

中文核心期刊
中国农业核心期刊
美国化学文摘社 (CAS) 收录期刊

全国优秀农业期刊
中国北方优秀期刊
黑龙江省优秀期刊

ISSN 1001-0009
CN 23-1247/S

北方园艺

NORTHERN HORTICULTURE

黑龙江省农业科学院
黑龙江省园艺学会 主办

19
2016

北方园艺

(1977 年创刊·半月刊)

BEIFANG YUANYI

总第 370 期 2016 年第 19 期 10 月(上)

目 次

◆试验研究◆

- 甜瓜果形指数的 F_2 代遗传研究 陈克农,张红卓,袁丽伟,等(1)
- 平衡施肥对旱地‘同心圆枣’产量与品质的影响 魏天军,李百云,李 慧(5)
- 不同氮肥用量对大白菜‘早熟五号’生长及氮磷钾积累的影响 邵泱峰,李松昊,柴伟国(9)
- 不同养分供应量对“霞多丽”葡萄 N,P,K 吸收量及果实品质的影响 马丹阳,李双岑,胡宏远,等(13)
- 贺兰山东麓酿酒葡萄“赤霞珠”合理灌水量的研究 李 磊,王 锐,纪立东,等(17)
- 生草对树冠不同部位果实产量和品质的影响 史 进,李文胜,张俊苗(22)
- 缺素胁迫对软枣猕猴桃幼苗生长的影响 陈 鑫,刘 丹,李然红,等(27)

◆研究简报◆

- 野生水果鹰爪枫果实性状调查 李 杰,冯跃华,罗 睿,等(31)
- 赤霉素处理对‘丽红宝’葡萄果实品质及着色的影响 赵荣华,白世践,李 超,等(35)
- 光照强度与生长空间对蔓生豇豆生长的影响 庞淑敏,方贯娜(39)
- 黔南州野生美味猕猴桃果实生长发育规律 王传明,韩忠耀,刘承贵,等(42)
- 基质育苗与土培育苗对草莓生长特性的影响 郑剑超(46)

五种核果类果树种仁油含量与脂肪酸组成分析·····	薛新平,陈敏克(49)
---------------------------	-------------

◆设施园艺◆

温室方位角对日光温室光环境影响的模拟研究·····	杨文雄,马承伟(52)
LED连续光 and 不同频率间歇光对黄瓜幼苗生长及光合特性的影响·····	王达菲,杨振超,蔡华,等(55)
不同光质对黄瓜种子发芽、幼苗生长及抗寒性的影响·····	刘卫成,韦峰,韩泽宇,等(59)
高寒地区设施桃树延迟栽培技术·····	赵宝龙,孙军利,王晓东,等(63)

◆栽培技术◆

☆瓜园☆

甜瓜“西农脆宝”早春大棚优质高效栽培技术·····	张会梅,杜军志,李省印,等(66)
---------------------------	-------------------

☆果园☆

“香悦”葡萄标准化栽培技术·····	黄重(68)
--------------------	--------

◆园林花卉◆

☆植物☆

于田县西伯利亚白刺播种育苗技术研究·····	玉苏甫·买买提,阿丝叶·阿不都力米提,尤努斯·居玛(71)
贵州片鳞苔亚属 Subgen. <i>Pedinolejeunea</i> 植物研究·····	谈洪英,熊源新,杨冰,等(75)
遮荫对斑叶堇菜和大叶铁线莲叶绿素荧光特性的影响·····	董彦娜,李连龙,郭思佳,等(79)
长春花抗疫病品种比较及遭受疫病危害后的生理响应·····	王伟,贺漫媚,倪建中,等(83)
锰(Mn)胁迫对紫萍的氧化损伤·····	张立芳,王敬华,施国新,等(89)
固体酸调配营养液对竹芋生长和地上部对养分吸收的影响·····	王男男,王殿武,陈延华,等(96)
屋顶绿化草坪草蒸散量与土壤水分阈值研究·····	宋玉飞,李海梅,刘霞,等(101)

☆景观☆

“多规合一”趋势下风景名胜管理问题研究·····	刘澜,唐晓岚,熊星(105)
--------------------------	----------------

◆生物技术◆

- 番茄 CCCH 型锌指蛋白基因 *SlC3H64* 和 *SlC3H65* 的特征与表达分析 许瑞瑞,曹翠宇(110)
- 西藏设施番茄晚疫病病原菌鉴定及生物学特性研究 相 栋,代万安,巩文峰,等(114)
- 四种露地菊再生体系的建立 李金童,吴雅妮,丁 兵,等(119)
- 杜鹃兰原球茎增殖培养条件研究 吴彦秋,吕 享,李小兰,等(124)

◆植物保护◆

- 山楂梨小食心虫发生动态及主要影响因素 张坤朋,王相宏,王景顺(129)
- 50%苯醚甲环唑·硫磺水分散粒剂对西瓜白粉病的田间防治效果 马雪莉,高龙银,赵京岚,等(132)
- 啶酰菌胺与吡唑醚菌酯混配对番茄叶霉病菌的联合毒力 赵建江,王文桥,马志强,等(135)

◆贮藏保鲜加工◆

- 微乳化壳聚糖可食用膜在水果保鲜中的应用 傅小伟,黄 斌(138)
- 超声波处理对野木瓜糖渍片贮藏性质的影响 张孝刚,唐 玲,曾 嵘,等(141)
- 保鲜液的制备及其对苹果贮藏期间多酚含量的影响 付瑞敏,邢文会,常慧萍,等(146)
- 终止发酵法酿造“赤霞珠”低醇甜红葡萄酒的工艺 曹芳玲(152)
- LED 白光照射对黄瓜贮藏过程中品质的影响 范林林,左进华,史君彦,等(156)

◆食 用 菌◆

- 八个双孢菇品种比较试验 冯自洋,李守勉,李 明,等(160)
- 氮源和无机盐对蛹虫草子座产量及虫草素和腺苷的影响 简利茹,杜双田(163)

◆中 草 药◆

- 景天三七种子萌发特性研究 苏彦宾,刘鲁江,亓德明,等(168)

植物生长调节剂和蔗糖浓度对狼爪瓦松愈伤组织生物量及有效物质积累的影响

.....	张万博,朴炫春,杨帆,等(171)
一株乌天麻共生萌发菌培养条件的优化	程立君,李世辉,胡志芳,等(175)

◆新品种选育◆

番茄新品种“牟番1号”的选育	杨红丽,王子崇(178)
----------------------	--------------

◆资源与环境◆

秸秆覆盖还田对黄瓜土壤碳氮比和微生物的影响	胡云,李明,李登明,等(180)
设施富营养化土壤平衡施肥技术研究	刘聪,韩秉进,吴凤芝,等(184)
遵义市凤凰山土壤砾石与水分含量对苔藓植物多样性的影响	李德辉,刘忠英,马欣,等(188)
三种肥料增效剂复配对樱桃番茄生长和品质的影响	任毛飞,王吉庆,李宇,等(192)

◆专题综述◆

西芹冷链技术的研究现状	贾丽娥,刘升,段小明,等(195)
-------------------	-------------------

◆农业经纬◆

基于灰色关联分析的茯苓贸易研究	张平,郑志安,赵祖松颖,等(199)
-----------------------	--------------------

◆经验交流◆

广西塑料大棚彩椒套种包心芥菜安全高产栽培技术	吴星,赵虎,王萌,等(204)
山东地区黄秋葵间作苋菜高效栽培技术.....	刘桂丽(206)
香菇生产中毛霉的发生规律与防控措施.....	张宝军(208)
北方地区空心菜高效立体种植模式.....	李法君(210)

◆广告◆

种观食新品赚钱畅销	(65)
-----------------	------

NORTHERN HORTICULTURE

(Started in 1977, Half Monthly)

Total NO. 370, NO. 19(2016), The First Half of October

Contents

◆ Experimentation and Research ◆

- Genetic Inheritance Analysis on Melon Fruit Index in F₂ Generation CHEN Kenong, ZHANG Hongzhuo, YUAN Liwei, et al(1)
- Effect of Balanced Fertilization on the Yield and Quality of 'Tongxinyuanzao' Jujube on Dry Land in Ningxia WEI Tianjun, LI Baiyun, LI Hui(5)
- Effect of Different N Levels on Growth and Accumulation of N, P and K in Leaves of Chinese Cabbage 'Zaosu No. 5'
..... SHAO Yangfeng, LI Songhao, CHAI Weiguo(9)
- Effect of Different Nutrient Supply on Nitrogen, Phosphorus and Potassium Uptake in 'Chardonnay' Grape
..... MA Danyang, LI Shuangcen, HU Hongyuan, et al(13)
- Study on Reasonable Irrigation Water Amount on Wine Grape 'Cabernet Sauvignon' at Eastern Foot of Helan Mountain
..... LI Lei, WANG Rui, JI Lidong, et al(17)
- Influence of Sod Culture to Yield and Quality of Different Parts of Apple Tree Crown SHI Jin, LI Wensheng, ZHANG Junmiao(22)
- Effect of Element Deficiency on Growth of *Actinidia arguta* Seedling CHEN Xin, LIU Dan, LI Ranhong, et al(27)

◆ Research Notes ◆

- Characteristics Survey of Wild Fruit *Holboellia coriacea* LI Jie, FENG Yuehua, LUO Rui, et al(31)
- Effect of GA₃ Treatment on Quality and Coloration of 'Lihongbao' Grape Berry ZHAO Ronghua, BAI Shijian, LI Chao, et al(35)
- Effect of Light Intensity and Growth Space in Tendril Asparagus Bean PANG Shumin, FANG Guanna(39)
- Growth and Development Rhythm of Wild *Actinidia chinensis* var. *deliciosa* Fruit WANG Chuanming, HAN Zhongyao, LIU Chenggui, et al(42)
- Effect of Substrate Seedling and Soil Cultivating Seedling on Growth Characteristics of Strawberry ZHENG Jianchao(46)
- Oil Content and Composition Analysis of Fatty Acids in the Kernel of Five Stone Fruit Trees XUE Xiping, CHEN Minke(49)

◆ Facilities Horticulture ◆

- Simulation Study on the Effect of Greenhouse Azimuth on Light Environment of Sunlight Greenhouse YANG Wenxiong, MA Chengwei(52)
- Effect of Continuous Light and Intermittent Light With Different Frequencies of LED on the Growth and Photosynthesis of Cucumber Seedlings
..... WANG Dafei, YANG Zhenchao, CAI Hua, et al(55)
- Effect of Different Light Qualities on the Seed Germination, Seedling Growth and Cold Resistance of Cucumber
..... LIU Weicheng, WEI Feng, HAN Zeyu, et al(59)
- Cultivation Technique of Facility Peach for Postpone Culture in the High-cold District ZHAO Baolong, SUN Junli, WANG Xiaodong, et al(63)

◆ Garden Design and Garden Plants ◆

- The *Nitraria sibirica* Seedling Techniques Research in Keriya County Yusup MAMAT, Asiya ABDULIMIT, Yunus JUMA(71)
- Research on Subgen. *Pedinolejeunea* (Lejeuneaceae, Marchantiophyta) in Guizhou TAN Hongying, XIONG Yuanxin, YANG Bing, et al(75)
- Effect of Shading on Chlorophyll Fluorescence Characteristics of *Viola variegata* and *Clematis heracleifolia*
..... DONG Yanna, LI Lianlong, GUO Sijia, et al(79)
- Physiological Responses of Varieties of *Catharanthus roseus* G. Don After Infected With *Phytophthora nicotiana*
..... WANG Wei, HE Manmei, NI Jianzhong, et al(83)
- The Oxidative Damage of *Spirodela polyrhiza* Under Mn Stress ZHANG Lifang, WANG Jinghua, SHI Guoxin, et al(89)
- Effect of Growth and Nutrient Uptake of *Maranta arundinacea* L. With Nutrient Solution and Solid Acids
..... WANG Nannan, WANG Dianwu, CHEN Yanhua, et al(96)
- Research on Evapotranspiration and Soil Moisture Threshold of Roof Greening Turf-grass SONG Yufei, LI Haimei, LIU Xia, et al(101)
- Research on Managing Problems of Scenic Attraction Areas Under the Trend of 'Multi-plan Integration' LIU Lan, TANG Xiaolan, XIONG Xing(105)

◆ Biotechnology ◆

- Characteristics and Expression Analysis of Two CCCH Zinc Finger Genes *SIC3H64* and *SIC3H65* in Tomato XU Ruirui, CAO Cuiyu(110)
- Research on the Identification and Biological Characteristics of Late Blight Pathogen of Greenhouse Tomato in Tibet
..... XIANG Dong, DAI Wan'an, GONG Wenfeng, et al(114)
- Establishment of Plant Regeneration System for Four *Chrysanthemum morifolium* LI Jintong, WU Yani, DING Bing, et al(119)
- Study on Culture Conditions of Protocorms Proliferation of *Cremastra appendiculata* WU Yanqiu, LYU Xiang, LI Xiaolan, et al(124)

◆ Plant Protection ◆

- Occurrence Dynamic and Main Influence Factors of *Grapholita molesta* in Hawthorn ZHANG Kunpeng, WANG Xianghong, WANG Jingshun(129)
- Field Control Efficiency of 50% Difenoconazole-sulfur Water Dispersible Granule on Watermelon Powdery Mildew
..... MA Xueli, GAO Longyin, ZHAO Jinglan, et al(132)
- Common Toxicity of Boscalid and Pyraclostrobin Against *Fulvia fulva* ZHAO Jianjiang, WANG Wenqiao, MA Zhiqiang, et al(135)

◆ Storage and Processing ◆

- Application of Microemulsion of Edible Chitosan Coating in Fruits Freshness FU Xiaowei, HUANG Bin(138)
- Effect of Ultrasonic Treatment on Storage Properties of Sugaring Slices of *Starntonia chinensis* ZHANG Xiaogang, TANG Ling, ZENG Rong, et al(141)
- Preparation of Fresh-keeping Agents and Its Effect on Apple Polyphenols Content During Postharvest Storage
..... FU Ruimin, XING Wenhui, CHANG Huiping, et al(146)
- Technology of Brewing Low Alcohol Sweet Wine With 'Cabernet Sauvignon' Based on Termination of Fermentation CAO Fangling(152)
- Effect of LED on Storage Quality of Postharvest Cucumber FAN Linlin, ZUO Jinhua, SHI Junyan, et al(156)

◆ Edible Fungi ◆

- Comparison Test of Eight *Agaricus bisporus* Varieties FENG Ziyang, LI Shoumian, LI Ming, et al(160)
- Effect of Nitrogen and Inorganic Salt on Production of Stroma, Cordycepin and Adenosine in *Cordyceps militaris* JIAN Liru, DU Shuangtian(163)

◆ Chinese Traditional Medicine ◆

- Study on Seed Germination Characteristics of *Sedum aizoon* SU Yanbin, LIU Lujiang, QI Deming, et al(168)
- Effect of Plant Growth Regulators and Sucrose Concentrations on the Proliferation, Growth and Effective Compounds Content of *Orostachys cartilaginosa* Callus
..... ZHANG Wanbo, PIAO Xuanchun, YANG Fan, et al(171)
- Optimization of Cultivation Condition in *Gastrodia elata* Seed-germinating Strain CHENG Lijun, LI Shihui, HU Zhifang, et al(175)

◆ New Variety Breeding ◆

- Breeding of a New Tomato 'Mufan No. 1' YANG Hongli, WANG Zichong(178)

◆ Resource and Environment ◆

- Effect of Straw Coverage on C/N and Microorganisms of Cucumber Soil HU Yun, LI Ming, LI Dengming, et al(180)
- Study on Balance Fertilization in Nutrition Richness Greenhouse Soil LIU Cong, HAN Bingjin, WU Fengzhi, et al(184)
- Effect of Bryophytes Diversity by Soil Gravel and Moisture Content in Fenghuangshan National Forest Park of Zunyi Town, Guizhou Province
..... LI Dehui, LIU Zhongying, MA Xin, et al(188)
- Effect of Mixed Application of Three Fertilizer Synergists on Growth and Quality of Cherry Tomato REN Maofei, WANG Jiqing, LI Yu, et al(192)

◆ Summarize ◆

- Research Status on Cold Chain Technology of Celery JIA Li'e, LIU Sheng, DUAN Xiaoming, et al(195)

◆ Agricultural Relevant Issues ◆

- Study on the Trade of *Poria cocos* Based on Grey Correlation Analysis ZHANG Ping, ZHENG Zhi'an, ZHAO Zusongying, et al(199)

◆ Experience Exchange ◆

- Occurrence Regularity and Prevention-control Measures of *Mucor* on Production of *Lentinus edodes* ZHANG Baojun(208)

《北方园艺》第五届编委会

主任委员: 李文华

副主任委员: 李景富 秦智伟 李天来 陈青云 杨文月 陶可全 刘 德 耿月伟 闫文义
委 员: (以姓氏笔画为序)

于泽源 王秀峰 王清章 王傲雪 车代弟 冯国军 巩振辉 毕洪文 朱延明
刘 德 刘延杰 刘洪章 齐红岩 闫文义 许 勇 许修宏 李 敏 李文华
李天来 李玉花 李景富 杨文月 吴凤芝 邹志荣 陈立新 陈青云 陈宗礼
赵尊练 秦智伟 耿月伟 徐启江 栾非时 高庆玉 高智谋 陶可全 黄家凤
崔继哲 韩贵清

编辑出版中心

主 任: 毕洪文
主 编: 毕洪文
编 辑: 王 冠 李晓晨 张海燕 李文枫
田志革 王 超 李 想

副 主 任: 苗玉新 黄峰华
责 任 编 辑: 黄峰华
广 告 发 行: 白晓琳

《北方园艺》

BEIFANG YUANYI

(半月刊, 1977年创刊)

2016年第19期(10月上), 总第370期

NORTHERN HORTICULTURE

(Half Monthly, Started in 1977)

No 19, 2016 (The First Half of October), Total No. 370

主管单位 黑龙江省农业科学院

主办单位 黑龙江省农业科学院
黑龙江省园艺学会

编辑出版 《北方园艺》编辑部

地 址 哈尔滨市南岗区学府路368号

邮政编码 150086

电 话 0451-86674276

电子信箱 bfyybjb@163.com

网 址 www.haasep.cn

印 刷 天元铸成实业有限公司

国内发行 哈尔滨市邮局

国外发行 中国国际图书贸易总公司
(北京399信箱)

广告经营许可证号 2301070000009

出版日期 每月15、30日

Competent Authority Heilongjiang Academy of Agricultural Sciences

Sponsored by Horticulture Society of Heilongjiang Province;
Heilongjiang Academy of Agricultural Sciences

Edited and Published by Editorial Department of Northern Horticulture

Address 368 Xuefu Road, Nangang District, Harbin, P.R. of China

Postalcode 150086

Tel 0451-86674276

E-mail bfyybjb@163.com

Web www.haasep.cn

Printed by Tianyuan Zhucheng Industrial Co. Ltd.

Domestic Distributed by Harbin Post Office

Domestic Distributing Code 14-150

Oversea Distributed by International Book Trading Corporation P.O.
Box 399 Beijing, P.R. of China

Oversea Distributing Code BM 5011

Advertising Business Permit Number 2301070000009

Publishing Date Monthly 15th, 30th

Price RBM 15 yuan

国内邮发代号:14-150

国内统一连续出版物号: CN 23-1247/S

国外邮发代号:BM 5011

定 价:15.00元

ISSN 1001-0009

