

目 次

蒙古栎次生林林木竞争对不同抚育间伐方式的响应·····	胡雪凡,段光爽,张会儒,等 (1)
不同栽植代数杉木人工林土壤磷素特征研究·····	张 虹,于姣妲,李海洋,等 (10)
基于频谱分析用针刺仪测定树木年龄的算法·····	潘 虹,卢 军,郭旭展,等 (19)
‘84K’杨组氨基酸激酶基因 <i>PaHK3b</i> 的克隆及功能分析 ·····	鲁俊倩,武 舒,钟姍辰,等 (26)
珍稀濒危植物金丝李种子休眠解除的转录组分析·····	张俊杰,张灵芝,夏 科,等 (35)
绒毛白蜡 (<i>Fraxinus velutina</i> Torr) 韧皮部响应白蜡窄吉丁 (<i>Agrilus planipennis</i> Fairmaire) 危害的转录组变化 ·····	封润霞,赵 婕,张苏芳,等 (47)
楸树种子发育过程中内源激素含量的动态变化·····	韩东花,杨桂娟,肖 遥,等 (56)
杉木幼龄林分断面积生长的良种与密度效应研究·····	李晓燕,段爱国,张建国,等 (65)
2 种花楸果实类胡萝卜素成分与果色关系 ·····	于雪丹,张川红,郑勇奇,等 (71)
赤松宜林地昆崙山腮扁叶蜂虫基指数的评估·····	胡瑞瑞,梁 军,谢 宪,等 (80)
土壤理化性质对红锥人工林生长及心材形成的影响·····	刘光金,贾宏炎,徐建民,等 (88)
基于面向对象多特征变化向量分析法的森林资源变化检测·····	王晓慧,谭炳香,李世明,等 (98)
杉木林下套种阔叶树对土壤生态酶活性及其化学计量比的影响·····	孙思怡,卢胜旭,陆宇明,等 (106)
不同种源华重楼主要生物活性成分地理变异及其相关性分析·····	曾平生,厉月桥,周新华,等 (114)
不同栓皮栎家系对重金属的耐性和富集特性·····	施 翔,王树凤,陈益泰,等 (121)
格氏栲天然林凋落物对马尾松种子萌发的影响·····	贾梅花,王 哲,刘金福,等 (128)
福建柏实时荧光定量 PCR 内参基因的选择 ·····	周成城,荣俊冬,谢德金,等 (137)
三峡库区消落带水桦 (<i>Betula nigra</i>) 周期性水淹后的生理与结构响应 ·····	甘丽萍,任 立,李 豪,等 (146)
研究简报	
8 种杀菌剂对 9 种薄壳山核桃炭疽病原菌的毒力测定 ·····	孟 珂,张亚波,常 君,等 (153)
油茶叶片氮磷钾含量与经济性状的关联分析·····	曹永庆,任华东,王开良,等 (165)
苹小吉丁林间扩散行为的初步研究·····	马志龙,姚艳霞,阿地力·沙塔尔 (173)
桐花树根部一株内生固氮菌的筛选及其培养特性研究·····	蔺红苹,谢呈媛,王 芸,等 (181)

Contents

Response of Tree Competition in Natural Secondary <i>Quercus mongolica</i> Forest to Thinning Treatment	HU Xue-fan, DUAN Guang-shuang, ZHANG Hui-ru, <i>et al</i> (9)
Characteristics of Soil Phosphorus in <i>Cunninghamia lanceolata</i> Plantations with Different Planting Rotations	ZHANG Hong, YU Jiao-da, LI Hai-yang, <i>et al</i> (18)
Tree Age Estimation Algorithm Based on Spectrum Analysis by Resistograph	PAN Hong, LU Jun, GUO Xu-zhan, <i>et al</i> (25)
Cloning and Functional Analysis of Histidine Kinase Gene <i>PaHK3b</i> in Poplar '84K'	LU Jun-qian, WU Shu, ZHONG Shan-chen, <i>et al</i> (34)
Transcriptomic Analysis of the Seed of <i>Garcinia paucinervis</i> , a Rare and Endangered Plant Species, During Dormancy Releasing	ZHANG Jun-jie, ZHANG Ling-yi, XIA Ke, <i>et al</i> (46)
Transcriptome Changes in the Phloem of <i>Fraxinus velutina</i> Torr Response to Infection of <i>Agrilus planipennis</i> Fairmaire	FENG Run-xia, ZHAO Jie, ZHANG Su-fang, <i>et al</i> (55)
Dynamic Changes of Endogenous Hormone Content in <i>Catalpa bungei</i> Seeds During Their Developmental Periods	HAN Dong-hua, YANG Gui-juan, XIAO Yao, <i>et al</i> (64)
Effects of Improved Varieties and Densities on Stand Basal Area Growth of Young Chinese Fir (<i>Cunninghamia lanceolata</i>) Plantation	LI Xiao-yan, DUAN Ai-guo, ZHANG Jian-guo, <i>et al</i> (70)
Relationship between Carotenoid Component and Fruit Color of Two <i>Sorbus</i> Species	YU Xue-dan, ZHANG Chuan-hong, ZHENG Yong-qi, <i>et al</i> (79)
Evaluate the Pest Based Index of <i>Cephalcia kunyushanica</i>	HU Rui-rui, LIANG Jun, XIE Xian, <i>et al</i> (87)
Effects of Soil Physicochemical Properties on Growth and Heartwood Formation of <i>Castanopsis hystrix</i> Plantation	LIU Guang-jin, JIA Hong-yan, XU Jian-min, <i>et al</i> (97)
Object-oriented Forest Change Detection Based on Multi-feature Change Vector Analysis	WANG Xiao-hui, TAN Bing-xiang, LI Shi-ming, <i>et al</i> (105)
Effects of Chinese Fir Interplanted with Broadleaved Trees on Soil Ecological Enzyme Activity and Stoichiometry	SUN Si-yi, LU Sheng-xu, LU Yu-ming, <i>et al</i> (113)
Geographical Variation and Correlation Analysis of the Main Bioactive Components of <i>Paris polyphylla</i> from Different Provenances	ZENG Ping-sheng, LI Yue-qiao, ZHOU Xin-hua, <i>et al</i> (120)
Tolerance and Enrichment Characteristics of Different Families of <i>Quercus variabilis</i> to Heavy Metal	SHI Xiang, WANG Shu-feng, CHEN Yi-tai, <i>et al</i> (127)
Effects of <i>Castanopsis kawakamii</i> Forest Litter on Seed Germination of <i>Pinus massoniana</i>	JIA Mei-hua, WANG Zhe, LIU Jin-fu, <i>et al</i> (136)
Quantitative Real-time PCR Analysis of <i>Fokienia hodginsii</i> During Selection of Reference Genes	ZHOU Cheng-cheng, RONG Jun-dong, XIE De-jin, <i>et al</i> (145)
Physiological and Structural Responses of <i>Betula nigra</i> to Periodic Flooding in Three Gorges Reservoir Fluctuating Zone	GAN Li-ping, REN Li, LI Hao, <i>et al</i> (152)
Scientific Notes	
Toxicity Test with 8 Fungicides Against 9 Pathogens of Pecan Anthracnose (<i>Colletotrichum</i> spp.)	MENG Ke, ZHANG Ya-bo, CHANG Jun, <i>et al</i> (164)
Analysis on the Correlations between Nitrogen, Phosphorus, Potassium Content in Leaves and the Economic Characters of <i>Camellia oleifera</i>	CAO Yong-qing, REN Hua-dong, WANG Kai-liang, <i>et al</i> (172)
A Preliminary Study on the Field-Diffusion Behavior of <i>Agrilus mali</i> Matsumura (Coleoptera: Bupresidea)	MA Zhi-long, YAO Yan-xia, Adili Sattar(180)
Screening of Endophytic Nitrogen Fixation Bacteria from Roots of <i>Aegiceras corniculatum</i> and Optimization of Their Culture Conditions	LIN Hong-ping, XIE Cheng-yuan, WANG Yun, <i>et al</i> (186)