

ISSN 1674-358X

CN 32-1789/N

徐州工程学院学报

JOURNAL OF XUZHOU INSTITUTE OF TECHNOLOGY

自然科学版

Natural Sciences Edition

RCCSE中国核心学术期刊

江苏省一级期刊

中国高校优秀科技期刊



4

2019

第34卷 第4期

Vol.34 No.4

[总第134期]

2019-12-30

目 次

第34卷终 附总目次

【教授论坛】

- 一类具有庇护效应的非自治的生物捕食模型 夏永辉,申艳枫 (1)

- 基于混沌和伽罗瓦域运算的新型彩色图像加密算法 叶瑞松,兰 欢 (8)

- 新型二维材料 MXene 在光催化领域应用的研究进展 吕康乐,李开宁,李志鹏,等 (18)

- 基于 Android 的焊机监控 APP 设计与开发 周方明,孙为乾,蒋 燕,等 (24)

- 梨皮多酚的乙醇提取及抗氧化性研究 宋 慧,成 军 (28)

【应用基础研究】

- 基于改进人工势场法的井下救援机器人的路径规划研究

- 邱永强,李 帅,李忠杰 (32)

- 海洋石油滚动轴承故障计算分析软件工具设计 智瑞平,李 进,王庆国,等 (38)

- 统计推断中的 Monte Carlo 方法探讨 丁咏梅,黄 锐,柯 胜 (43)

基于 LS-SVM 与 BP 算法的非等高扬尘污染模型发现及分类预测

..... 鞠训光,刘 枫,黎普涛 (48)

微塑料在肠道的蓄积毒性及其生态危害研究进展 袁 鹏,胡献刚,周启星 (54)

【工程技术】

低成本充填采矿技术研究进展以及固结粉推广应用展望

..... 杨晓炳,高 谦,武拴军,等 (59)

某履带式自行走起重机转台结构优化设计 商晓恒,崔 哲,肖彦峰,等 (64)

接转站抗震和抗风性能的有限元分析 孙 颖,袁 野,滕振超 (70)

纤维布加固 T 形截面连续梁的弯矩重分布数值分析 镇 斌,施鹏飞,王军洁 (76)

载体在富营养化水体脱氮中的应用现状及发展趋势 曹文平,孙 玲,汪银梅,等 (83)

城市干道绿化植物的调查与分析

——以徐州市富春路为例 黄绍辉,刘雪妍,刘 艳 (88)

CONTENTS

Professors Forum

- A Non-autonomous Predator-prey Model with Refuge Effect XIA Yonghui ,SHEN Yanfeng (1)
- A Novel Color Image Encryption Algorithm Based on Chaos and Galois Field Operation YE Ruisong ,LAN Huan (8)
- Research Progress of a Novel Two-dimensional Material (MXene) in Photocatalysis LÜ Kangle ,LI Kaining ,LI Zhipeng ,et al (18)
- Android-based APP Design and Development of Welding Machine Monitoring System ZHOU Fangming ,SUN Weiqian ,JIANG Yan ,et al (24)
- Ethanol Extraction and Antioxidant Research on Polyphenols of Pear Skin SONG Hui ,CHENG Jun (28)

Applied Basic Research

- Research on Path Planning of Downhole Rescue Robot Based on Improved Artificial Potential Field Method QI Yongqiang ,LI Shuai ,LI Zhongjie (32)
- Design of Software Tool for Fault Calculation and Analysis of Offshore Oil Rolling Bearings ZHI Ruiping ,LI Jin ,WANG Qingguo ,et al (38)
- Discussion on Monte Carlo Method in Statistical Inference DING Yongmei ,HUANG Rui ,KE Sheng (43)
- Detective Model and Classification Prediction of Non-equal Altitude Dust Pollution Based on LS-SVM and BP Algorithm JU Xunguang ,LIU Feng ,LI Putao (48)
- Progress on Cumulative Toxicity and Ecological Hazards of Microplastics in Intestinal Tract YUAN Peng ,HU Xiangang ,ZHOU Qixing (54)

Engineering Technology

- Research Progress on Low-cost Filling Mining Technology and Application Prospects of Consolidated Powder Binding Material YANG Xiaobing ,GAO Qian ,WU Shuanjun ,et al (59)
- Optimal Design on the Turntable Structure of a Certain Self-propelled Crawler Crane SHANG Xiaoheng ,CUI Zhe ,XIAO Yanfeng ,et al (64)
- Finite Element Analysis of Seismic and Wind Resistance Performance of Transfer Stations SUN Ying ,YUAN Ye ,TENG Zhenchao (70)
- Numerical Analysis of Bending Moment Redistribution of T-section Continuous Beam Strengthened with Fiber Reinforced Polymer ZHEN Bin ,SHI Pengfei ,WANG Junjie (76)
- Current Application Status and Development Trend of Bio-carriers in Denitrification of Eutrophic Water CAO Wenping ,SUN Ling ,WANG Yinmei ,et al (83)
- Investigation and Analysis of Greening Plants on Urban Main Road :
A Case Study of Fuchun Road in Xuzhou City HUANG Shaohui ,LIU Xueyan ,LIU Yan (88)