

目 次

森林生物学

- 荒漠梭梭基径-株高分布参数估计及其与林分因子模型研究 汪少华, 杨 婷(1)
华北落叶松天然林密度对林下植被物种组成和多样性的影响研究
..... 丁继伟, 张芸香, 郭跃东, 杨三红, 任 达, 贺志龙, 郭晋平(10)
光强对欧洲鹅耳枥秋季叶衰期光合性能及内源激素的影响 郭力宇, 施 曼, 吴驭帆, 祝遵凌(17)
大果榆苗期对不同水分胁迫的生长与生理响应 刘佳宁, 李春友, 贾长荣, 李艳萍, 王 方, 马玉洁(24)
外源物质处理促进砂生槐种子萌发的效应分析
..... 刘 莹, 李 媛, 刘 彬, 普布次仁, 王玉婷, 杨桂娟, 王军辉, 麻文俊(30)
铁尾矿基质下 2 种人工灌木林特征及其土壤结构改良效益分析
..... 程 达, 李晨光, 李玉灵, 钟林娟, 李晓刚, 杨 焜, 张金玲(36)
重度干旱对 3 种桑树生物量及其生理生化影响的机理探索 郑俊明, 吕志强, 孙志鸿(44)
广西大青山西南桦人工林立地类型划分及评价 唐 诚, 王春胜, 庞圣江, 贾宏炎, 曾 杰(52)
核桃-小麦复合系统土壤碳密度动态特征 王 来, 高鹏翔, 仲崇高, 刘 滨, 侯 琳, 张硕新, 张远迎(58)
民勤县绿洲边缘固沙林防风蚀效应研究 王彦武, 罗 玲, 张 峰, 陈天林(64)
基于 MaxEnt 模型对新疆地区的蒙古沙拐枣潜在分布预测及适生性分析
..... 塞依丁·海米提, 努尔巴依·阿布都沙力克, 许仲林, 阿尔曼·解思斯(71)
橡胶林与其他环境类型间负氧离子水平的比较研究 谢 江, 张勇波, 陈国云, 周会平(78)

林木遗传育种与培育

- 油茶树体钾素含量变化规律及其与产油量的通径分析 闫 梦, 王楚天, 晏雨鸿, 王新新, 胡冬南(83)
细叶百合 *LpSVP* 基因的克隆及其表达分析 汪 王, 苏小霞, 杨柳慧, 周蕴薇(89)
紫丁香与羽叶丁香叶绿体 DNA 提取方法研究 张靖雯, 姜在民, 蔡 靖(95)
小陇山人工油松幼苗苗高生长研究 王 鹏, 万 盼(100)
不同生境下桥山林区麻栎种群有性生殖特性 叶权平, 张文辉(105)
秦白杨 1 号新品种扦插技术研究 张 路, 樊军锋(111)
大兴安岭 3 种主要林型兴安落叶松种子库研究
..... 阿日根, 刘 洋, 杨富荣, 雷那庆, 孟军贵, 吴小红, 铁 牛(116)
配方施肥对早实核桃品种辽核 4 号蛋白质和脂肪含量影响的研究 张博勇, 刘杜玲, 彭少兵, 杨 瑞(120)
面向上海棚架应用的野生藤本植物引种筛选研究 张 婷(124)
26 个葡萄砧木品种耐旱性评价
..... 李敏敏, 袁军伟, 韩 斌, 刘长江, 孙 艳, 尹勇刚, 贾 楠, 郭紫娟, 赵胜建(132)
枇杷花功能成分及抗氧化活性随生长时间的变化 班新伟, 康如如, 魏凌云, 鲁周民(139)
水分胁迫对 3 种扁桃的生长与耗水特征的影响 曾继娟, 朱 强(145)

引进核桃品种在南疆地区的抗寒适应性研究初报	马 凯,韩立群,周晓斌,赵国庆,艾沙江·买买提,梅 阖,樊丁宇,王继勋(153)
森林保护学	
甘肃哈思山天然油松林新渡户树蜂生物学研究	卢钟宝,高 泰,水生英,史宏亮,任利利,石 娟(158)
河北省围场县森林火险区划研究	范 阔,谢士琴,陈玥璐,赵天忠,滕起和(162)
森林经理学	
基于景观格局和生态敏感性的右玉县景观脆弱度分析	盛晓雯,周 伟,曹银贵,成 陆(167)
机载激光雷达森林资源调查系统的设计与试验	瞿 帅,张晓丽,朱程浩,霍朗宁,刘会玲(175)
基于单窗算法的汉中市近 20 年城市热岛效应时空特征	苏 婷,包 玉(183)
木材科学	
甲基丙烯酸羟乙酯/甲基丙烯酸甲酯交联聚合物在木材中原位构建及对其尺寸稳定性影响	吴华平,饶 瑾,杨秀树,刘庭菘,孙芳利(193)
羧甲基化沙柳木粉对水溶液中 Pb ²⁺ 的吸附性能	扈佳琪,王 丽(198)
木质素-酚醛树脂基砂轮片的制备	张 俊,杜官本,周晓剑,王 辉,王文丽(206)
2 种杨树湿心材化学成分分析	李明月,段洪南,吴振强,李兴会,邱 坚(211)
实木门窗料铣削振动理论分析与试验研究	马 岩,宋明亮,杨春梅,周玉成,赵敬光,陈叶叶(215)
绿色木霉侵染对麦秸板剖面密度的影响	张 坤,邱增处,雷亚芳(222)
木质文物三维断层扫描图像处理	赵桂玲,刘 丹,刘 祎,贺 喜,毛 磊,邓宗极(226)
园林绿化与景观设计	
福州市 19 种灌木滞留颗粒物效应与叶片性状研究	段嵩岚,闫淑君,田高飞,金妍超,靳 莎,吴艳芳,刘 震(230)
天目湖流域景观格局时空变化及生态系统服务价值分析	朱 颖,林静雅,胡义涛,莫晓琪,陈德超,王之峰(239)
大学校园绿化效果综合评价指标体系研究——以北京林业大学为例	肖爱华,马履一,王子成,张 巍,张 兴,段 劍(246)
拟自然群落在上海郊野公园应用模式的探析	冷寒冰,王红兵(254)
北方滨海地区乡土野生盐碱植物资源调查及分析	季洪亮,刘红丽,路 艳(261)
千渭之会国家湿地公园植物多样性调查评价	李欣莅,弓 弼,高丽娟,宫晓琳(268)
南京城市公园花境调查分析	王 鑫,弓 弼(273)
林业经济	
中国锯材进口变化及影响因素的实证分析	李秋娟,陈绍志,赵 荣(282)
新疆天然林生态系统服务功能价值评估	兰 洁,张毓涛,师庆东,李吉政,许紫峻,韩燕梁(289)
《西北林学院学报》影响因子年报	封二
《西北林学院学报》征稿简则	封三

CONTENTS

- Estimation on the Distribution Parameters and its Stand Factor Model for Basal Diameter and Height of *Haloxylon ammodendron* in Desert WANG Shao-hua, YANG Ting(1)
- Influences of the Density on Understory Species Composition and Diversity of *Larix principis-rupprechtii* Natural Forest DING Ji-wei, ZHANG Yun-xiang, GUO Yue-dong, YANG San-hong, REN Da, HE Zhi-long, GUO Jin-ping(10)
- Effects of Light Intensity on Photosynthetic Characteristics and Endogenous Hormones of *Carpinus betulus* during Autumn Senescence GUO Li-yu, SHI Man, WU Yu-fan, ZHU Zun-ling(17)
- Growth and Physiological Responses of *Ulmus macrocarpa* to Different Water Stress at Seedling Stage LIU Jia-ning, LI Chun-you, JIA Chang-rong, LI Yan-ping, WANG Fang, MA Yu-jie(24)
- Effects on Promotion of *Sophora moorcroftiana* Seed Germination under Exogenous Substances Treatment LIU Ying, LI Yuan, LIU Bin, Puburenci, WANG Yu-ting, YANG Gui-juan, WANG Jun-hui, MA Wen-jun(30)
- Characteristics and Benefit of Soil Structure Improvement of Planting Two Shrubs in Iron Mining Tailings CHENG Da, LI Chen-guang, LI Yu-ling, ZHONG Lin-juan, LI Xiao-gang, YANG Ye, ZHANG Jin-ling(36)
- Severe Drought Stress Mechanism of Biomass and Physiological-biochemical Characteristics in Three Varieties of *Morus L.* ZHENG Jun-ming, LÜ Zhi-qiang, SUN Zhi-hong(44)
- Site Classification and Evaluation of *Betula alnoides* Plantations at Guangxi Daqing Mountain TANG Cheng, WANG Chun-sheng, PANG Sheng-jiang, JIA Hong-yan, ZENG Jie(52)
- Dynamic Characteristics of Soil Organic Carbon Density in Walnut-wheat Agroforestry System WANG Lai, GAO Peng-xiang, ZHONG Chong-gao, LIU Bin, HOU Lin, ZHANG Shuo-xin, ZHANG Yuan-ying(58)
- Windbreak Effect of Sand-Fixation Forest on the Edge of Oasis in Minqin WANG Yan-wu, LUO Ling, ZHANG Feng, CHEN Tian-lin(64)
- Analysis of Potential Distribution and Suitable Area of *Calligonum mongolicum* in Xinjiang Based on MaxEnt Model Sayit Hamit, Nurbay Abdushalih, XU Zhong-lin, Arman Jiesisi(71)
- Comparison Study of Negative Oxygen Ion in Rubber Plantation and Other Types of Environments XIE Jiang, ZHANG Yong-bo, CHEN Guo-yun, ZHOU Hui-ping(78)
- Changes of Potassium Content and the Path Analysis on Oil Production of *Camellia oleifera* Trees YAN Meng, WANG Chu-tian, YAN Yu-hong, WANG Xin-xin, HU Dong-nan(83)
- Cloning and Expression Analysis of *LpSVP* Gene from *Lilium pumilum* WANG Wang, SU Xiao-xia, YANG Liu-hui, ZHOU Yun-wei(89)
- Extraction Method of Chloroplast DNA of *Syringa oblata* and *Syringa pinnatifolia* ZHANG Jing-wen, JIANG Zai-min, CAI Jing(95)
- Growth Regularity of *Pinus tabulaeformis* Plantation in the Xiaolongshan Mountain WANG Peng, WAN Pan(100)
- Sexual Reproductive Characteristics of the *Quercus acutissima* in the Qiaoshan Forests in Different Habitats YE Quan-ping, ZHANG Wen-hui(105)
- Cutting Technology of the Poplar Cultivar Qinbaiyang ZHANG Lu, FAN Jun-feng(111)
- Study on the Seed Bank of Different Types of *Larix gmelinii* Forests Arigen, LIU Yang, YANG Fu-rong, LEI Na-qing, MENG Jun-gui, WU Xiao-hong, TIE Niu(116)
- Effects of NPK Fertilizers on the Content of Total Protein and Fat to Precocious *Juglans regia* ‘LiaoHe 4’ ZHANG Bo-yong, LIU Du-ling, PENG Shao-bing, YANG Rui(120)
- Selection of Wild Liana for Pergola Greening in Shanghai ZHANG Ting(124)
- Evaluations on the Drought Resistance of 26 Grape Rootstocks LI Min-min, YUAN Jun-wei, HAN Bin, LIU Chang-jiang, SUN Yan, YIN Yong-gang, JIA Nan, GUO Zi-juan, ZHAO Sheng-jian(132)

Dynamic Changes of the Main Active Ingredients and Antioxidant Activities of Loquat Flowers	BAN Xin-wei,KANG Ru-ru,WEI Ling-yun,LU Zhou-min(139)
Effects of Water Stress on the Growth and Water Consumption Characteristics of Three <i>Amygdalus</i> Species	ZENG Ji-juan,ZHU Qiang(145)
A Preliminary Study on Cold Tolerance of Introduced Walnut Varieties in Southern Xinjiang	MA Kai,HAN Li-qun,ZHOU Xiao-bin,ZHAO Guo-qing,Aisajan Mamat,MEI Chuang,FAN Ding-yu,WANG Ji-xun(153)
Biological Characteristics of <i>Sirex nitobei</i> (Hymenoptera: Siricidae) on the Hasi Mountain Natural <i>Pinus tabuliformis</i> Forest in Gansu Province	LU Zhong-bao,GAO Tai,SHUI Sheng-ying,SHI Hong-liang,REN Li-li,SHI Juan(158)
Forest Fire Risk Zone Mapping in Weichang County of Hebei Province	FAN Kuo,XIE Shi-qin,CHEN Yue-lu,ZHAO Tian-zhong,TENG Qi-he(162)
Analysis of Landscape Vulnerability in Youyu County Based on Landscape Pattern and Ecological Sensibility	SHENG Xiao-wen,ZHOU Wei,CAO Yin-gui,CHENG Lu(167)
Design and Test of Airborne LiDAR System for Forest Resources Survey	QU Shuai,ZHANG Xiao-li,ZHU Cheng-hao,HUO Lang-ning,LIU Hui-ling(175)
Spatial-Temporal Characteristics of Urban Heat Island Effect in Hanzhong City in Recent 20 Years Based on Mono-window Algorithm	SU Yuan,BAO Yu(183)
Dimensional Stability Improvement of Wood Via <i>in situ</i> Construction of Polyhydroxyethyl Methylacrylate and Polymethyl Methylacrylate Networks	WU Hua-ping,RAO Jin,YANG Xiu-shu,LIU Ting-song,SUN Fang-li(193)
Adsorption Properties of Pb ²⁺ in Aqueous Solution by Carboxymethyl <i>Salix psammophila</i> Powder	HU Jia-qi,WANG Li(198)
Preparation of Grinding Wheel Based on Lignin-Phenol-Formaldehyde Resin Matrix	ZHANG Jun,DU Guan-ben,ZHOU Xiao-jian,WANG Hui,WANG Wen-li(206)
Chemical Composition of the Wetwoods of Two Kinds of Poplar Species	LI Ming-yue,DUAN Hong-nan,WU Zhen-qiang,LI Xing-hui,QUI Jian(211)
Theoretical Analysis and Experimental Study on Milling Vibration of Solid-Wood Door and Window	MA Yan,SONG Ming-liang,YANG Chun-mei,ZHOU Yu-cheng,ZHAO Jing-guang,CHEN Ye-ye(215)
Effects of <i>Trichoderma viride</i> on the Density of Oriented Structural Straw Board	ZHANG Kun,QUI Zeng-chu,LEI Ya-fang(222)
Nondestructive Evaluation of Wooden Cultural Relics Based on Three Dimensional Scan and Reconstruction	ZHAO Gui-ling,LIU Dan,LIU Yi,HE Xi,MAO Lei,DENG Zhong-ji(226)
Effects of the Particles Retained by 19 Widely Used Shrubs on Road Sides and Their Relationships with Leaf Trait in Fuzhou	DUAN Song-lan,YAN Shu-jun,TIAN Gao-fei,JIN Yan-chao,JIN Sha,WU Yan-fang,LIU Zhen(230)
Studies on Spatiotemporal Change of Landscape Pattern and Ecosystem Service Value in Tianmuhu Watershed	ZHU Ying,LIN Jing-ya,HU Yi-tao,MO Xiao-qi,CHEN De-chao,WANG Zhi-zheng(239)
Comprehensive Evaluation on Index System of University Campus Greening Effect——A Case Study of Beijing Forestry University	XIAO Ai-hua,MA Lü-yi,WANG Zi-cheng,ZHANG Wei,ZHANG Xing,DUAN Jie(246)
A Model Analysis of Simulating Natural Community in Country Parks in Shanghai	LENG Han-bing,WANG Hong-bing(254)
Investigation and Analysis of the Wild Saline-alkali Plants in the Coastal Area of Northern China	JI Hong-liang,LIU Hong-li,LU Yan(261)
Investigation and Evaluation of Plant Diversity in Qianweizihui National Wetland Park	LI Xin-li,GONG Bi,GAO Li-juan,GONG Xiao-lin(268)
Investigation and Analysis of Flower Border in Nanjing City Park	WANG Xin,GONG Bi(273)
An Empirical Analysis on China's Sawn Timber Import and Its Influencing Factors	LI Qiu-juan,CHEN Shao-zhi,ZHAO Rong(282)
Assessment of Service Functions Value of the Natural Forest Protection Program in Xinjiang	LAN Jie,ZHANG Yu-tao,SHI Qing-dong,LI Ji-mei,XU Zi-jun,HAN Yan-liang(289)