



ISSN 1674-649X
CN 61-1471/N

西安工程大学学报

Journal of Xi'an Polytechnic University

中国科技核心期刊
RCCSE 中国核心学术期刊
三秦卓越科技期刊

2023年2月

第37卷 第1期
Vol.37 No.1

ISSN 1674-649X



9 771674 649239

西安工程大学学报

XI'AN GONGCHENG DAXUE XUEBAO

1986 年创刊,双月刊

2023 年 2 月

第 37 卷第 1 期(总第 179 期)

目 次

● 纺织科学与工程

亚麻短纤维增强硅橡胶复合材料的力学性能 周子祥,陈思(1)

新媒体广告推送方式对服装购买意愿的影响 周捷,余宇游(6)

台湾高山族传统服饰中的刺绣针法 赖文蕾,陈晓宇,李斌,陈东生(14)

● 环境工程·化学化工

面向 IGBT 模块的冷却方式及微通道冷却在 IGBT 中的应用研究

..... 吴曦蕾,李晨阳,刘滢,杨佳亮,严昱昊,庄园,韩晓红(21)

自然条件下水冷捕获量的建模与验证 孙铁柱,王祺,马杰(38)

有机氟丙烯酸树脂/SiO₂超疏水涂层的制备与性能 赵亚梅,陈丽,兰恭越,洪辰铭,丁思奇(46)

低共熔溶剂辅助酶法制备稀有人参皂苷 CK 樊雨柔,王晓军,洪一楠,潘虹,屈艳艳(54)

纳米 ZrO₂/Zn-Al-C 涂层在模拟地热水中的防腐性能

..... 余嵘,雷欢,鲁思文,田智岗,付少华,成柯瑶(62)

Rs-198 液体有机菌肥制备及其促生性能研究 朱双喜,武占省,何艳慧(71)

● 电子信息与机电工程

基于改进 UNet 模型的原棉杂质图像分割方法 许涛,麻爱松,吕欢,郭强,高琛(77)

含典型缺陷的风电塔筒环焊缝强度分析 成小乐,李玉,孙戬,张敏,王艳辉(84)

动态调整蚁群算法启发因子的 AGV 路径规划 沈丹峰,李许锋,赵刚,郝祖茂(93)

基于改进 ESO 的柔性机械臂自抗扰滑模组合控制 朱其新,孙文鑫,刘红俐,朱永红(103)

智能投影电视意象耦合造型仿生设计 高小针,张阿维,徐凤芹,董晓日(112)

● 计算机科学

基于胶囊网络的入侵检测模型 赵旭,王旭,张鑫(119)

小数据集下基于改进 QMAP 算法的 BN 参数学习 陈海洋,张静,王露楠,王晓敏(126)

期刊基本参数:CN 61-1471/N * 1986 * b * A4 * 136 * zh * P * ¥30.00 * 800 * 16 * 2023-02

责任编辑:田莉、武晖

CONTENTS

• Textile Science and Engineering

- Mechanical properties of flax short fiber reinforced silicone rubber composites ZHOU Zixiang, CHEN Si(1)
Influence of new media advertising push methods on clothing purchase intention ZHOU Jie, YU Yuyou(6)
Embroidery stitch in Taiwan Gaoshan traditional costumes ... LAI Wenlei, CHEN Xiaoyu, LI Bin, CHEN Dongsheng(14)

• Chemistry and Chemical Eng. • Environmental Eng.

- A review of the cooling methods based on IGBT module and the application of micro-channel cooling in IGBT
..... WU Xilei, LI Chenyang, LIU Ying, YANG Jialiang, YAN Yuhao, ZHUANG Yuan, HAN Xiaohong(21)
Modeling and validation of water-cooled trapping under natural conditions SUN Tiezhu, WANG Qi, MA Jie(38)
Preparation and properties of organofluoroacrylic resin/SiO₂ superhydrophobic coating
..... ZHAO Yamei, CHEN Li, LAN Gongyue, HONG Chenming, DING Siqi(46)
Preparation of rare ginsenoside CK by DES assisted enzymatic method
..... FAN Yurou, WANG Xiaojun, HONG Yinan, PAN Hong, QU Yanyan(54)
Corrosion resistance of nano ZrO₂/Zn-Al-C coating in simulated geothermal water
..... YU Rong, LEI Huan, LU Siwen, TIAN Zhigang, FU Shaohua, CHENG Keyao(62)
Preparation of Rs-198 liquid organic bacterial fertilizer and its growth-promoting performance
..... ZHU Shuangxi, WU Zhansheng, HE Yanhui(71)

• Electronic Information and Electromechanical Eng.

- A raw cotton impurity image segmentation method based on improved UNet model
..... XU Tao, MA Aisong, LYU Huan, GUO Qiang, GAO Chen(77)
Strength analysis of girth welds of wind power towers with typical defects
..... CHENG Xiaole, LI Yu, SUN Jian, ZHANG Min, WANG Yanhui(84)
Automated guided vehicle path planning by dynamically adjusting ant colony algorithm heuristic factor
..... SHEN Danfeng, LI Xufeng, ZHAO Gang, HAO Zumao(93)
Active disturbance rejection-sliding mode combined control of flexible manipulator based on improved ESO
..... ZHU Qixin, SUN Wenxin, LIU Hongli, ZHU Yonghong(103)
Image coupling styling bionic design of intelligent projection TV
..... GAO Xiaozhen, ZHANG Awei, XU Fengqin, DONG Xiaori(112)

• Computer Science

- Intrusion detection model based on capsule network ZHAO Xu, WANG Xu, ZHANG Xin(119)
BN parameter learning based on improved QMAP algorithm under small data set conditions
..... CHEN Haiyang, ZHANG Jing, WANG Lunan, HUAN Xiaomin(126)