

ISSN 1001-4829

CN 51-1213/S

CODEN XNXUEF



中文核心期刊

中国科技核心期刊

中国农业核心期刊

RCCSE中国核心学术期刊

中国科学引文数据库库源期刊

西南农业学报

SOUTHWEST CHINA JOURNAL OF AGRICULTURAL SCIENCES

2016

第29卷 第8期

Vol.29 No.8

ISSN 1001-4829



9 771001 482164

0.8>

《西南农业学报》编辑委员会

目 次

作物遗传育种·种质资源

- 1761 云南软米直链淀粉含量及蛋白质积累动态研究 姜琼瑶,李华慧,黄平,朱斌,班洪兴,奎丽梅,陈忆昆,张云,涂建
1766 水稻粒形性状 QTL 定位分析 彭强,张大双,吴健强,张玉珊,王际凤,黄培英,朱速松
1771 高能混合粒子场处理小麦并储藏的辐照效应分析 蒋云,张洁,郭元林,尹春蓉,宣朴
1776 配子选择法对玉米自交系 QB506 的遗传改良效果 陈建军,陈泽辉,郭向阳,王安贵,祝云芳,兰琴英,王安康,刘鹏飞
1782 转抗旱基因 *InrE* 玉米材料的获得及抗性鉴定 余桂容,张维,杜文平,宋军,陈谦,徐利远
1787 PEG 胁迫下 17 份木薯种质苗期抗旱性综合评价及指标筛选 魏云霞,王晓庆,黄洁
1793 茶树 *CsSMT* 基因的单核苷酸多态性及其表达 刘声传,鄢东海,周雪,莫雪,胡依然,魏杰,周富裕,周玉锋
1798 新疆陆地棉品种资源的主成分分析和聚类分析 董承光,王娟,周小凤,马晓梅,李生秀,余渝,李保成
1806 乌柏硬脂酰-酰基载体蛋白脱饱和酶基因的克隆及表达 牛蓓,徐莺,宋君,郭晓恒,符佳,邹亮,陈放,高孝锦,郭静

生理生化

- 1813 壮秧剂施用对水稻秧苗形态及生理特征的影响 雷舜,刘少君,范亚霖,唐湘如
1818 干旱胁迫对绵恢 725 系列品种芽苗期生理的影响 敬银钦,李亚男,张杰,范永义,陈敬,蒋芬,胡运高
1824 新疆 5 种果树叶片化学成分分析和营养价值综合评价 孙雅丽,孙慧芳,古丽江·许库尔汗,虎海防
1828 保水剂对海滨雀稗抗旱性的影响 黄慧青,周林涛,安勤颖,濮阳雪华
1834 不同温度对总状绿绒蒿幼苗生理特性的影响 王盖,区智,屈燕
1839 不同磷水平对棉花内源激素的影响 陈波浪,罗佳,蒋平安
1844 留叶数和成熟度对雪茄烟叶品质的影响 刘雷,江鸿,曾代龙,李爱军,范静苑,闫双全,赵奕熹
1849 干巴菌废弃料酶水解优化条件及黄酮、多糖含量的研究 刘品华,林慧,刘明研,余丽芳,杨芬

植物保护·土壤肥料

- 1854 灰飞虱携带的水稻条纹病毒 *NS2* 和 *NS3* 基因的分子变异 任春梅,程兆榜,杨柳,缪倩,周益军
1864 番石榴实蝇成虫日活动规律及其危害寄主种类调查 闫振华,刘娜,唐国文,王文心,李林莉,肖梅,陶攻,陈国华
1869 黄瓜霜霉病菌对甲霜灵的抗药性 祝海娟,刘大伟,张艳菊,白玲玲,杨佳乐
1875 牛筋草对百草枯抗性水平初探 沈雪峰,胡芳,陈勇,李颖慧,韩承畴
1879 功夫菊酯高效降解菌的筛选、鉴定及降解特性研究 王彦辉,杜良伟,李红红,封国君,罗韬
1884 广西桉树溃疡病病原菌鉴定 廖旺姣,邹东霞,黄乃秀,吴耀军
1889 烟草根黑腐病拮抗木霉菌株 TB72 的鉴定及抑菌作用 易龙,肖崇刚
1894 肥料和农药协同作用防治烟草根结线虫病研究 梁兵,黄坤,李宏光,王全明,孙曙华,白章信,胡承孝
1899 漂浮烟苗饲养烟蚜及烟蚜茧蜂研究(Ⅱ)——烟苗生长时期与接蚜量对繁蚜量的影响 李宏光,刘春明,梁兵,阙劲松,黄坤,吕娅维,王超,吴伟
1903 氮肥用量对四川紫色丘陵区水稻氮素吸收及土壤氮素表观平衡的影响 罗付香,林超文,朱永群,姚莉,张建华,王谢
1908 油菜秸秆翻埋还田对水稻秧苗生长及土壤性状的影响 黄晶,王学春,王红妮,任品安,陶诗顺
1913 热带砖红壤 Cd-PAHs 复合污染对小白菜生物量和营养元素的影响 曹启民,王华,王永鹏,卓旺爵,张永北,刘志崴

- 1918 滨海盐碱环境下盐肥耦合对续随子荧光特性及土壤微生物的影响 刘冲,王茂文,邢锦城,丁海荣,朱小梅,赵宝泉,董静,洪立洲
- 1924 泸州烟区土壤有机质和全氮空间变异特征及其影响因素 肖怡,李珊,李启权,王昌全,李斌,余亮志
- 1932 龙岩市植烟土壤主要速效养分的空间变异研究 刘欢,刘娜,曾文龙,蒋代兵,熊德中
- 1936 海拔高度大尺度变化对土壤跳虫群落的影响 王群,武崎,刘兴良,张荣芝,吴鹏飞
- 1943 云南省有机肥中重金属元素含量分析 吴玉萍,孔光辉,林小峰,刘旭波,夏振远
- 1947 草木灰对单一与复合污染土壤中铜、铅和铬的钝化 陈杰,张晶,宋靖珂,夏鹏,王学江

园艺·食品加工

- 1952 广西香蕉种质资源的 SSR 分析 孙嘉曼,尹玲,张进忠,韦绍龙,李朝生,刘金成,卢江
- 1958 基于叶形态学的枇杷小种子植株遗传多样性研究 陶炼,谢红江,杨文渊,王永清,潘翠萍,涂美艳,李婧,张耀勋
- 1962 不同枸杞品种(系)需冷量及需热量的初步研究 戴国礼,张波,秦星,焦恩宁,何昕孺
- 1967 蝴蝶兰花径与其他重要数量性状的相关及通径分析 何荆州,黄昌艳,邓杰玲,闫海霞,王晓国,满若君,卜朝阳
- 1973 基质养分添加量对黄瓜穴盘苗成苗质量的影响 张志刚,董春娟,台连丽,尚庆茂
- 1977 豆豆的组织培养与快繁技术研究 闫海霞,蒋月喜,王晓国,何荆州,黄昌艳,邓杰玲,卜朝阳
- 1982 一株铁皮石斛组织培养污染内生细菌的分离与鉴定 尹利方,陈泽斌,夏体渊,耿开友,赵凤,靳松,李静雯,牛燕芬
- 1987 厦门市常见园林树种滞尘效应及生态特性研究 王亚军,郁珊珊
- 1993 SPME-GC-MS 测定 4 种云南茶的香气成分 伍岗,夏锐,张艳梅,梁家彬,李梅,浦绍柳

畜牧·水产

- 1998 西藏牦牛 *IGF2* 基因内含子 8 遗传多态性及其遗传效应分析 汪琦,柴志欣,钟金城
- 2004 IHHNV 编码蛋白酵母双杂交诱饵载体的构建及自激活研究 彭敏,苏绍萍,陈秀荔,杨春玲,朱威霖,王建平,曾地刚,李咏梅,赵永贞,陈晓汉

SOUTHWEST CHINA JOURNAL OF AGRICULTURAL SCIENCES
Vol. 29 No. 8 2016

Contents

CROP GENETICS & BREEDING · GERMPLASM RESOURCES

- 1761 Study on Accumulation Dynamic of Amylose and Protein of Soft Rice (*indica*) in Yunnan Province CU Qiong-yao, et al.
1766 QTL Analysis of Grain Shape Trait of Rice PENG Qiang, et al.
1771 Mutagenic Effects of High Energy Mixed Particles Irradiation on Wheat and Its Storage JIANG Yun, et al.
1776 Genetic Improvement Effects of Maize Inbred Line QB506 by Gamete Selection Method CHEN Jian-jun, et al.
1782 Transgenic Drought-resistant Gene *IrxE* Maize Material Obtaining and Resistance Identification YU Gui-rong, et al.
1787 Comprehensive Evaluation of Drought Resistance and Screening of Indices of 17 Cassava
 Germplasms under PEG Stress at Seedling Stage WEI Yun-xia, et al.
1793 Single Nucleotide Polymorphism and Expression Analysis of *CsSMT* Gene in Tea Plant LIU Sheng-chuan, et al.
1798 Clustering and Principal Components Analysis of Xinjiang Upland Cotton Variety Resources (*Gossypium hirsutum* L.) DONG Cheng-guang, et al.
1806 Cloning and Expression of Stearyl-acyl Carrier Protein Desaturase Gene from *Sapium sebiferum* NIU Bei, et al.

PHYSIOLOGY

- 1813 Effects of Seedling-strengthening Agent on Morphological and Physiological Characteristics of Rice Seedlings LEI Shun, et al.
1818 Effects of Drought Stress on Physiological Effects of Mianhui 725 Series in Germination Stage and Seedling Stage JING Yin-qin, et al.
1824 Chemical Compositions Analysis and Nutritional Value Comprehensive Evaluation of 5 Fruit Varieties in Xinjiang SUN Ya-li, et al.
1828 Effects of Super Absorbent Polymers on Drought Resistance of *Paspalum vaginatum* HUANG Hui-qing, et al.
1834 Effect of Different Temperatures on Physiological Traits of *Meconopsis racemosa* Seedlings WANG Gai, et al.
1839 Effects of Different Phosphorus Concentration on Endogenous Hormones of Cotton CHEN Bo-lang, et al.
1844 Effects of Leaf Number and Harvest Maturity on Quality of Cigar Tobacco Leaves LIU Lei, et al.
1849 Enzymatic Hydrolysis of Waste Materials from *Sparassia Thelephora Ganbjun* and Content of Flavonoids/ Polysaccharides LIU Pin-hua, et al.

PLANT PROTECTION · SOIL FERTILIZER

- 1854 Molecular Variability of *NS2* and *NS3* Genes from Rice Stripe Virus in *Laodelphax striatellus* REN Chun-mei, et al.
1864 Daily Activity and Their Host Species Survey of Guava Fruit Fly YAN Zhen-hua, et al.
1869 Study on Resistance of *Pseudoperonospora cubensis* to Metalaxyl ZHU Hai-juan, et al.
1875 Preliminary Study on Resistance Level of *Eleusine indica* to Paraquat SHEN Xue-feng, et al.
1879 Screening, Identification and Characteristics of Lambda-cyhalothrin Degrading Fungus WANG Yan-hui, et al.
1884 Identification of Pathogenic Spot Canker on Stem of *Eucalyptus* in Guangxi LIAO Wang-jiao, et al.
1889 Identification and Inhibition Effect of Antagonistic *Trichoderma* Strain TB72 against *Thielaviopsis basicola* YI Long, et al.
1894 Controlling Tobacco Root-knot Nematodes by Fertilizer and Pesticide Synergy LIANG Bing, et al.
1899 Using Floating Tobacco Seedling Technology to Reproduce *Myzus persicae* and *Aphidius gifuensis* (II)——Effect of Tobacco
 Seedling Developing Period during Inoculating Aphid and Inoculating Aphid Numbers on Rearing Aphid LI Hong-guang, et al.
1903 Effects of Nitrogen Fertilizer Amount on Rice Nitrogen Uptake and Soil Nitrogen Apparent
 Balance of Sichuan Purple Hilly Region LUO Fu-xiang, et al.

1908	Effect of Rape Residue Incorporation on Rice Seedling Growth and Soil Properties	HUANG Jing, et al.
1913	Effects of Cd-PAHs Combined Pollution on Biomass and Nutrient Elements of Pakchoi Cabbage in Tropical Latosol	CAO Qi-min, et al.
1918	Coupling Effect of Salt and Fertilizer Application on Chlorophyll Fluorescence of <i>Euphorbia lathyris</i> . L. and Microbiological Characteristics of Soils in Coastal Saline Soil	LIU Chong, et al.
1924	Spatial Variability of Soil Organic Matter and Total Nitrogen in Tobacco Production Area of Luzhou and Its Influencing Factors	XIAO Yi, et al.
1932	Spatial Analysis of Mainly Available Nutrients for Tobacco-plating Soil in Longyan City	LIU Huan, et al.
1936	Effects of Altitudinal Gradient at Large Scale Variations on Soil Collembola	WANG Qun, et al.
1943	Content Analysis of Heavy Metals in Organic Fertilizer from Yunnan Farming Areas	WU Yu-ping, et al.
1947	Immobilization of Heavy Metals in Single and Multiple Contaminated Soils with Plant Ash	CHEN Jie, et al.

HORTICULTURE · FOOD PROCESSING

1952	SSR Analysis of Banana Cultivars/Accessions in Guangxi	SUN Jia-man, et al.
1958	Study on Diversity of Leaf Morphological Traits of Plants Regenerated from ' Miniature Seeds ' in Loquat	TAO Lian, et al.
1962	Preliminary Study on Chilling and Heat Requirements of Major Wolfberry Cultivars	DAI Guo-li, et al.
1967	Correlation and Path Analysis of Flower Diameter with Other Quantitative Characters in <i>Phalaenopsis</i>	HE Jing-zhou, et al.
1973	Effects of Nutrient Addition in Substrate on Fertilizer Use Efficiency of Cucumber Plug Seedlings	ZHANG Zhi-gang, et al.
1977	Study on Tissue Culture and Rapid Propagation of <i>Clitoria ternatea</i> L.	YAN Hai-xia, et al.
1982	Isolation and Identification of Pollution Endophytic Bacteria during Tissue Culture of <i>Dendrobium candidum</i>	YIN Li-fang, et al.
1987	Study on Dust Retention Capacity and Ecological Characteristics of Different Green Plants in Xiamen City	WANG Ya-jun, et al.
1993	Analysis of Aromatic Components in Four Kinds of Yunnan Tea by SPME-GC/MS	WU Gang, et al.

ANIMAL SCIENCE · FISHERY

1998	Genetic Polymorphisms and Genetic Effects of <i>IGF2</i> Gene Intron 8 in Tibet Yak	WANG Qi, et al.
2004	Construction and Identification of Yeast Two Hybrid Bait Vector for Screening of IHHNV Encoding Protein	PENG Min, et al.

《西南农业学报》编辑委员会

主编 (Editor-in-chief) : 李跃建

副主编 (Associate editors-in-chief) : (以汉语拼音首字母为序, 有*者为常务副主编)

白先进 李宝海 刘剑飞 刘作易 雷波* 唐开学

编委 (Members of the editorial board) :

白先进 参木友 陈彩虹 陈德寿 陈晓汉 高红卫 高立洪 顾明华 何永坤 黄宗洪 蒋志农
雷波 雷开荣 李宝海 李成云 李贤勇 李晓 李晓忠 李跃建 刘剑飞 刘作易 罗廷荣
覃荣 覃泽林 任光俊 粟剑 唐开学 田时炳 王家银 王云 魏蓉城 温国泉 吴伯志
杨华 余国东 余懋群 余遥 张晓春 曾秀丽 尼玛扎西

西南农业学报 (月刊)

Xinan Nongye Xuebao

2016年8月28日出版 (公开发行)

2016年第29卷第8期

Southwest China Journal of

Agricultural Sciences(Monthly)

Vol. 29 No. 8 2016

Published on Aug. 28, 2016

本刊已加入或入编“中国知网”、“万方数据—数字化期刊群”和“中国核心期刊(遴选)数据库”，作者著作权使用费与本刊稿酬一次性给付，不再另行发放。作者如不同意将文章加入或入编，投稿时敬请说明。

协办：四川省农作物育种攻关领导小组办公室

联系人：何希德

电 话：(028) 84504004

主 管：四川省农业厅
主 办：四川、云南、贵州、广西、西藏及
重庆市(区、市)农科院
编 辑 出 版：《西南农业学报》编辑部
编 辑 部 地 址：成都市锦江区净居寺路20号附101号
(邮编：610066 电话：028-84504192)
照 排：锦江区海林印务部
印 刷：成都市锦慧彩印有限公司
国 内 订 阅 发 行：四川省报刊发行局
国 外 订 阅 发 行：中国出版对外贸易总公司(北京782信箱)
投 稿 网 址：<http://xnnxyb.com>
中 国 标 准 刊 号：CN 51-1213/S ISSN 1001-4829 CODEN XNXUEF

Sponsored by Sichuan, Yunnan, Guizhou, Guangxi, Tibet and Chongqing Academies of Agri.Sci.
Edited and Published by Editorial Department of Southwest China Journal of Agri.Sci.
Address: 20-101, Jingjusi Road, Jinjiang District, Chengdu, Sichuan 610066, Tel: 028-84504192
Distributed by China Publish Foreign Trading Corporation(P.O.Box 782, Beijing, China)
E-mail: Jxuebao@sina.com
<http://xnnxyb.periodicals.net.cn/default.html>

2016

第29卷 第8期
Vol.29 No.8

万方数据

公开发行

邮发代号：62-152

国内订价：25.00元