

中国自然科学核心期刊  
中国高校精品科技期刊

ISSN1000-2006  
CODEN NLDXBZ

# 南京林业大学学报

JOURNAL OF NANJING FORESTRY UNIVERSITY

自然科学版

NATURAL SCIENCES EDITION

2012

6

第36卷 Vol.36



目次

特稿

森林植被的显花、传粉与繁育系统 ..... 方炎明(1)

研究论文

马尾松半同胞家系纤维形态遗传变异及纸浆材优良家系选择 ..... 谭健晖,冯源恒,贾婕,杨章旗(8)

杂种鹅掌楸体胚苗根尖染色体核型分析 ..... 刘光欣,陈金慧,孙杰,愈天驰,施季森(13)

盐胁迫下水杨酸对南林895杨组培苗抗氧化系统的影响  
..... 陈颖,徐彩平,汪南阳,胡菲,王光萍,黄敏仁(17)

干旱胁迫下接种菌根真菌对滇柏和楸树幼苗根系的影响 ..... 王如岩,于水强,张金池,周垂帆,陈莉莎(23)

保水剂对白蜡树容器苗生长及生理特性的影响 ..... 刘方春,马海林,马丙尧,杜振宇,段春华(28)

不同缺素处理对红厚壳幼苗生长的影响 ..... 贾瑞丰,尹光天,杨锦昌,李荣生,邹文涛(33)

采煤塌陷对百里杜鹃林区植物群落特征的影响 ..... 谢元贵,龙秀琴,刘济明,曾月(37)

凤阳山保护区木荷种群生态位研究 ..... 顾叶,鲁小珍(42)

设施栽培对杨梅生长发育和品质的影响 ..... 黄海静,符国槐,杨再强,张静,金志凤(47)

不同纬度引种地马来甜龙竹(*Dendrocalamus asper*)光合特性的比较  
..... 杜旭华,丁兴萃,陈岩,吴寿国,邹跃国,巫广文(53)

黔中地区皂荚生长与不同岩性土壤酶活性的关系 ..... 胡国珠,杨馥宁,谢双喜(58)

1991—2006年无锡市土地利用变化动态度及转换参数分析 ..... 侍昊,薛建辉,马婉丽(63)

长白落叶松人工林密度表的编制及应用 ..... 马炜,孙玉军(69)

扎龙湿地丹顶鹤繁殖生境变化驱动因素分析 ..... 李明阳,张称意,吴军,徐婷(76)

农药胁迫对杨树多酚氧化酶的影响 ..... 汤方,赵文亮,左胜涵,毛霞,张立松(81)

云芝菌株胞外多糖的制备及纯化 ..... 孙静,尤毅,蒋发现,杨锐,蔡俊立,赵林果(85)

耐热 $\alpha$ -葡萄糖苷酶的诱导条件及重组酶的固定化 ..... 裴建军,吕香香,解静聪,赵林果(90)

烯丙基异冰片基醚绿色合成研究 ..... 王士康,徐徐,兰蓝,樊媛媛,王石发(95)

超声辅助提取青钱柳叶总三萜化合物的工艺优化 ..... 邓波,尚旭岚,方升佐,钱晨云(101)

基于FLUENT的压力缝筛波纹形状的改进机制 ..... 陈永利,张健,张辉(105)

弹簧床芯对床垫性能及卧姿舒适性的影响  
..... 陈玉霞,申黎明,郭勇,赵静,方菲,周毅,卢涛,张先春(110)

仿生甲虫六足机器人结构设计及步态分析 ..... 姜树海,孙培,唐晶晶,陈波(115)

城市道路路面沉积物重金属污染程度评价 ..... 薛红琴,赵尘,孔思达(121)

公路施工网络计划多目标遗传优化 ..... 廖小辉,黄新,陈磊(125)

综述

位点特异性DNA内切酶在植物基因打靶中的应用 ..... 程强,胥猛,黄敏仁(130)

环介导等温基因扩增技术在林木病害检测中的应用展望 ..... 邱秀文,叶建仁,张林平(135)

研究简报

黄藤材薄壁细胞木质素分布的可见光谱分析  
..... 汪佑宏,刘杏娥,江泽慧,费本华,周旭,张令峰,高龙芽(140)

马尾松、黄山松及其杂种域球果形态和种子性状变异 ..... 渠纪腾,阎毛毛,戴晓港,李淑娟(143)

4种地被竹的蒸腾特性及蒸发速率的比较 ..... 刘国华,王福升,郭婷婷,林树燕,丁雨龙,赵传龙(147)

板式家具塑料封边条剥离方法的对比研究 ..... 文超,吴智慧,张继雷(151)

马尔萨斯模型内部结构研究 ..... 周春国,余光辉(154)

江西木犀科植物新记录 ..... 季春峰(157)

简讯

南京林业大学环境科学与工程学科简介 ..... (封二)(封三)

简讯3则 ..... (41)(129)(158)

《南京林业大学学报(自然科学版)》征稿简则 ..... (159)

致谢 ..... (160)

《南京林业大学学报(自然科学版)》2012年论文题录(作者)索引 ..... (161)

本期执编 李燕文 英文审校 尹佟明 王石发

[期刊基本参数] CN 32-1161/S\*1958\*b\*A4\*168\*zh\*P\*¥20.00\*1000\*33\*2012-11

卷 终

## Contents

- Florescence, pollination and breeding systems of forest vegetation ..... FANG Yanming(1)
- Study on the genetic variation of wood fiber morphology in a half-sib mason pine family and the selection of fine paper pulp making family ..... TAN Jianhui, FENG Yuanheng, JIA Jie, YANG Zhangqi(8)
- Karyotype analysis of the *Liriodendron chinense* × *L. tulipifera* root tip chromosome ..... LIU Guangxin, CHEN Jinhui, SUN Jie, YU Tianchi, SHI Jisen(13)
- Effects of salicylic acid on oxidation resistance of 'Nanlin 895' poplar plantlets *in vitro* under salt stress ..... CHEN Ying, XU Caiping, WANG Nanyang, HU Fei, WANG Guangping, HUANG Minren(17)
- Effects of mycorrhizal fungus inoculation on the root of *Cupressus duclouxiana* and *Catalpa bungei* seedlings under drought stress ..... WANG Ruyan, YU Shuiqiang, ZHANG Jinchi, ZHOU Chuifan, CHEN Lisha(23)
- Effect of super absorbent and fertilizer on growth and physiological characteristics of *Fraxinus chinensis* Roxb container seedlings ..... LIU Fangchun, MA Hailin, MA Bingyao, DU Zhenyu, DUAN Chunhua(28)
- Effects of different nutrient deficiency on *Calophyllum inophyllum* L. seedlings ..... JIA Ruifeng, YIN Guangtian, YANG Jinchang, LI Rongsheng, ZOU Wentao(33)
- Influences of coal mining collapse on characteristics of plant community of Hundred-mile Azalea Area of Guizhou ..... XIE Yuangui, LONG Xiuqin, LIU Jiming, ZENG Yue(37)
- Studies on the niche of *Schima superba* Gardn in Fengyangshan Nature Reserve ..... GU Ye, LU Xiaozhen(42)
- Effect of protected cultivation to the development and quality of *Myrica rubra* ..... HUANG Haijing, FU Guohuai, YANG Zaiqiang, ZHANG Jing, JIN Zhifeng(47)
- Comparison of the photosynthetic characteristics of *Dendrocalamus asper* introduced in different latitude regions ..... DU Xuhua, DING Xingcui, CHEN Yan, WU Shouguo, ZOU Yueguo, WU Guangwen(53)
- Relationship between soil enzymes activity and *Gleditsia sinensis* Lam. growth in different lithological soils in central Guizhou province ..... HU Guozhu, YANG Funing, XIE Shuangxi(58)
- Analysis on dynamic degree and transition parameters of land-use type changes in Wuxi city, Jiangsu during 1991 – 2006 ..... SHI Hao, XUE Jianhui, MA Wanli(63)
- Compilation and application of reasonable density table for plantations of *Larix olgensis* Herry. .... MA Wei, SUN Yujun(69)
- Driver analysis of breeding habitat change of red-crowned crane (*Grus japonensis*) in Zhalong wetland ..... LI Mingyang, ZHANG Chengyi, WU Jun, XU Ting(76)
- Effect of pesticide stress on polyphenol oxidase in poplars ..... TANG Fang, ZHAO Wenliang, ZUO Shenghan, MAO Xia, ZHANG Lisong(81)
- Preparation and purification of extracellular polysaccharide from *Coriolus versicolor* ..... SUN Jing, YOU Yi, JIANG Faxian, YANG Rui, CAI Junli, ZHAO Linguo(85)
- Inducement condition and immobilization of thermostable  $\alpha$ -glucosidase produced by *Escherichia coli* ..... PEI Jianjun, LÜ Xiangxiang, XIE Jingcong, ZHAO Linguo(90)
- Green synthesis of allyl isobornyl ether ..... WANG Shikang, XU Xu, LAN Lan, FAN Yuanyuan, WANG Shifa(95)
- Optimization of ultrasonic-assisted extraction of total triterpenoid compounds from *Cyclocarya paliurus* leaves ..... DENG Bo, SHANG Xulan, FANG Shengzuo, QIAN Chenyun(101)
- Improving mechanism of pressure screen contoured slot shape based on FLUENT ..... CHEN Yongli, ZHANG Jian, ZHANG Hui(105)
- Effect of mattress cores on the mattress characteristics and lying comfort ..... CHEN Yuxia, SHEN Liming, GUO Yong, ZHAO Jing, FANG Fei, ZHOU Yi, LU Tao, ZHANG Xianchun(110)
- Structural design and gait analysis of hexapod bionic robot ..... JIANG Shuhai, SUN Pei, TANG Jingjing, CHEN Bo(115)
- Evaluation of heavy metals pollution in urban road deposited sediments ..... XUE Hongqin, ZHAO Chen, KONG Sida(121)
- Multi-objective genetic optimization of highway construction network plan ..... LIAO Xiaohui, HUANG Xin, CHEN Lei(125)
- The application of site-specific DNA endonucleases in plant gene targeting ..... CHENG Qiang, XU Meng, HUANG Minren(130)
- The application prospect of loop-mediated isothermal amplification method in forest disease detection ..... QIU Xiuwen, YE Jianren, ZHANG Linping(135)
- Analysis of the visible spectrum of lignin distribution in the parenchyma *Daemonorops margaritae* ..... WANG Youhong, LIU Xing'e, JIANG Zehui, FEI Benhua, ZHOU Xu, ZHANG Lingfeng, GAO Longya(140)
- Variation in cone morphology and seed characteristics for *Pinus massoniana* Lamb., *P. taiwanensis* Hayata, and their hybrid zone ..... QU Jiteng, YAN Maomao, DAI Xiaogang, LI Shuxian(143)
- Comparison of the transpiration parameters and evaporation rates of four dwarf bamboos with each other ..... LIU Guohua, WANG Fusheng, GUO Tingting, LIN Shuyan, DING Yulong, ZHAO Chuanlong(147)
- Comparison analysis of the peeling method for plastic edge band on panel furniture ..... WEN Chao, WU Zhihui, ZHANG Jilei(151)
- Study on bifurcation theory of Malthusian model ..... ZHOU Chunguo, SHE Guanghui(154)
- New records of Oleaceae plants distributed in Jiangxi province ..... JI Chunfeng(157)

End of Vol. 36