

1977年创刊 全国中文核心期刊

北方园艺

北方园艺

Northern Horticulture

总第 231 期

2010 年第 24 期(12 月下)

1977 年创刊

◆半月刊◆ 2010 年第 24 期(12 月下)

总第 231 期

主管单位

黑龙江省农业科学院

主办单位

黑龙江省园艺学会

黑龙江省农业科学院

编辑出版中心

编辑出版

《北方园艺》编辑部

编辑出版中心

主 任 毕洪文

副 主 任 苗玉新 黄峰华

主 编 毕洪文

责任编辑 贾屹萍 黄峰华

编 辑 刘 博 曲红云

李晓晨 王 雪

王红蕾

美术编辑 许 真

广告发行 白晓琳 李佩英

地 址 哈尔滨市南岗区
学府路 368 号

邮 编 150086

电 话 0451-86674276

电子信箱 bfybjb@163.com

印 刷 哈尔滨博奇彩色印刷有限公司

国内发行 哈尔滨市邮局

邮发代号 14-150

订 阅 全国各地邮局

国外发行 中国国际图书贸易总公司
(北京 399 信箱)

国外代号 M 5011

中国标准连续出版号 ISSN 1001-0009
CN 23-1247/S

广告经营许可证号 2301070000009

出版日期 每月 15、30 日

定 价 6 元

试验研究

外源 NO 供体对甘蓝根系和叶片光合特性的影响

..... 王凤华,陈双臣,李春花,等(1)

丘北辣椒不同间作模式的经济效益分析..... 字淑慧,王 丽,罗绍康,等(4)

播种密度对打瓜产量和生理参数的影响..... 张占琴,战 勇,魏建军,等(8)

拉肖皂苷元和拉肖皂苷 C 对油菜种子萌发和幼苗生长的影响

..... 郭 杰,管 桦,张存莉,等(12)

不同光照强度对叶菜类观赏蔬菜生长的影响

..... 梁 磊,何 勇,朱祝军(14)

不同引发方式对葫芦种子萌发的影响..... 亢 敏,别之龙,周 虢,等(18)

不同高度结果部位对酿酒葡萄果实品质的影响

..... 刘 玲,雷小明,张军贤,等(21)

我国东北寒冷地区几个茶藨子野生种花器研究

..... 李 锋,张艳波,张冰冰,等(25)

不同氮磷钾配比对新川中岛桃营养生长及果实产量和质量的影响

..... 金方伦,黎 明,徐 琼,等(30)

扁核酸大枣采后生理活动变化的探讨..... 张坤朋,刘彦珍,蔡 敏(34)

研究简报

木醋液作灌根对番茄生长发育和产量的影响

..... 黄 文,应芳卿,黄晓燕,等(37)

酰胺态氮肥不同施肥水平对猪毛菜产量及品质的影响

..... 樊新华,王彩芬,张义奇,等(39)

外源添加沸石对猪粪腐解中重金属含量的动态影响研究

..... 解占军,贾冬艳,王秀娟,等(41)

目次

高温胁迫下水杨酸对黄瓜幼苗生理特性的影响	周艳丽,李金英,王秋月,等(44)
电解水对叶菜杀菌效果的研究	侯梦石,曹薇,赵淑梅,等(46)
不同肥料配方对番茄复合基质育苗的影响	赵娜,徐晶,汪磊,等(49)
渝西无公害蔬菜基地蔬菜硝酸盐污染现状调查	李晓英,薛梅(51)
不同浓度 NaCl 处理对鸭梨叶片多胺代谢的影响	王晓玲,张玉星(54)
Harpin 蛋白对冬枣叶片生长和果实发育的影响	李明,张柱岐,李主江(56)
葡萄试管苗根系修剪及药剂处理对其移栽成活率的影响	张肖凌,赵永平(59)
硅钙钾肥对红富士苹果应用效果研究	拓俊绒,朱少卿,慕鹏,等(61)
甘肃野生果树种质资源及开发利用途径研究	张玉芹(62)
叶绿体色素的提取方法改进及其应用	武卫华,刘忠荣,黄先敏,等(67)
樟树叶片水溶性粗多糖提取及抗氧化活性研究	王娜,王凯旋,李静,等(70)
新疆树上干杏不定芽再生影响因子的研究	周黎,王晓军,刘敏,等(73)

设施园艺

宁夏地区设施红地球葡萄促成栽培花芽分化研究	张海军,张娟,张宝成,等(76)
-----------------------------	------------------

栽培技术

☆ 菜园 ☆

热带地区农家品种南瓜露地节水设施栽培技术	云天海,陈贻诵,邓长智,等(78)
----------------------------	-------------------

☆ 果园 ☆

海红果优质丰产栽培技术	白与年,陈瑞芳(80)
树莓根段扦插技术	蔡智军,程贵兰(82)
雪莲果的特点及高产栽培技术	王丽君,魏建文(83)

园林花卉

☆ 植物 ☆

芳香植物在城镇密集区园林中的应用	樊瑞莲,陈放,白洁(84)
‘金焰’绣线菊幼苗水分胁迫耐性评价方法研究	武晓娜,吴萍,程蕾洁,等(89)

贵州荔波茂兰的山体上部群落特征简述	张 鼎,容 丽(94)
水分胁迫下三种李属红叶树种光合作用的日变化	张 义,胡芳芳(97)
北美香柏硬枝扦插繁殖技术研究	王 玲,刘明国,董胜君(100)
几种杀菌剂对裂褶菌的室内毒力测定	祁金玉,高国平,张 伟(103)
儿童活动空间慎用的几种常见有毒植物	周梦佳,蔡 平(106)
不同糖浓度对蜡梅切花寿命的影响	周明芹(110)
不同光照条件对一串红“猩红皇后”幼苗生长的影响	姚爱敏,陈洪伟,石爱平,等(113)
黄刺玫的栽培技术	李井会,朱丽丽,宋述尧(117)
NAA 对金叶女贞水插生根效果试验	罗林会,王 勤(118)

☆景观☆

春色叶树种在植物造景中的应用	薛会雯,金晓玲,刘海洋(119)
广场和草坪夏季微气候及人体舒适度研究	卜政花,周春玲,颜凤娟(123)
高枝含笑在园林绿化中的配置及应用	林凯芳,郑奕雄,杨培新,等(128)

生物技术

壳斗科七种常绿树种在南京地区的物候期观测	李乃伟,陆小清,李云龙,等(131)
罗布麻种质的过氧化物酶及酯酶同工酶研究	任晓月,陈彦云(134)
具有蛋白酶体 $\beta 7$ 亚基功能的棉铃虫 HaPro $\beta 7$ 基因的克隆与序列结构及表达研究	王更先,司马杨虎,张升祥,等(138)
不同激素水平对百合愈伤组织诱导研究	林 海,张 芳,郝慧敏(142)
不同基因型萝卜品系硝酸盐含量的差异比较与聚类分析	刘社平,任喜波,戴希尧,等(146)
转番茄 <i>Bax inhibitor-1</i> 基因烟草悬浮细胞系的建立	刘金娜,张秀清,马秋敏,等(149)
龙骨花的组织培养研究	纪春艳,张洋洋,王 颖(152)
胼胝兜兰的组培快繁技术研究	周 丽,邓克云,魏春杰(154)
荠菜快繁体系的初步研究	贾毛毛,李学强,李文静(157)

植物保护

不同氮、碳源对黄花乌头根腐病原菌生长的影响	魏书琴(160)
葡萄根癌病菌的快速检测技术	樊金娟,王 平,刘长远,等(162)
温度对黑粪蚊生长发育的影响	伏召辉,张国辉,仵均祥(166)
大白菜双斑萤叶甲的发生与防治	史庆馨,方 明,聂 凯,等(169)
墨兰炭疽病菌生物学特性研究	高 洋,刘爱媛,冯淑杰,等(170)
杨扇舟蛾幼虫取食量及成虫羽化节律的研究	王佳璐,谭荣荣(172)

土壤与肥料

云南省河口县植蕉土壤基本养分状况分析 魏翔,张薇,张德刚,等(174)

贮藏保鲜加工

不同浓度纤维素酶在双红葡萄酒中对颜色的影响 吕闻明(177)

1-MCP 处理对‘红阳’和‘徐香’猕猴桃保鲜效果的影响 夏源苑,饶景萍,辛付存,等(180)

岳丰苹果制汁性能研究 王冬梅,吕天星,闫忠业,等(184)

超声波处理对樱桃番茄贮藏品质的影响 李西进,于军香(186)

食用菌

杏鲍菇工厂化栽培品种杂交育种研究 周云,朱婧,郑雪平,等(189)

云南大白口蘑子实体中秋水仙碱含量的 TLC 法测定研究 刘鸿高,王元忠(193)

六种灵芝子实体多糖含量的对比分析 班立桐,杨红澎,郑志广,等(195)

中草药

水分胁迫对枸杞子总黄酮的影响 郑国保,朱金霞,张源沛,等(198)

不同产地中华卷柏营养器官总黄酮含量分布的研究 赵昕,吴子龙,叶嘉,等(201)

北方干旱地区甘草栽培技术 陈胜利(204)

青藏高原东缘龙胆属藏药植物资源调查 巩红冬(206)

辽宁省主栽五味子生物学特征分析 李先宽,韩荣春,赵玥,等(209)

产业论坛

黑龙江省果树产业发展情况综述 陶可全,刘海军(212)

专题综述

兰花离体开花的研究进展 徐京,庞基良(215)

野生桔梗的综合开发与利用研究 吴姝菊,孟玥(219)

蓝莓果实中营养成分的生物学功能 贺强,吴立仁(222)

杨树抗非生物胁迫基因工程研究 王颖,金华,刘明国,等(225)

苹果生理粗皮病研究进展 刘秀春,范业宏(229)

Northern Horticulture

Main Contents

Experimentation and Research

- Effects of Exogenous Nitric Oxide Donor on Root and Photosynthetic Characteristics of Cabbage under NaCl Stress WANG Feng-hua, CHEN Shuang-chen, LI Chun-hua, et al(1)
- Economic Efficiency of Qubei Chili Pepper by Different Intercropping Patterns ZI Shu-hui, WANG Li, LUO Shao-kang, et al(4)
- Effects of Seeding Density on Yield and Physiological of Watermelon ZHANG Zhan-qin, ZHAN Yong, WEI Jian-jun, et al(8)
- Effects of Laxogenin and Smilscobinoside C on Seed Germination and Seedlings Growth of Rape GUO Jie, GUAN Hua, ZHANG Cun-li, et al(12)
- Effects of Different Light Intensities on the Growth of Leafy Vegetables LIANG Lei, HE Yong, ZHU Zhu-jun(14)
- Effects of Different Priming Methods on the Germination of Bottle Gourd Seeds KANG Min, BIE Zhi-long, ZHOU Xiao, et al(18)
- Effect of Different Fruit Set Heights on Quality of Wine Grapes LIU Ling, LEI Xiao-ming, ZHANG Jun-xian, et al(21)
- Studies on Flower Organs of Some Wild *Ribes* Species in Northeast China LI Feng, ZHANG Yan-bo, ZHANG Bing-bing, et al(25)
- Influence of Different N,P,K Ratio on the Vegetative Growth and Fruit Quality of Xinchuanzhongdao Peach JIN Fang-lun, LI ming, XU Qun, et al(30)
- Discussing on the Post-harvest Physiology of Fruit of *Ziziphus jujube* Mill 'bianhesuan' ZHANG Kun-peng, LIU Yan-zhen, CAI Min(34)

Research Notes

- Effects of Wood Vinegar for Irrigating Roots on Growth and Yield HUANG Wen, YING Fang-qing, HUANG Xiao-yan, et al(37)
- Effects of Different Fertilization Level of Amide Nitrogen Fertilizer on Yield and Quality of *Salsola* FAN Xin-hua, WANG Cai-fen, ZHANG Yi-qi, et al(39)
- Study on Heavy Metals Content of Pig Manure by Supplying Zeolite XIE Zhan-jun, JIA Dong-yan, WANG Xiu-juan, et al(41)
- Effect of Salicylic Acid on Physiological Character of Cucumber Seedlings under High Temperature Stress ZHOU Yan-li, LI Jing-ying, WANG Qiu-yue, et al(44)
- Effect of Electrolyzed Water on Sterilization of Leafy vegetable HOU Meng-shi, CAO Wei, ZHAO Shu-mei, et al(46)
- Effects of Different Fertilizer Formula Proportion on Compound Material Seeding of Tomato ZHAO Na, XU Jing, WANG Lei, et al(49)
- Investigation on Nitrate Content of Vegetables of Non-environmental-pollution Vegetable Base in Western Chongqing LI Xiao-ying, XUE Mei(51)
- Effects of NaCl Treatment at Different Concentrations on Polyamine Metabolism in the Leaves of Yali Pear WANG Xiao-ling, ZHANG Yu-xing(54)
- Effects of HarpinXoo Protein on the Leaf Growth and Fruit Development of *Ziziphus jujuba* LI Ming, ZHANG Zhu-qi, LI Zhu-jiang(56)
- Effects of Root System Pruning and Chemical Treatment on Transplanting Survival Rate of Grape Plantlets *in Vitro* ZHANG Xiao-ling, ZHAO Yong-ping(59)
- Study on Application Effects of Silicium Calcium and Potassic Fertilizer on the Fuji Apple TUO Jun-rong, ZHU Shao-qing, MU Peng, et al(61)
- Study on the Germ Plasma Resources of the Wild Fruit Tree and its Exploitation in Gansu ZHANG Yu-qin(62)
- Extract Method of Chloroplast Pigment and its application WU Wei-hua, LIU Zhong-rong, HUANG Xian-min, et al(67)
- Study on Extraction and Antioxidant Activity of Water-soluble Coarse Polysaccharides from Camphor Tree WANG Na, WANG Kai-xuan, LI Jing, et al(70)
- Factors Affecting Shoot Regeneration of Apricot Cultivar "SHU shang-gan" ZHOU Li, WANG Xiao-jun, LIU Min, et al(73)

Garden Design and Garden Plants

- The Application of Aromatic Plants in City and Town Concentrated Areas FAN Rui-lian, CHEN Fang, BAI Jie(84)
- Simple Method to Evaluate the Drought Tolerance of *Spiraea × humalda* 'Goldflame' Seedlings WU Xiao-na, WU Ping, CHENG Lei-jie, et al(89)
- Characters of Communities on Upside of Mountains at Maolan, Libo County of Guizhou ZHANG Ding, RONG Li(94)
- Daily Changes of Photosynthetic Characteristics Among Three Red-leaf Prunus Varieties Under Water Stress ZHANG Yi, HU Fang-fang(97)
- Study on Hard-wood Cutting Propagation Techniques of *Thuja occidentalis* L. WANG Ling, LIU Ming-guo, DONG Sheng-jun(100)
- Toxicity Test of Fungicides to *Schizophyllum Commune* QI Jin-yu, GAO Guo-ping, ZHANG Wei(103)
- Prudent Use of Several Common Poisonous Plants in Children's Space ZHOU Meng-jia, CAI Ping(106)
- Influences of Different Concentration of Sucrose and Glucose on the Life of Cut Flowers of *Chimonanthus praecox* ZHOU Ming-qin(110)
- Effect of Different Light Intensity on Seedling Growth of *Salvia splendens* YAO Ai-min, CHEN Hong-wei, SHI Ai-ping, et al(113)

Responsible Institution

Heilongjiang Academy of Agricultural Sciences

Sponsored by

Horticultural Insititute of Heilongjiang

Heilongjiang Academy of Agricultural Sciences

Edited & Published by

Editorial Department of NORTHERN HORTICULTURE

Editing and Publishing Center

Director BI Hong-wen

Vice-director MIAO Yu-xin HUANG Feng-hua

Address

368 Xuefu Road, Nangang District, Harbin, 150086, China

Tel 0451-86674276

Testing of Effect of NAA on <i>Ligustrum vicaryi</i> for Rooting in Water-cultivation	LUO Lin-hui ,WANG Qin(118)
Application of Spring Color-leaved Trees in Plant Landscaping	XUE Hui-wen,JIN Xiao-ling,LIU Hai-yang(119)
Study on Microclimate and Human Comfort of Square and Lawn in Summer	BU Zheng-hua,ZHOU Chun-ling,YAN Feng-juan(123)
Configuration and Application of <i>Michelia figo</i> on High Branch in the Landscaping	LIN Kai-fang,ZHENG Yi-xiong,YANG Pei-xin,et al(128)
Investigation on Phenophase of Seven Evergreen Species of Fagaceae in Nanjing Area	LI Nai-wei,LU Xiao-qing,LI Yun-long,et al(131)

Biotechnology

Research of Peroxidase Isozyme and Esterase Isozyme of Germplasm of <i>Apocynum venetum</i> Linn.	REN Xiao-yue,CHEN Yan-yun(134)
Cloning,Sequence Structure and Expression of <i>HaProfl</i> Gene with Proteasome β Subunit Function in the <i>Helicoverpa armigera</i>	WANG Geng-xian,SIMA Yang-hu,ZHANG Sheng-xiang,et al(138)
Study on the Induction Conditions of Callus of <i>Lilium candidum</i> L.	LIN Hai,ZHANG Fang,HAO Hui-min(142)
Comparison and Clustering Analysis to Nitrate Content in Different Genotype Radish	LIU She-ping,REN Xi-bo,DAI Xi-yao,et al(146)
Establishment of Suspension Cell Line of Tomato <i>Bax inhibitor-1</i> Gene in Transgenic Tobacco	LIU Jin-na,ZHANG Xiu-qing,MA Qiu-min,et al(149)
Study on Tissue Culture of <i>Euphorbia trigona</i> H.	JI Chun-yan,ZHANG Yang-yang,WANG Ying(152)
Study on Tissue Culture and Propagation Techniques of <i>Paphiopedilum callosum</i>	ZHOU Li,DENG Ke-Yun,WEI Chun-jie(154)
Preliminary Study on Rapid Propagation System of <i>Capsella bursa-pastoris</i>	JIA Mao-mao,LI Xue-qiang,LI Wen-jing(157)

Plant Protection

Effect of Different Nitrogen Sources and Carbon Sources on Pathogens Growth of <i>Aconitum coreanum</i> Root Rot Disease	WEI Shu-qin(160)
Rapid Molecular Detection of <i>Agrobacterium vitis</i>	FAN Jin-juan,WANG Ping,LIU Chang-yuan,et al(162)
Influence of Temperature on Growth and Development of <i>Scatopse</i> sp.	FU Zhao-hui,ZHANG Guo-hui,WU Jun-xiang(166)
Study on Biological Characteristics of the <i>Colletotrichum gloeosporioides</i> of <i>Cymbidium Sinense</i>	GAO Yang,LIU Ai-yuan ,FENG Shu-jie,et al(170)
Study on the Larval Feeding Amount and the Emergence Rhythm in <i>Clostera anachoreta</i> (Fabricius)	WANG Jia-lu,TAN Rong-rong(172)

Soil and Fertilize

Analysis of Soil Nutrients in Banana Plant Soil in Hekou County of Yunnan Province	WEI Xiang,ZHANG Wei,ZHANG De-gang,et al(174)
--	--

Storage and Processing

Effect of Different Concentrations Cellulases on Color of Shuanghong Vitis in Make Wine	LV Wen-ming(177)
Effects of 1-MCP on Storage of 'Hongyang' and 'Xuxiang' Kiwifruit	XIA Yuan-yuan,RAO Jing-ping,XIN Fu-cun,et al(180)
Study on Juicing Performace of 'Yuefeng'	WANG Dong-mei,LV Tian-xing,YAN Zhong-ye,et al(184)
Effect of Ultrasonic Treatment on the Cherry Tomato Quality During Storage	LI Xi-jin,YU Jun-xiang(186)

Edible Fungi

Breeding New Strain of <i>Pleurotus eryngii</i> Suitable for Cultivation in Industry by Hybridization	ZHOU Yun,ZHU Jing,ZHENG Xue-ping,et al(189)
Determination of the Colchicine in <i>Tricholoma giganteum</i> Masee Fruit Body from Yunnan by TLC	LIU Hong-gao,WANG Yuan-zhong(193)
Contrastive Analysis on Content of Polysaccharide from Six <i>Ganoderma Lucidum</i>	BAN Li-tong,YANG Hong-peng,ZHENG Zhi-guang,et al(195)

Chinese Traditional Medicine

Effects of Water Stress on the Total Flavonoids of <i>Lycium barbarum</i>	ZHENG Guo-bao,ZHU Jin-xia,ZHANG Yuan-pei,et al(198)
Study on the Distribution of Total Flavonoids Content in Nutrient Organs of <i>Selaginella sinensis</i> from Different Areas	ZHAO Xin,WU Zi-long,YE Jia,et al(201)
Investigation of the Traditional Tibetan Medicine Plant Resource of the <i>Gentiana</i> in the Eastern of Qinghai-Tibet Plateau	GONG Hong-dong(206)
Analysis on the Biological Characteristics of Cultivated <i>Fructus Schisandrae</i> in Liaoning Province	LI Xian-kuan,HAN Rong-chun,ZHAO Yue,et al(209)

Summarize

Research Advances on <i>in vitro</i> Flowering of Orchid	XU Jing,PANG Ji-liang(215)
Comprehensive Development and Utilization of Wild Platycodon	WU Shu-ju,MENG yue(219)
Discussions on the Biological Function of Nutrients in Blueberry Fruit	HE Qiang,WU Li-ren(222)
Genetic Engineering of Biological Stress Tolerance in Poplar	WANG Ying,JIN Hua,LIU Ming-guo,et al(225)
Research Progress of Internal Bark Necrosis of Apple	LIU Xiu-chun,FAN Ye-hong(229)

Editor-in-chief BI Hong-wen
Chief Editor JIA Dan-ping HUANG Feng-hua
Editor LIU Bo QU Hong-yun
 LI Xiao-chen WANG Xue
 WANG Hong-lei
Artistic Editor XU Zhen
Advertising BAI Xiao-lin LI Pei-ying
E-mail bfybjb@163.com

Printed by
 Harbin Boqi Colour Printing Company Limited
Domestic Distributed by
 Harbin Post Office
Oversea Distributed by
 China International Book Trading Corporation(P.O.Box 399)
Publishing Date Monthly 15th,30th
Price 6 Yuan