

ISSN 1006-8023



(2020 年 07 月)

目 次

· 森林资源建设与保护 ·

大兴安岭北部针叶林土壤团聚体酶活性研究 朱家琪, 满秀玲, 张嶝, 刘思琪(1)

火烧迹地在不同恢复方式下土壤氮素含量研究 李金亨, 春雪, 辛颖, 赵雨森(12)

黑土区坡地环境因子对紫斑牡丹生长和产量的影响 张瑜, 刘肃, 徐子棋, 杨献坤(21)

抚育间伐对白桦天然次生林枯落物与土壤持水特性的影响 刘忠玲, 姚颖, 刘建明, 温爱亭, 吕跃东(29)

基于 Web AppBuilder 的县级森林资源管理系统构建 张京, 徐雁南(38)

· 森工技术与装备 ·

灭火空气炮的仿真与尺寸参数分析 李春雷, 储江伟, 高伟健, 解清波(45)

基于深度学习的森林消防机器人路径规划 孙上杰, 姜树海, 崔嵩鹤, 康玥, 陈语唐(51)

基于 ANSYS 水稻覆膜直播机机架的有限元分析 丁建梅, 胡永冉, 丁建华, 徐海峰, 袁洪栋(58)

响应面优化塔拉籽油超声提取工艺研究 刘运伟, 李占君(64)

基于粒子群算法的智能车辆多目标跟踪 孙柱, 赵强, 张娜, 朱宝全, 王娜(70)

· 道路与交通 ·

钢桥面 UTAC - UHPC 新型铺装结构力学性能分析 薛志强, 万昀聪, 王宏畅(76)

盾构开仓检修更换刀具施工关键技术研究 常润安, 胡俊(85)

基于 BL 模型的出租车需求运价弹性研究 笪媛, 肖为周, 秦菲菲(94)

依据简化的有限元模型分析软基固结变形过程 刘克伦, 刘红军, 成华雄(101)

基于视认特性的指路标志版面不同区域视认效果研究 裴玉龙, 张馨予(109)

公路毗邻隧道群路段驾驶人视觉稳定性评价 周智文, 马健霄, 谭婷(116)

CONTENTS

· Forest Resources Development and Conservation ·

- Study on the Enzyme Activity of Soil Aggregates in Coniferous Forests in the North of Daxing'an Mountains
..... ZHU Jiaqi, MAN Xiuling, ZHANG Di, LIU Siqi(1)
- Research on Characteristics of Soil Nitrogen Content of Burned Area after Different Restorations
..... LI Jinxiang, CHUN Xue, XIN Ying, ZHAO Yusen(12)
- Effect of the Environmental Factors on the Growth and Yield Status of the *Paeonia rockii* in the Black Soil Area
..... ZHANG Yu, LIU Su, XU Ziqi, YANG Xiankun(21)
- Effects of Thinning on Water – holding Characteristics of Litter and Soil in *Betula platyphylla* Natural Secondary Forest Stand
..... LIU Zhongling, YAO Ying, LIU Jianming, WEN Aiting, LYU Yuedong(29)
- Construction of County Forest Resource Management System Based on Web AppBuilder ZHANG Jing, XU Yannan(38)

· Forest Engineering Technology and Equipment ·

- Simulation and Dimensional Parameter Optimization of Fire – fighting Air Cannon
..... LI Chunlei, CHU Jiangwei, GAO Weijian, XIE Qingbo(45)
- Path Planning of Forest Fire – fighting Robots Based on Deep Learning
..... SUN Shangjie, JIANG Shuhai, CUI Songhe, KANG Yue, CHEN Yutang(51)
- Finite Element Analysis of Rice Film Mulching Direct Seeding Machine Frame Based on ANSYS
..... DING Jianmei, HU Yongran, DING Jianhua, XU Haifeng, YUAN Hongdong(58)
- Optimization of Ultrasonic Extraction of Tara Seed Oil by Response Surface Methodology LIU Yunwei, LI Zhanjun(64)
- Intelligent Vehicle Multi – objective Tracking Based on Particle Swarm Algorithm
..... SUN Zhu, ZHAO Qiang, ZHANG Na, ZHU Baoquan, WANG Na(70)

· Road and Transportation ·

- Mechanics Property Analysis for A New Steel Bridge Deck Pavement with UTAC – UHPC
..... XUE Zhiqiang, WAN Yuncong, WANG Hongchang(76)
- Research on the Key Technology of Cutting Tool Construction of Shield Tunneling CHANG Runan, HU Jun(85)
- Research on Taxi Demand Price Elasticity Based on BL Model DA Yuan, XIAO Weizhou, QIN Feifei(94)
- Analysis of Consolidation Deformation Process of Soft Foundation Based on Simplified Finite Element Model
..... LIU Kelun, LIU Hongjun, CHENG Huaxiong(101)
- Research on Visual Effect of Different Areas of Guide Sign Layout Based on Characteristics of Recognition
..... PEI Yulong, ZHANG Xinyu(109)
- Evaluation of Drivers' Visual Stability in Highway Adjacent Tunnel Group Sections
..... ZHOU Zhiwen, MA Jianxiao, TAN Ting(116)