

CSCD 来源期刊  
中国高校优秀科技期刊

ISSN 1000-2006  
CODEN NLDBZ

# 南京林业大学学报

## 自然 科 学 版

JOURNAL OF NANJING FORESTRY UNIVERSITY  
NATURAL SCIENCES EDITION

2019

3

第 43 卷 Vol.43



## 目 次

### 研究论文

- 抗松材线虫病马尾松体胚发生与植株再生条件的优化 ..... 陈婷婷, 叶建仁, 吴小芹, 沈李元, 朱丽华 (1)
- 不同基质条件下丛枝菌根真菌对桑树生长的影响 ..... 黄小辉, 陈道静, 冯大兰 (9)
- 基于全基因组序列的核桃细菌性黑斑病菌分泌蛋白的预测及特征分析 ..... 祝友朋, 刘宏莉, 韩长志 (17)
- 山核桃透翅蛾幼虫空间分布型及抽样技术 ..... 刘凯舟, 曹霞, 巨云为, 翟敏, 严晓茹, 王笑石, 周际丰 (23)
- NaCl 胁迫下红砂种子萌动期差异表达基因的转录组分析 ..... 刘晓威, 杨秀艳, 武海雯, 刘肖艳, 朱建峰, 张华新 (28)
- 凤丹繁育系统与传粉生物学研究 ..... 罗长维, 陈友, 张涛 (37)
- 柳杉花粉母细胞减数分裂进程及异常行为 ..... 赵慧, 莫家兴, 华慧, 郭臻昊, 徐进 (45)
- 茂兰喀斯特森林小果润楠蒸腾特征及影响因素 ..... 李成龙, 刘延惠, 丁访军, 舒德远, 崔迎春, 赵文君, 侯贻菊, 吴鹏 (51)
- 东南景天 *SaWRKY7* 基因对镉胁迫的响应研究 ..... 王影, 邱文敏, 李鹤, 贺雪莲, 刘明英, 韩小娇, 曲同宝, 卓仁英 (59)
- 三峡库区马尾松次生林林分结构特征分析 ..... 胡文杰, 崔鸿侠, 王晓荣, 雷静品, 潘磊, 唐万鹏, 庞宏东, 袁秀锦 (67)
- 屋顶绿化单体基质材料对降雨径流氮磷特征的影响 ..... 席梦涵, 郑思俊, 张青萍, 张浪 (77)
- 添加无机氮对山西太岳山油松林土壤氮素及温室气体通量的影响 ..... 于辉, 陈燕, 张欢, 周志勇 (85)
- 基于遥感影像的福建省长汀县级植被覆盖变化监测及分析 ..... 胡鸿, 许延丽, 鞠洪波, 孙志超 (92)
- 基于 HSV 阈值法的无人机影像变色松树识别 ..... 陶欢, 李存军, 谢春春, 周静平, 淮贺举, 蒋丽雅, 李凤涛 (99)
- 杭州湾滨海湿地生态安全动态变化及趋势预测 ..... 李楠, 李龙伟, 陆灯盛, 张银龙, 吴明 (107)
- 基于 MCR 模型的现代城市绿地海绵体适宜性分析 ..... 汤鹏, 王浩 (116)
- 中国古典园林水声景的空间营造手法探析 ..... 谢辉, 程语, 葛煜喆, 毛华松 (123)
- 木材加工产业集聚、共聚与劳动生产率效应 ..... 夏永红, 沈文星 (131)
- 白马鸡繁殖期等级行为和社群结构的社会网络分析 ..... 石树敏, 王楠, 李扎西姐 (137)
- 鹅掌楸属植物叶片两侧对称性测量的泰勒幂法则 ..... 时培建, 刘梦蔚 (145)
- 专题报道**
- 蓝莓果实多酚提取物的抗炎活性研究 ..... 姚蓓, 赵慧芳, 吴文龙, 李维林 (152)
- 三个高丛蓝莓品种在南京地区的田间生长表现 ..... 杨海燕, 董珊珊, 阎连飞, 黄正金, 吴文龙, 李维林 (157)
- 蓝莓“寨选”品系在南京地区的生长与结实表现 ..... 赵慧芳, 阎连飞, 姚蓓, 吴文龙, 李维林 (163)
- 蓝莓根系对土壤锰胁迫的生理响应 ..... 董珊珊, 李宁冉, 杨海燕, 吴文龙, 阎连飞, 李维林 (169)
- 综合述评**
- 施用沼液对农林土壤生态系统影响的研究进展 ..... 薛斌, 徐涵涓, 阮宏华 (175)
- 研究简报**
- 不同产地银杏黄酮及相关活性物质含量变异分析 ..... 吴雅琼, 国靖, 周琦, 胥猛, 汪贵斌, 徐立安 (183)
- 生物遮阴对银杏幼苗次生代谢的影响 ..... 钱龙梁, 李佳佳, 曹福亮, 汪贵斌 (189)
- 平安竹叶片缩小的细胞学观察 ..... 魏强, 郭琳, 陈铭, 夏苏娟, 丁雨龙 (195)
- 灌木柳对间歇性河流湿地污水中氮和磷的清除作用 ..... 王天乐, 孔进, 刘茂松 (200)
- 《南京林业大学学报(自然科学版)》第九届编辑委员会 ..... (封二)
- 《南京林业大学学报(自然科学版)》征稿简则 ..... (封三)

## Contents

Somatic embryogenesis and plantlet regeneration of disease-resistant <i>Pinus massoniana</i> Lamb.	CHEN Tingting, YE Jianren, WU Xiaoqin, SHEN Liyuan, ZHU Lihua(1)
The effects of arbuscular mycorrhiza fungi on the growth of mulberry in different nursery substrates	..... HUANG Xiaohui, CHEN Daojing, FENG Dalan(9)
Prediction of secretory protein in walnut bacterial black spot pathogen	..... ZHU Youpeng, LIU Hongli, HAN Changzhi(17)
Spatial distribution pattern and sampling technique of <i>Sphecodoptera sheni</i> larvae on <i>Carya illinoiensis</i>	..... LIU Kaizhou, CAO Xia, JU Yunwei, ZHAI Min, YAN Xiaoru, WANG Xiaoshi, ZHOU Jifeng(23)
Transcriptome analysis of differentially expressed genes in <i>Reaumuria soongorica</i> seeds germination under NaCl stress	..... LIU Xiaowei, YANG Xiuyan, WU Haiwen, LIU Xiaoyan, ZHU Jianfeng, ZHANG Huixin(28)
Breeding system and pollination biology of <i>Paeonia ostii</i> T. Hong & J. X. Zhang	..... LUO Changwei, CHEN You, ZHANG Tao(37)
Meiosis process and abnormal behavior of pollen mother cells in <i>Cryptomeria fortunei</i>	..... ZHAO Hui, MO Jiaxing, HUA Hui, GUO Zhenhao, XU Jin(45)
Transpiration characteristics and influencing factors of the dominant species of <i>Machilus microcarpa</i> in Maolan Karst forest	..... LI Chenglong, LIU Yanhui, DING Fangjun, SHU Deyuan, CUI Yingchun, ZHAO Wenjun, HOU Yiju, WU Peng(51)
Research on the response of <i>SaWRKY7</i> gene to cadmium stress in <i>Sedum alfredii</i> Hance	..... WANG Ying, QIU Wenmin, LI He, HE Xuelian, LIU Mingying, HAN Xiaojiao, QU Tongbao, ZHUO Renying(59)
Structure characteristics of <i>Pinus massoniana</i> secondary forest in the Three Gorges Reservoir area	..... HU Wenjie, CUI Hongxia, WANG Xiaorong, LEI Jingpin, PAN Lei, TANG Wanpeng, PANG Hongdong, YUAN Xiujin(67)
Influence of roof greening substrate materials on nitrogen and phosphorus characteristics in rainfall runoff	..... XI Menghan, ZHENG Sijun, ZHANG Qingping, ZHANG Lang(77)
The effect of inorganic nitrogen addition on soil nitrogen and greenhouse gas flux for the <i>Pinus tabulaeformis</i> forest in Taiyue Mountain, Shanxi Province	..... YU Hui, CHEN Yan, ZHANG Huan, ZHOU Zhiyong(85)
Monitoring and analysis of county-level vegetation cover change in Changting, Fujian based on remote sensing images	..... HU Hong, XU Yanli, JU Hongbo, SUN Zhichao(92)
Recognition of red-attack pine trees from UAV imagery based on the HSV threshold method	..... TAO Huan, LI Cunjun, XIE Chunchun, ZHOU Jingping, HUAI Heju, JIANG Liya, LI Fengtao(99)
Ecological security dynamics and trend forecast of coastal wetlands in Hangzhou Bay	..... LI Nan, LI Longwei, LU Dengsheng, ZHANG Yinlong, WU Ming(107)
Analysis on the suitability of green sponge space in modern city based on MCR model	..... TANG Peng, WANG Hao(116)
The spatial construction of water soundscape in Chinese classical gardens	..... XIE Hui, CHENG Yu, GE Yuzhe, MAO Huasong(123)
Agglomeration, coagglomeration and labor productivity effects of wood processing industry	..... XIA Yonghong, SHEN Wenxing(131)
Social network analysis of dominance behavior and social structure of <i>Crossoptilon crossoptilon</i> in breeding season	..... SHI Shumin, WANG Nan, LI Zhaxijie(137)
Taylor's power law of the leaf bilateral symmetry measure of <i>Liriodendron</i> trees	..... SHI Peijian, LIU Mengdi(145)
Anti-inflammatory activity of polyphenol extracts from blueberry fruit	..... YAO Bei, ZHAO Huifang, WU Wenlong, LI Weilin(152)
An observation on three highbush blueberry cultivars cultivated in Nanjing	..... YANG Haiyan, DONG Shanshan, LÜ Lianfei, HUANG Zhengjin, WU Wenlong, LI Weilin (157)
The growth and fruiting characteristics of 'Zhaixuan' blueberry strains in Nanjing	..... ZHAO Huifang, LÜ Lianfei, YAO Bei, WU Wenlong, LI Weilin(163)
Physiological response of blueberry roots to Mn <sup>2+</sup> stress in soil	..... DONG Shanshan, LI Ningran, YANG Haiyan, WU Wenlong, LÜ Lianfei, LI Weilin(169)
A review on the effects of biogas slurry on agroforestry soil ecosystems	..... XUE Bin, XU Hanmei, RUAN Honghua(175)
Variation analysis of flavonoids and related active substances content in ginkgo leaves from different regions	..... WU Yaqiong, GUO Jing, ZHOU Qi, XU Meng, WANG Guibin, XU Li'an(183)
Effect of biological shading on secondary metabolism of ginkgo seedlings	..... QIAN Longliang, LI Jiajia, CAO Fuliang, WANG Guibin(189)
Cytological study on the size reduction of leaf blade of <i>Pseudosasa japonica</i> var. <i>tsusumiana</i>	..... WEI Qiang, GUO Lin, CHEN Ming, XIA Sujuan, DING Yulong(195)
Effects of <i>Salix saposchnikovii</i> on removal efficiency of nitrogen and phosphorus in sewage intermittently running through wetland surface	..... WANG Tianle, KONG Jin, LIU Maosong(200) 万方数据