

常州大学学报(自然科学版)

第 33 卷 第 3 期(总第 138 期)

2021 年 5 月

期刊基本参数:CN 32-1822/N * 1989 * b * A4 * 96 * zh * P * ¥18.00 * 500 * 11 * 2021-05

目 次

材料科学与工程

- 退火温度对共晶和单相 Al-Co-Cr-Fe-Ni 高熵合金显微组织及硬度的影响
..... 吴长军,熊伟,周琛,刘亚,苏旭平(1)
硫酸铜参比电极用多孔陶瓷头的制备与性能 董亮,吴桐,姚知林,石超杰,赵会军(9)

化学化工:多相催化专题

- 壬基酚加氢制壬基环己醇 Ru-Ce/TiO₂ 催化剂制备及工艺研究
..... 钱俊峰,王饼,谢京燕,孙中华,何明阳,陈群(17)
黏土多孔材料负载纳米质子化氮化碳(g-C₃N₄)及其增强光催化性能研究
..... 石绍明,王亚文,毛辉麾,张青(24)

机械制造及其自动化

- 改进型 ESMD 在齿轮箱轴承故障诊断中的应用 别锋锋,郭越,谷晟,裴峻峰,庞明军(32)
用于预测多层滤网压降的高效数值模型 卜诗,师诚承,张琳,许伟刚,柳林(42)

石油及天然气工程

- 基于改进理想充填理论的堵漏颗粒粒度分布设计方法 张世锋,王相,崔新颖,张浩,洪展(54)
大倾角厚层轻质油油藏含水上升规律及挖潜措施研究 王永平,朱志强,房娜,陈晖,孟智强(60)

生物医药工程

- 磷酸钠组合氧气预处理提高玉米秸秆酶解糖化效率
..... 徐忠,宁艳春,严生虎,岳军,张跃,徐友海,王利群,卿青(65)
COVID-19 抗体检测试剂盒的制备与应用 宋厚煜,刘心恺,张炯,赵希岳(75)

土木工程

- 小半径曲线隧道盾构始发致地表沉降变形规律 冯晓九,魏浩,刘少峰,王鹏(82)

Journal of Changzhou University(Natural Science Edition)

Vol.33 No.3(Sum No.138)

May 2021

Contents

Materials Science and Engineering

- Effect of Annealing Temperature on Microstructure and Hardness of the Al-Co-Cr-Fe-Ni High Entropy Alloys with Eutectic Structure and Single Phase
..... WU Changjun, XIONG Wei, ZHOU Chen, LIU Ya, SU Xuping(1)
Preparation and Properties of Porous Ceramic Head for Copper Sulfate Reference Electrode
..... DONG Liang, WU Tong, YAO Zhilin, SHI Chaojie, ZHAO Huijun(9)

Chemistry and Chemical Engineering: Heterogeneous Catalysis

- Study on Preparation of Ru-Ce/TiO₂ Catalyst and Process Optimization for Hydrogenation of Nonylphenol to Nonylcyclohexanol
... QIAN Junfeng, WANG Xing, XIE Jingyan, SUN Zhonghua, HE Mingyang, CHEN Qun(17)
Synthesis of Clay-Based Porous Materials Loaded Protonated Nano g-C₃N₄ and Application in Enhance of Photocatalysis SHI Shaoming, WANG Yawen, MAO Huihui, ZHANG Qing(24)

Mechanical Manufacture and Automation

- Application Research of Improved ESMD on Fault Diagnosis Method for Gearbox Bearings
..... BIE Fengfeng, GUO Yue, GU Sheng, PEI Junfeng, PANG Mingjun(32)
A High-Efficiency Numerical Model for Predicting Pressure Drop Across Multilayer Mesh Filters
..... BU Shi, SHI Chengcheng, ZHANG Lin, XU Weigang, LIU Lin(42)

Oil and Natural Gas Engineering

- Modified Ideal Packing Theory to Optimize Size Distribution of Plugging Particle for Fracture Lost Circulation Control
..... ZHANG Shifeng, WANG Xiang, CUI Xinying, ZHANG Hao, HONG Zhan(54)
Research on the Rising Law of Water Cut in Large Inclination Light Oil Reservoir and Its Excavation Measures ... WANG Yongping, ZHU Zhiqiang, FANG Na, CHEN Hui, MENG Zhiqiang(60)

Biomedical Engineering

- Improvement of Enzymatic Saccharification Efficiency of Corn Stover by a Sodium Phosphate and Oxygen Combined Pretreatment XU Zhong, NING Yanchun,
YAN Shenghu, YUE Jun, ZHANG Yue, XU Youhai, WANG Liquan, QING Qing(65)
Preparation and Application of COVID-19 Antibody Detection Kit
..... SONG Houyu, LIU Xinkai, ZHANG Jiong, ZHAO Xiyue(75)

Civil Engineering

- Ground Settlement Caused by Shield Launching of Small Radius Curved Tunnel
..... FENG Xiaojiu, WEI Hao, LIU Shaofeng, WANG Peng(82)