



ISSN 1006-4710
CN 61-1294/N
CODEN XLDFD

西安理工大学学报

JOURNAL OF XI'AN UNIVERSITY OF TECHNOLOGY

2023年 3月 第39卷 第1期 Vol.39 No.1

XI'AN LIGONG DAXUE XUEBAO

西安理工大学学报

2023年3月30日

第39卷 第1期

目次

• 生态与环保

老旧小区改造对城市可持续发展的影响研究——基于双重差分法的实证检验

..... 杨 苏, 李航航 (1)

基于地理探测器的黄土高原 NPP 时空变化及驱动力研究 王江涛, 杨永崇, 杨梅焕 (12)

黄土高原水土保持功能区生态环境质量遥感监测与评价 郭力宇, 孙悦悦, 王 涛 (21)

2000—2018 年我国市域粮食产能对耕地利用综合压力的时空响应及影响因素分析

..... 殷冠羿, 刘 爽, 李广昊, 张雪鹏, 杨英杰, 白雨柔, 刘焯菲, 娄 毅, 解 帅 (32)

• 机械与精密仪器工程

基于混合润滑的结合面法向接触刚度建模 王世军, 刘 鑫, 吴敬伟, 卫娟娟, 李鹏阳 (47)

基于逻辑蕴涵算子的汽轮机故障诊断研究 夏 阳, 于 鹏 (60)

• 自动化与信息工程

基于改进多目标自适应遗传算法的机器人路径规划

..... 张 铮, 柯子鹏, 周嘉政, 钱勤建, 胡新宇 (69)

基于解析几何的无人机编队定位与调整策略 付天一, 丁根宏, 田王达, 杨雅朝 (79)

飞行器航迹角系统有限时间跟踪自适应迭代学习控制 张春丽, 田 旭, 严 雷 (89)

• 水利水电

荒漠区平原水库多目标生态调度能力与潜力分析

..... 牟琳辉, 白 涛, 加沙尔·蒙古拜, 梁宇航 (96)

长距离树状重力流系统水锤防护研究 闫天柱, 王晓敏, 李小周, 朱满林 (105)

• 土木工程

替代率对再生混凝土抗压强度影响的微观机理研究 魏 康, 李 犇, 孙 峤 (110)

关中地区传统民居气候适应性研究 张 蕾, 王思思, 范小娜, 朱轶韵 (118)

地震作用下边坡及滑坡稳定性及破坏过程分析 李兆宇, 马宗源, 魏睿真, 焦 凯 (125)

基于 XGBoost 的堆场软土渗透系数反演研究

..... 林玉祥, 林浩东, 莫品强, 褚 锋, 庄培芝 (133)

考虑地裂缝影响的连体结构地震动力响应分析 郭宏超, 郭品彰, 张博明, 蔡玉军 (141)

总编辑 王卫勋 英文审订 延 宏

期刊基本参数: CN61-1294/N * 1978 * q * A4 * 150 * zh * P * ¥10.00 * 500 * 16 * 2023-03

JOURNAL OF XI'AN UNIVERSITY OF TECHNOLOGY

Vol. 39 No. 1 2023

CONTENTS

- A study of the impact of the renovation of old communities on the sustainable development of cities: empirical test by the DID method YANG Su, LI Hanghang (1)
- Spatial and temporal variation and driving forces of NPP on the Loess Plateau based on Geodetector WANG Jiangtao, YANG Yongchong, YANG Meihuan (12)
- Dynamic monitoring and evaluation of eco-environmental quality of the soil and water conservation functional area in the Loess Plateau by remote sensing GUO Liyu, SUN Yueyue, WANG Tao (21)
- Spatiotemporal differentiation and influencing factors of China's city-level response of grain productivity to cultivated land use pressure in 2008—2018 YIN Guanyi, LIU Shuang, LI Guanghao, ZHANG Xuepeng, YANG Yingjie, BAI Yurou, LIU Yefei, LOU Yi, Xie Shuai (32)
- Modeling on normal contact stiffness of interfaces based on mixed lubrication WANG Shijun, LIU Xin, WU Jingwei, WEI Juanjuan, LI Pengyang (47)
- Research on fault diagnosis method for steam turbine based on logical implication operator XIA Yang, YU Peng (60)
- Robot path planning based on improved multi-objective adaptive genetic algorithm ZHANG Zheng, KE Zipeng, ZHOU Jiazheng, QIAN Qinjian, HU Xinyu (69)
- Research on UAV formation positioning and adjustment strategy based on analytic geometry FU Tianyi, DING Genhong, TIAN Wangda, YANG Yazhao (79)
- Finite-time tracking adaptive iterative learning control for aircraft trajectory angle system ZHANG Chunli, TIAN Xu, YAN Lei (89)
- Multi-objective ecological operation capacity and potential analysis of plain reservoir in desert area MOU Linhui, BAI Tao, MENGGUBAI Jiashaer, LIANG Yuhang (96)
- Study on water hammer protection of long distance treelike gravity flow system YAN Tianzhu, WANG Xiaomin, LI Xiaozhou, ZHU Manlin (105)
- Study of the micro mechanism for the influence of substitution rate on the compressive strength of recycled concrete WEI Kang, LI Ben, SUN Qiao (110)
- Climate adaptation of traditional dwellings in the Guanzhong region ZHANG Lei, WANG Sisi, FAN Xiaona, ZHU Yiyun (118)
- Stability and failure process analysis of slope and landslide under earthquake action LI Zhaoyu, MA Zongyuan, WEI Ruizhen, JIAO Kai (125)
- Inversion of permeability coefficient of soft soil in storage yard based on XGBoost LIN Yuxiang, LIN Haodong, MO Pinqiang, CHU Feng, ZHUANG Peizhi (133)
- Seismic dynamic response analysis of conjoined structures considering the influence of ground fissures GUO Hongchao, GUO Pinzhang, ZHANG Boming, CAI Yujun (141)

- 中国科技论文统计源期刊、中国学术期刊综合评价数据库源期刊
- 中文综合性理工农医类核心期刊、中国科技核心期刊、中国核心期刊（遴选）数据库收录期刊
- “国家科技学术期刊开放平台”收录期刊
- “中国学术期刊网络出版总库”（知网）、“万方数据”（万方）、“中文科技期刊数据库”（维普）、“学术期刊域出版平台”（超星）全文上网期刊
- 俄罗斯《文摘杂志》（AJ）、英国《科学文摘》（SA）、美国《化学文摘》（CA）收录期刊
- 全国高校科技期刊优秀编辑出版质量奖获奖期刊、中国高校优秀科技期刊、中国科技论文在线优秀期刊、陕西省优秀科技期刊、陕西省高校精品期刊

A Brief Introduction to Journal of Xi'an University of Technology

Journal of Xi'an University of Technology is a multidisciplinary academic journal of engineering, and it is designated as one of the key periodicals of Chinese Scientific and Technical Journal by Institute of Scientific and Technical Information of China. Its main publications cover a wide range of academic research papers in different disciplines including mechanical engineering, material engineering, electrical engineering, electronic engineering, hydraulic engineering, civil engineering, environment engineering, precision instrument engineering, computer engineering, printing and packaging engineering, engineering mechanics, applied mathematics, applied physics, applied chemistry.

Address of correspondence: Editorial Department, Journal of Xi'an University of Technology, No.5 South Jinhua Road, Xi'an 710048, China. E-mail: xb@mail.xaut.edu.cn Fax: +86-29-82312403

西安理工大学学报
XI'AN LIGONG DAXUE XUEBAO
(季刊, 1978年创刊)
2023年3月 第39卷 第1期

JOURNAL OF XI'AN UNIVERSITY
OF TECHNOLOGY
(Quarterly, Started in 1978)
Volume 39 Number 1 Mar. 2023

主管单位 陕西省教育厅
主办单位 西安理工大学
主 编 刘宏昭
副 主 编 李宁 施卫
编辑出版 《西安理工大学学报》编辑部
地 址 西安市金花南路5号, 710048
电子信箱 xb@mail.xaut.edu.cn
网 址 <https://xuebao.xaut.edu.cn>
电 话 029-82312403
传 真 029-82312403
印 刷 西安新汇印务有限公司
国内发行 《西安理工大学学报》编辑部
国外发行 中国出版对外贸易总公司（北京 100011）

Administrated by Education Department of Shaanxi Provincial Government
Sponsored by Xi'an University of Technology
Editor-in-Chief LIU Hongzhao
Deputy Editors-in-Chief LI Ning, SHI Wei
Edited & Published by Editorial Department of Journal of Xi'an University of Technology
Address No.5 South Jinhua Road, Xi'an 710048, China
E-mail xb@mail.xaut.edu.cn
Website <https://xuebao.xaut.edu.cn>
Tel +86-29-82312403
Fax +86-29-82312403
Overseas Distributed by China National Publishing Industry Trading Corporation
P.O.Box 782, Beijing 100011, China

中国标准连续出版物号 $\frac{\text{ISSN } 1006-4710}{\text{CN } 61-1294/\text{N}}$

国内定价: 10.00元

