

目 次

土 木 工 程

工字形 CFRP - 高强圆钢管高强混凝土中长柱偏心受压性能研究 ..... 李帼昌,王宁波,李 晓(961)

多尺度点云数据的空间一致融合法在钢桁梁虚拟拼装中的应用 ..... 梁 栋,贾铎丰,高 祺,等(973)

方中空夹层钢管混凝土叠合构件纯扭性能研究 ..... 任庆新,蔡雨晨,王庆贺(984)

预制混凝土夹心保温墙板连接件抗扭性能试验 ..... 孟宪宏,宋正泉,费小爽,等(994)

板式橡胶支座梁式桥准隔震体系参数组合研究 ..... 田石柱,韩 钰,刘晨光(1001)

集成装配式盒子建筑连接节点抗震性能研究 ..... 许 峰,张增辉,许 伟,等(1012)

基于桩侧摩阻力退化静压桩沉桩效应室内试验 ..... 王永洪,金珈民,袁继奎,等(1021)

蜂窝梁钢框架中柱节点抗震性能与恢复力模型研究 ..... 董 焯,贾连光,王春刚,等(1029)

拱部脱空单线铁路隧道衬砌裂损机理研究 ..... 易 杰,赵乙丁,卞 雯,等(1038)

建 筑 技 术

高地温铁路隧道温度场影响因素分析 ..... 冯国会,李兆星,孙佳琳,等(1047)

带分支结构平板脉动热管的传热性能研究 .....	邹惠芬,王宏伟,刘超翔(1054)
方案设计阶段的严寒地区近零碳小型办公建筑影响因子研究 .....	李辰琦,任航(1060)
新型活性矿物海水海砂珊瑚混凝土制备与性能研究 .....	王超,孙丽,沙鑫,等(1068)

## 城市 规 划

寒地城市河岸带冬季留鸟群落与多尺度景观格局的关系 .....	董玉宽,吴承润,王秋实,等(1079)
沈阳市建成区自然水文循环过程的多元协整分析 .....	王曦,初亚奇,曹晓妍,等(1089)
黔东南侗族鼓楼空间分布特征及影响因素 .....	陈波,黄镇,李松林,等(1099)
基于空间测度和空间品质的工业历史文化街区绿视率研究 .....	孙冬,周福健,林俊杰,等(1108)

## 机 械 工 程

基于改进鲸鱼算法的建筑构件生产线主计划编制方法 .....	韩忠华,富若涵,卢铁林(1116)
基于改进蚁群算法的机器人路径规划研究 .....	罗继曼,刘丰源(1126)

## 环 境 工 程

清河流域分水期污染物总量减排绩效评估 .....	唐玉兰,何亚婷,孙杨,等(1137)
基于 SWAT 模型的海城河总磷关键源识别管控研究 .....	晁雷,鲜龙宇,李亚峰(1144)

《沈阳建筑大学学报(自然科学版)》2024 年总目次

卷终

# JOURNAL OF SHENYANG JIANZHU UNIVERSITY( NATURAL SCIENCE)

Volume 40 Number 6 ( Sum 213)

Nov. 2024

## CONTENTS

### Civil Engineering

- Mechanical Behavior of I-shaped CFRP Profiles-high-strength Concrete-filled High-strength Circular Steel Tube  
Middle-Long Columns under Eccentric Loading ..... *LI Guochang, WANG Ningbo, LI Xiao*(961)
- Application of Spatially Consistent Fusion Method for Virtual Assembly of Steel Joist Girders with Multiscale Point  
Cloud Data ..... *LIANG Dong, JIA Zhufeng, GAO Qi, et al*(973)
- Behavior of Square Concrete-encased CFDST Members under Pure Torsion .....  
..... *REN Qingxin, CAI Yuchen, WANG Qinghe*(984)
- Experimental Study on Torsional Performance of Shear Connectors in Precast Concrete Sandwich Panel .....  
..... *MENG Xianhong, SONG Zhengquan, FEI Xiaoshuang, et al*(994)
- Study on Parameter Combination of Quasi-Isolation System of Beam Bridge with Laminated Rubber Bearing ...  
..... *TIAN Shizhu, HAN Tang, LIU Chenguang*( 1001)
- Research on Seismic Performance of Connections in Integrated Assembled Box Buildings .....  
..... *XU Feng, ZHANG Zenghui, XU Wei, et al*( 1012)
- Experimental Study of Pile Jacking Effect Based on Pile Side Friction Resistance Degradation .....  
..... *WANG Yonghong, JIN Jiamin, YUAN Jikui, et al*(1021)
- Research on Seismic Performance and Restoring Force Model of Mid-column Joints in Steel Frame with Cellular  
Beam ..... *DONG Yang, JIA Lianguang, WANG Chungang, et al*(1029)
- Research on Mechanism of Lining Cracking in Single-track Railway Tunnels Influenced by Cavity within Arches  
Region ..... *YI Jie, ZHAO Yiding, BIAN Wen, et al*(1038)

### Building Technology

- Analysis of Influencing Factors on the Temperature Field in High Geothermal Railway Tunnel .....  
..... *FENG Guohui, LI Zhaoxing, SUN Jialin, et al*(1047)

Study on Heat Transfer Performance of Flat Plate Pulsating Heat Pipe with Extra Branches .....  
..... ZOU Hui fen, WANG Hongwei, LIU Chaoxiang( 1054)

Research on the Impact Factors of Near Zero Carbon Small Office Buildings in Cold Regions during the Scheme  
Design Phase ..... LI Chenqi, REN Hang( 1060)

Preparation and Performance Study of Novel Mineral Sea Rock Concrete .....  
..... WANG Chao, SUN Li, SHA Xin, et al( 1068)

**Urban Planning**

Relationship between Winter Resident Bird Community and Multi-scale Landscape Patterns in Cold Urban Riparian  
Zone ..... DONG Yukuan, WU Chengrun, WANG Qiushi, et al( 1079)

Natural Hydrological Cycle Process of Shenyang Built-up Area Multivariate Co-integration Analysis .....  
..... WANG Xi, CHU Yaqi, CAO Xiaoyan, et al( 1089)

Analysis of Spatial Distribution Characteristics and Influencing Factors of Drum Tower of Dong Nationality in  
Southeast Guizhou ..... CHEN Bo, HUANG Zhen, LI Songlin, et al( 1099)

Research on Green View Index of Industrial Historical and Cultural Blocks Based on Spatial Metrics and Street  
Space Quality ..... SUN Dong, ZHOU Fujian, LIN Junjie, et al( 1108)

**Mechanical Engineering**

Master Planning Method of Building Component Production Line Based on Improved Whale Algorithm .....  
..... HAN Zhonghua, FU Ruohan, LU Tielin( 1116)

Research on Path Planning Based on Improved Ant Colony Algorithm ..... LUO Jiman, LIU Fengyuan( 1126)

**Environmental Engineering**

Performance Evaluation of Total Water Pollutant Emissions Reduction in Qinghe River during Different Water  
Periods ..... TANG Yulan, HE Yating, SUN Yang, et al( 1137)

Identification and Control of Key Sources of Total Phosphorus in Haicheng River Basin Based on SWAT Model  
..... CHAO Lei, XIAN Longyu, LI Yafeng( 1144)