
Vol.42 No.5 Sum 192



中国科技核心期刊
中国高校优秀科技期刊
全国石油和化工行业百强期刊
中国高校编辑出版质量优秀科技期刊
华东地区优秀期刊
山东省优秀期刊

5

2021
中国·青岛

QINGDAO KEJI DAXUE XUEBAO(ZIRAN KEXUE BAN)

万方数据

目 次

研究综述

传递函数辨识(22): 线性回归系统的递阶迭代参数估计 丁 锋, 刘喜梅(1)

化学化工

离子色谱法测定茶叶中的游离氟 尹秀贞, 牛淑妍, 张 涛, 李 莎, 崔 鹤(14)

1-烷氧基-4-羟基-2,2,6,6-四甲基哌啶醇的催化合成 颜 博, 陈 程, 王政文, 王少娟, 唐林生(19)

超临界流体-高效液相色谱法萃取芹菜中芹菜素 王高敏, 吴 越, 王 霞, 陈夫山, 吉 喆(24)

新型串行流化床流体动力学研究 宋鸣航, 王 涛, 刘晶晶, 刘永卓(30)

聚 6-羟基己酸酯化反应 陈佃昆, 程绚莺, 谢传欣(35)

磁响应氧化石墨烯纳米材料的合成与表征 张鑫韬, 徐 瑾, 王金玉, 何 燕(41)

ZnIn₂S₄/ZnS 复合材料的制备与光催化产氢性能 邹晓莉, 许静涵, 宋玉玉, 高宇然, 耿延玲(48)

碳纳米管对热固性复合材料电阻焊接的增强作用
..... 熊需海, 王道晟, 任 荣, 董佳鹏, 崔 旭, 郭子民, 雷娟娟, 李桂洋, 陈 平(54)

电场辅助水合物生成与分解研究进展 何 燕, 高昊然, 巢 昆, 王 飞(62)

高分子科学与工程

活性碳酸钙对丁腈橡胶硫化反应动力学的影响 崔子文, 景元蓉, 刘广永(69)

复合材料负泊松比结构的冲击力学性能 赵昌方, 朱宏伟, 任 杰, 仲健林(75)

混炼型聚氨酯橡胶/乙丙橡胶硫化胶交联密度与应力-应变关系的拟合和预测 杜 伟, 邓 涛(81)

机械工程与自动化

一种搭载深度相机的机器人手眼标定方法 曹梦龙, 靳利文(87)

风力机的叶片翼型设计及性能分析 李鹏超, 周 艳, 高 杨, 张树坤(94)

信息与数理科学

低轨卫星星座系统的快速随机接入算法 秦 兴, 冉 静, 刘 芳(103)

一维反转对称光子结构的表面阻抗特性及其应用 王焱萍, 毛维涛, 赵秋玲, 张清悦, 王 霞(111)

CONTENTS

Review

Transfer Function Identification. Part V: Hierarchical Iterative Parameter Estimation for Linear Regressive Models DING Feng, LIU Ximei(1)

Chemistry and Chemical Engineering

Determination of Free Fluorine in Tea by Ion Chromatography YIN Xiuzhen, NIU Shuyan, ZHANG Tao, LI Sha, CUI He(14)

Catalytic Synthesis of 1-Alkoxy-4-hydroxyl-2,2,6,6-tetramethylpiperidine YAN Bo, CHEN Cheng, WANG Zhengwen, WANG Shaojuan, TANG Linsheng(19)

Supercritical Fluid-High Performance Liquid Chromatography Extraction of Apigenin from Celery WANG Gaomin, WU Yue, WANG Xia, CHEN Fushan, JI Zhe(24)

Study on Hydrodynamics Characteristic of a Novel Interconnected Fluidized Bed SONG Minghang, WANG Tao, LIU Jingjing, LIU Yongzhuo(30)

Esterification Reaction of Poly 6-Hydroxycaproate CHEN Diankun, CHENG Xuanying, XIE Chuanxin(35)

Synthesis and Characterization of Magnetically Responsive Graphene Oxide Materials ZHANG Xintao, XU Jin, WANG Jinyu, HE Yan(41)

Synthesis and Hydrogen Evolution Properties of ZnIn₂S₄/ZnS Composites ZOU Xiaoli, XU Jinghan, SONG Yuyu, GAO Yuran, GENG Yanling(48)

Enhancement of Thermosetting Composites Resistance Welding by Carbon Nanotubes XIONG Xuhai, WANG Daosheng, REN Rong, DONG Jiapeng, CUI Xu, GUO Zimin, LEI Juanjuan, LI Guiyang, CHEN Ping(54)

Research Progress of Electric Field Assisted Hydrate Formation and Decomposition HE Yan, GAO Haoran, CHAO Kun, WANG Fei(62)

Polymer Materials Science and Engineering

Effect of Activated Calcium Carbonate on Vulcanization Kinetics of Nitrile Rubber CUI Ziwen, JING Yuanrong, LIU Guangyong(69)

Impact Mechanics of Composite Materials with Negative Poisson's Ratio Structure ZHAO Changfang, ZHU Hongwei, REN Jie, ZHONG Jianlin(75)

Fitting and Prediction of the Relationship Between Crosslinking Density and Stress-Strain of MPU/EPDM Blending Rubber DU Wei, DENG Tao(81)

Mechanical Engineering and Automation

A Calibration Method of Robot Hand and Eye Equipped with Depth Camera CAO Menglong, JIN Liwen(87)

Airfoil Design and Performance Analysis of Wind Turbine Blades LI Pengchao, ZHOU Yan, GAO Yang, ZHANG Shukun(94)

Science of Information and Mathematics/Physics

A Fast Random Access Algorithm of LEO Satellite Constellation QIN Xing, RAN Jing, LIU Fang(103)

Surface Impedance Characteristics and Applications of One-Dimensional Photonic Structure with Inversion Symmetry WANG Yanping, MAO Weitao, ZHAO Qiuling, ZHANG Qingyue, WANG Xia(111)