

# 常州大学学报(自然科学版)

第 33 卷 第 4 期(总第 139 期)

2021 年 7 月

期刊基本参数:CN 32-1822/N \* 1989 \* b \* A4 \* 96 \* zh \* P \* ¥18.00 \* 500 \* 11 \* 2021-07

## 目 次

### 材料科学与工程:复合材料专题

- CdS 修饰 TiO<sub>2</sub>棒阵列/导电云母复合材料及其光阴极保护性能 ..... 左士祥,曹晓曼,刘展,刘文杰,李霞章,姚超(1)  
Al 基非晶/1060 铝合金层状复合材料研究 ..... 王知莺,章星宇,赵琴,刘寿军,刘麟(8)

### 化学化工

- Zn-Mg-La 催化剂的制备及其用于酯化合成单甘酯 ..... 石剑,杨川,冯娟,王车礼(14)

### 生物医药工程

- 苯甲酰胺类磷酸二酯酶(IV)抑制剂的设计、合成与生物活性研究 ..... 冯筱晴,陈意发,宋国强,唐龙,柯衡明(21)  
常压室温等离子体技术快速选育多拉菌素高产菌 ..... 梁剑光,栗波,赵明霞,王泽建,任敏,凌青云(30)

### 数理科学

- 无参数忆阻系统的平面偏置控制共存分岔研究 ..... 张希,罗皎燕,武花干,包伯成(41)  
反常涡旋光束在梯度折射率介质中的传输特性 ..... 黄丽,唐斌(49)

### 其 他

- 激波诱导油液柱变形、破碎及其雾化过程研究 ..... 黄勇,赵庆贤,刘龙飞,解立峰,陈群(55)  
基于交叉验证网格寻优的 GBDT-LSTM 水产养殖溶解氧预测 ..... 宦娟,李慧,李明宝,陈波(63)  
原油沥青质特性及其对含蜡油结晶胶凝的影响 ..... 雷云,于鹏飞,柳扬,彭浩平,赵会军(72)  
具有解析式位置正解的三自由度并联机构逆动力学求解 ..... 尤晶晶,王恪,沈惠平(83)

# Journal of Changzhou University(Natural Science Edition)

Vol.33 No.4(Sum No.139)

Jul. 2021

## Contents

### Materials Science and Engineering:Composite Materials

- CdS Modified TiO<sub>2</sub> Nanorod Array/Conductive Mica and Their Photocathodic Protection Performance  
... ZUO Shixiang, CAO Xiaoman, LIU Zhan, LIU Wenjie, LI Xiaozhang, YAO Chao(1)  
Study on Al-Based Amorphous/1060 Aluminum Layered Composites Materials .....  
..... WANG Zhizhi, ZHANG Xingyu, ZHAO Qin, LIU Shoujun, LIU Lin(8)

### Chemistry and Chemical Engineering

- Preparation of Zn-Mg-La Catalyst and Its Application in Synthesis of Monoglyceride .....  
..... SHI Jian, YANG Chuan, FENG Juan, WANG Cheli(14)

### Biomedical Engineering

- Design, Synthesis and Biological Evaluation of Benzoyl Analogues as PDE4 Inhibitors .....  
..... FENG Xiaoqing, CHEN Yifa, SONG Guoqiang, TANG Long, KE Hengming(21)  
Mutation Breeding of a High Doramectin Producing Strain by Atmospheric Pressure and Room Temperature Plasma Technology .....  
..... LIANG Jianguang, LI Bo, ZHAO Mingxia, WANG Zejian, REN Min, LING Qingyun(30)

### Mathematics and Physics

- Plane Offset-Boosted Coexisting Bifurcations in No-Argument Memristive System .....  
..... ZHANG Xi, LUO Jiaoyan, WU Huagan, BAO Bocheng(41)  
Propagation Properties of Anomalous Vortex Beams in Gradient-Index Medium .....  
..... HUANG Li, TANG Bin(49)

### Other Columns

- Study of Deformation, Breakup and Atomization of Diesel Fuel Column by Shock Wave .....  
..... HUANG Yong, ZHAO Qingxian, LIU Longfei, XIE Lifeng, CHEN Qun(55)  
Prediction of Dissolved Oxygen in GBDT-LSTM Aquaculture Based on Cross-Validation Grid Optimization .....  
..... HUAN Juan, LI Hui, LI Mingbao, CHEN Bo(63)  
Asphaltene Properties and Its Effect on Crystallization and Gelation of Waxy Oil .....  
..... LEI Yun, YU Pengfei, LIU Yang, PENG Haoping, ZHAO Huijun(72)  
Inverse Dynamics of a 3-DOF Parallel Mechanism with Analytical Forward Kinematics .....  
..... YOU Jingjing, WANG Ke, SHEN Huiping(83)