

目次

生态学

洞庭湖西岸区防护林土壤与植物微量元素含量特征/柏方敏,田大伦,方 晰,等 1

湖南会同次生阔叶林优势树种的种内种间竞争研究/刘韶辉,项文化,赵丽娟,等 10

长沙城市森林土壤理化性质及碳贮量特征/高述超,田大伦,闫文德,等 16

运营期高速公路沿线湿地水环境的时空变化/祝遵凌,胡海波,曹 剑,等 23

不同自然光环境下土庄绣线菊的生理生态响应/冯 强,刘 宁,王 瞰 27

南岳衡山甜槠林群落分析/李传霞 34

林 学

湖北省杨树优良无性系多点造林对比试验/杨春惠,吴育中,胡勇华,等 38

林分密度及施肥对马尾松林产脂量的影响/安 宁,丁贵杰,湛红辉 46

4 个油茶优良无性系花器特征及花粉萌发率/廖 婷,袁德义,袁 军,等 51

植物学

湖南衡山国家级自然保护区藤本植物的基本特征/颜立红,蒋利媛,向光锋,等 55

生物科学与技术

基于 PCA 和 BP 神经网络的 O-糖基化位点的预测和模式分析/王楚正,谭晓风,陈延伟,等 61

油茶 FatB 基因全长 cDNA 的分离克隆及序列分析/郭静怡,谭晓风,王威浩,等 66

食品科学

臭氧与高氧处理对采后草莓品质的影响/龚吉军,唐 静,李振华,等 76

生态旅游

生态旅游发展中利益相关者格局及其角色的定位分析/旷雄杰 81

机械工程

我国南方道路除冰机振动滚筒的研究/刘长生 85

物流工程

基于混合整数规划模型的农产品物流网络优化/庞 燕,王忠伟 91

土木工程

- 月塘公跨铁立交桥高位落梁设计与施工/任森智,贺国京,常晓义 95
钢纤维再生混凝土力学性能的影响因素/胡圣军 103

材料科学与工程

- 尾巨桉/金属板复合材料层间正应力分布特征的有限元解析/李 鹏,胡传双,李凯夫 107

学校森林植物实验教学示范中心“大学生创新实验项目”论文专栏

- 里氏木霉 Rut-30 产纤维素酶发酵条件的优化/杜先林,李 辉,王义强,等 112
光皮树不同无性系实生苗与嫁接苗的形态比较/赵冰一,蒋丽娟 120
响应面法优化芽孢杆菌产脂肪酶发酵条件/张 蕾,黎继烈,蒋丽娟 126
天竺桂叶精油成分分析及其对蚊虫的毒杀作用/申 鸽,彭映辉,秦巧慧,等 132
三七花总皂苷的微波辅助提取/胡尚力,王义强 137
N⁺ 注入诱变黑曲霉选育单宁酶生产菌株/丁丽霞,黎继烈,钟海雁 141
2 种松科植物精油对蚊虫的毒杀作用/扶巧梅,彭映辉,熊国红,等 145
产甲壳素脱乙酰酶霉菌 A4 菌株的筛选和鉴定/万芳芳,刘高强,赵 艳,等 148
长沙市立体绿化降温节能效益分析/杨志强,刘 滔,宋勇军,等 152
蛇根木根部生物碱积累的组织化学定位研究/李玉萍,龙绛雪,曹福祥,等 157
山楂中总黄酮和多糖的提取工艺研究/刘巧利,王柳云,严建业,等 162
一种分离自皱边石杉茎尖共生藻类的鉴定及培养/张 慧,马英姿,杨波华,等 166
灵芝多糖提取条件优化的快速方法/熊东林,姚跃飞 170
土壤铅污染对小白菜幼苗保护酶系统的影响/张好岩,何丽萍,吕 果,等 173
壳聚糖添加纳米碳酸钙助剂涂膜对葡萄品质的影响/许 志,曾柏全,赵 莹,等 177
笋用竹正常植株和病害植株根际微生物的分析/高海有,邓超颖,周小慧 181
木质层孔菌对不同染料脱色降解的研究/郭 瑶,董旭杰,曹福祥,等 187
产纤维素酶微生物发酵转化虎杖提高白藜芦醇收率的研究/龚云杰,王 卫,曾柏全,等 190
枸骨叶总皂甙提取工艺的研究/张凤礼,曾超珍,刘志祥 194
双水相萃取法分离纯化银针茶 α -淀粉酶抑制剂的研究/彭佳黛,冯 倩,陈浩春,等 198
酶解法制备冰糖脐橙全果汁饮料的研究/郭 静,曾柏全,刘 艳,等 202

教学平台

- 中南林业科技大学森林植物实验教学示范中心简介 封二

院系推介

- 中南林业科技大学生命科学与技术学院简介 封三

CONTENTS

Microelement concentrations in soil and plant of protection forest in Western Bank of Dongting Lake /BAI Fang-min, TIAN Da-lun, FANG Xi, <i>et al.</i>	1
Intra-and interspecific competition among dominant species in a secondary broad-leaved forest in Huitong County, Hunan Province /LIU Shao-hui, XIANG Wen-hua, ZHAO Li-juan, <i>et al.</i>	10
Characteristics of soil physicochemical property and its carbon storage in urban forest plantation of Changsha city /GAO Shu-chao, TIAN Da-lun, YAN Wen-de, <i>et al.</i>	16
Spatial-temporal changes of the water environment in the wetland along the expressway during operation period /ZHU Zun-ling, HU Hai-bo, CAO Jian, <i>et al.</i>	23
Ecophysiological responses of <i>Spiraea pubescens</i> to different natural light regimes/FENG Qiang, LIU Ning, WANG Tun	27
Analysis of <i>Castanopsis eyrei</i> forest community in Nanyue Hengshan Mountain/LI Chuan-xia	34
Multi-point comparative afforestation test for superior clones of poplar in Hubei province /YANG Chun-hui, WU Yu-zhong, HU Yong-hua, <i>et al.</i>	38
Effect of stand density and fertilization on resin yield of <i>Pinus massoniana</i> /AN Ning, DING Gui-jie, CHEN Hong-hui	46
Flower characteristics and pollen germination rate of four <i>Camellia oleifera</i> clones /LIAO Ting, YUAN De-yi, YUAN Jun, <i>et al.</i>	51
Basic characters of vines in Hengshan Mountain National Nature Conservation Zone in Hunan Province /YAN Li-hong, JIANG Li-yuan, XIANG Guang-feng, <i>et al.</i>	55
Pattern analysis and prediction of O-linked glycosylation sites in protein based on PCA and BP neural networks /WANG Chu-zheng, TAN Xiao-feng, CHEN Yen-wei, <i>et al.</i>	61
Isolation and cloning of full-length cDNA of FatB genes from <i>Camellia oleifera</i> and its sequence analysis /GUO Jing-yi, TAN Xiao-feng, WANG Wei-hao, <i>et al.</i>	66
Effect of ozone and high oxygen treatment on post-harvest strawberry quality/GONG Ji-jun, TANG Jing, LI Zhen-hua, <i>et al.</i>	76
Location analysis on stakeholders and theirs role orientation in development of ecological tourism/KUANG Xiong-jie	81
Design of vibration drum of highway deicing machine used in south China/LIU Chang-sheng	85
Optimization of agricultural product logistics network based on mixed-integer planning model/PANG Yan, WANG Zhong-wei	91
Design and construction of falling girder from high location in Yuetang Overpass leaping over railway /REN Sen-zhi, HE Guo-jing, CHANG Xiao-yi	95
Influence factors of mechanical properties of recycled aggregate concrete with steel fiber/HU Sheng-jun	103
Finite element analysis of the normal inner-stress distributions of laminated <i>Eucalyptus veneer</i> /steel plate lumber /LI Peng, HU Chuan-shuang, LI Kai-fu	107
Optimization of fermentation conditions for cellulase production by <i>Trichoderma reesei</i> Rut C-30 /DU Xian-lin, LI Hui, WANG Yi-qiang, <i>et al.</i>	112
Comparison of morphological structure among different clones of bio-energy oil plant <i>Cornus wisoniana</i> /ZHAO Bing-yi, JIANG Li-juan	120
Optimization of lipase fermentation conditions of <i>Bacillus T3-4</i> by response surface method/ZHANG Lei, LI Ji-lie, JIANG Li-juan	126
Component analysis of essential oil from fresh leaves of <i>Cinnamomum japonicum</i> and oil's activity to mosquitoes /SHEN Ge, PENG Ying-hui, QIN Qiao-hui, <i>et al.</i>	132
Microwave-assisted extraction process of total saponins in <i>Panax notoginseng</i> flower/HU Shang-li, WANG Yi-qiang	137
Breeding of high-yield tannase strain from <i>Aspergillus niger</i> by N ⁺ implantation/DING Li-xia, LI Ji-lie, ZHONG Hai-yan	141
Toxicity of essential oils from two species of Pinaceae against mosquitoes/FU Qiao-mei, PENG Ying-hui, CHEN Fei-fei, <i>et al.</i>	145
Screening and identification of mould A4 strain for producing chitin deacetylase/WAN Fang-fang, LIU Gao-qiang, ZHAO Yan, <i>et al.</i>	148
Benefits analysis of temperature decreasing and energy saving of three-dimensional plantation in Changsha city /YANG Zhi-qiang, LIU Tao, SONG Yong-jun, <i>et al.</i>	152
Histochemical localization of alkaloids accumulation in root of <i>Rauvolfia serpentina</i> /LI Yu-ping, LONG Jiang-xue, CAO Fu-xiang, <i>et al.</i>	157
Extracting conditions of total flavones and polysaccharide from <i>Crataegus pinnatifida</i> /LIU Qiao-li, WANG Liu-yun, YAN Jian-ye, <i>et al.</i>	162
Identification and cultivation of symbiotic algae from <i>Huperzia crispata</i> /ZHANG Hui, MA Ying-zi, YANG Bo-hua, <i>et al.</i>	166
A rapid and optimal method to extracting polysaccharide from <i>Ganoderma lucidum</i> /XIONG Dong-lin, YAO Yue-fei	170
Effect of soil Pb pollution on protective enzyme system of <i>Brassica chinensis</i> seedling/ZHANG Hao-yan, HE Li-ping, LU Guo, <i>et al.</i>	173
Effect of chitosan coating added nano-calcium carbonate on quality of grapes/XU Zhi, ZENG Bai-quan, ZHAO Ying, <i>et al.</i>	177
Analysis of rhizosphere microorganisms on normal edible-shoot bamboos and diseased ones /GAO Hai-you, DENG Chao-ying, ZHOU Xiao-hui	181
Study on the decolorization and degradation of dyes by <i>Fomes lignosus</i> /GUO Yao, DONG Xu-jie, CAO Fu-xiang, <i>et al.</i>	187
Biotransformation of polydatin from <i>Polygonum cuspidatum</i> by high cellulose-yield microbial /GONG Yun-jie, WANG Wei, ZENG Bai-quan, <i>et al.</i>	190
Studies on extraction technology of total saponins from <i>Ilex cornuta</i> leaf/ZHANG Feng-li, ZENG Chao-zhen, LIU Zhi-xiang	194
Studies on extraction of α -amylase inhibitor from silver needle tea by PEG/(NH ₄) ₂ SO ₄ aqueous two-phase system /PEN Jia-dai, FENG Qian, CHEN Hao-chun, <i>et al.</i>	198
Preparation of pure juice beverage of Bingtang navel orange by enzymatic method/GUO Jing, ZENG Bai-quan, LIU Yan, <i>et al.</i>	202