ISSN 1001-4829 CN 51-1213/S CODEN XNXUEF



西南农业学报

SOUTHWEST CHINA JOURNAL OF AGRICULTURAL SCIENCES

2016 第29卷 第 3 期 Vol.29 No.3

ISSN 1001-4829



《西南农业学报》编辑委员会

西南农业学报 XINAN NONGYE XUEBAO

目 次

作物遗传育种·种质资源

469 川东南高温伏旱区杂交中稻组合的品质表现及产量与品质性状的关系 徐富贤,张 林,熊 洪,周兴兵,朱永川,蒋 鹏,刘 茂,郭晓艺

474 小麦骨干亲本及衍生后代对禾谷缢管蚜的抗性

魏会廷,李 俊,汤永禄,吴 春,向运佳,李朝苏,杨武云

479 广西主栽玉米品种苗期干旱胁迫及复水补偿效应研究

田树云,文仁来,何静丹,苏月贵,何雪银,苏义成,黄开健,张述宽

486 紫色甘薯渝紫薯7号黄烷酮3-羟化酶基因的克隆和序列分析

黄元射,舒 田,毛景欣,陈 敏

491 基于 SSR 标记贵州古茶树资源的遗传多样性分析及指纹图谱构建

郭 燕,刘声传,曹 雨,赵华富,魏 杰,鄢东海,周富裕

498 梁山慈竹 UCP 基因克隆与生物信息学分析

王一伊,向秋燕,阎文昭,蒲志刚,邢小军,刘东阳,冯俊彦

廖 倩,黄 艳,胡尚连,曹 颖,卢学琴,徐 刚

503 利用 TRAP 标记分析 83 份烟草种质资源遗传多样性及遗传演化关系

耕作栽培・生理生化

511 不同播期对广西春玉米生长特性及产量的影响 钟昌松,张 玉,吕巨智,闫飞燕,程伟东,石达金,范继征

520 冷处理后水稻苗期差异蛋白的表达与分析 周国华,刘 涛,张雪梅,张群宇,李晓芬

525 木薯块根采后主要耐贮性生化指标的分析 韦丽君,盘 欢,李 军,卢赛清,俞奔驰,郑 华,雷开文

531 17β-雌二醇胁迫对青菜种子萌发和幼苗生理特性的影响 魏瑞成,龚 兰,张莉莉,陈 明,邵明诚,王 冉

536 辣椒幼苗形态及生理特性对捞害胁迫的响应 郑佳秋,郭 军,梅 燚,吴永成,祖艳侠,王薇薇

541 特异资源绿天麻和乌天麻光合色素合成特性研究 狐小斌,张智慧,季鹏章,王 丽,简帮丽,王家金,朱新焰,刘大会,石亚娜

545 凤凰水仙和武夷水仙茶挥发成分的分析与比较 朱 慧,陈树思,周春娟,曾令达,庄东红

552 印楝树皮多酚的提取工艺研究

王有琼,马李一,张重权,段琼芬

植物保护・土壌肥料

558 杂草稻与栽培稻的地下营养竞争

吳云艳

562 壳聚糖载体橡胶树死皮防治药剂的防效研究

胡义钰,孙 亮,袁 坤,冯成天,王真辉

566 凝胶渗透色谱 - 分散固相萃取 - 气相色谱法测定大豆中的多种除草剂

邱世婷,侯 雪,杨晓凤,韩 梅,刘 炜,易盛国

570 海南生姜青枯病菌对农用链霉素的敏感性测定

赵志祥,严婉荣,陈 圆,陈绵才,肖 敏,肖形斌 赵玳琳,赵兴丽,卯婷婷,张敬泽,蔡 磊,陶 刚

574 草莓根部侵染草莓炭疽菌的致病动态变化过程

聂 俊, 史亮亮, 邱俊荣, 蓝华生, 詹愈忠, 陈建清, 刘雁飞

579 有机肥和化肥配施对抛栽水稻群体干物质生产和产量的影响

贾 东,卢晶晶,孙雅君,宋 双,杜 晗,韩 雷

584 氮肥不同运筹模式对水稻生产及氮肥利用率的影响

播期、施氦量和密度对南梗 9108 产量及其构成因素的影响

595 少耕覆盖与不同氮磷钾配比对马铃薯产量效益和养分利用的影响

尹 梅,刘自成,任齐燕,陈 华,陈检锋,付利波,王志远,洪丽芳,苏 帆

朱 镇,赵庆勇,张亚东,陈 涛,姚 姝,周丽慧,于 新,赵 凌,王才林

599 云南三七种植区土壤主要养分含量特征研究与评价

杜彩艳,张乃明,姜 蓉,汪 泰,刘 源

606 土壤热处理对太子参连作障碍的缓解作用

任永权,张国辉,周江菊

611 基于养分丰缺分级的蔗田土壤肥力主成分综合分析 刘少春,张跃彬,郭家文,刀静梅,李如丹,崔雄维,樊 仙,邓 军,高欣欣,方志存

期刊基本参数: CN51 ~ 1213/S * 1985 * m * A4 * 252 * zh * P * ¥ 20.00 * 1500 * 46 * 2016 - 03

590

618 喀斯特地区无籽刺梨产地土壤与植株的碳、氮和磷分布特征

张珍明,张家春,贺红早,刘盈盈

623 复混肥对三峡库区油桐生长及土壤化学性质的影响

万 盼, 孟祥江, 周 恺

崔志燕,阮 志,陈富彩,张 玲,郑璞帆,高 梅,金保锋,张立新

635 干热河谷冲沟不同部位土壤水分物理性质研究

郭 敏,熊东红,张宝军,张 素,杨 丹,徐 丽,陈廷明

641 黄土丘陵沟壑区机修梯田与坡地土壤呼吸特征研究

高希旺,张玉珍,马 涛,马景永,武鹏艳

647 武功山草甸土壤有效态微量元素与有机质和 pH 的关系

邓邦良,袁知洋,李真真,郭晓敏,张文元

651 川西南山区耕地土壤速效钾空间特征及影响因素分析

王永豪,王昌全,李启权,李 斌,余亮志,陈玉蓝,周应刚

园艺・食品加工・农业生态环境

658 '凯特'芒叶片养分周年动态变化规律

王艺蓉,李所清,陈茗杨,白亭玉,林 电

662 应用电导率法和 Logistic 方程测定杨桃枝条抗寒性的研究

任 惠,王小娟,刘业强,苏伟强

668 库尔勒香梨不同生育期叶片氮素光谱诊断研究

杨婷婷,王雪梅,柴仲平,丁 阔,赵 静,马 鑫

674 矮壮素对夏黑葡萄果实品质的影响

陈国品,白先进,文仁德,李 玮,谢蜀豫,李洪艳,韩佳宇,盘丰平,陆正义,陈 立,曹慕明

678 牛大力植株生长特性及化学去蕾研究

潘颖南,张向军,庾韦花,蒙 平,邓海燕,李 婷

683 高压脉冲电场促进普洱生茶醇类香气的作用研究

罗斯瀚,陈 婷,何继燕,夏梓祥,彭 文,王白娟

689 滇池沉积物中好氧氨氧化细菌群落多样性研究

陈泽斌,李 冰,夏体渊,王定康,余 磊,任 稹,靳 松,何 蜂

畜牧・水产・资源昆虫

695 不同饲养模式对阿旺母绵羊体重及初配年龄的影响

宋天增,冯 静,鲍宇红,王 莉,曲广鹏,徐亚欧

699 溶藻弧菌外膜蛋白 OmpU 的克隆、表达条件优化及多克隆抗体制备

刘祥

706 中国盗蛛蜂亚科种类记述

蒋 力,陈国华,李 强,马 丽

综 述

713 农户橡胶树新品种采用行为及其影响因素分析——基于云南和海南植胶区调查

何长辉,刘锐金,莫业勇,黄华孙

SOUTHWEST CHINA JOURNAL OF AGRICULTURAL SCIENCES Vol. 29 No. 3 2016

Contents

CROP GENETICS &	RREEDING .	CERMPLASM	RESOURCES
LRUP TENED I LAS O	e bokanninini taka t	CHECKING LANGUA	KENOUKCEN

469	469 Rice Quality Status and Relationship between Grain Yield Traits and Quality Traits in Mid-season Hybrid Rice in High Temperature and Drought in			
	Summer Districts in the Eastern and Southern of Sichuan Province	XU Fu-xian, et al.		
474	Chinese Founder Parents and Derivatives for Resistance to Aphid (Rhopalosiphum padi)	WEI Hui-ting, et al.		
479	Effect of Guangzi Main Cultivated Maize Varieties under Drought Stress at Seedling Stage and Its Water Compensation	TIAN Shu-yun, et al.		
486	Molecular Cloning and Sequences Analysis of Flavanone 3-hydroxy Lase Gene from Yuzi7	HUANG Yuan-she, et al.		
491	91 Analysis of Genetic Diversity and Construction of Molecular Fingerprinting with SSR Markers for Ancient Tea Germplasms in Guizhou			
		GUO Yan, et al.		
498	Cloning and Bioinformatics Analysis of DfUGP Gene in Dendrocalamus farinosus	LIAO Qian, et al.		
503	Assessment of Genetic Diversity and Evolutionary Relatives of 83 Tobacco Germplasms Based on TRAP Markers	WANG Yi-yi, et al.		
ТП	LLAGE & CULTIVATION · PHYSIOLOGY			
511	Effects of Different Sowing Dates on Growth Characteristics and Yield of Spring Maize in Guangxi	ZHONG Cang-song, et al.		
516	Effect of Planting Density on Growth Properties of Rapeseed in Wheat/Silage Rape Multiple Cropping in Northern Xinjiang DUAN Zhen-yu, et al.			
520	Expression and Analysis of Differential Proteins of Rice Seedling after Cold Treatment	ZHOU Guo-hua, et al.		
525	Analysis of Main Biochemical Indicators for Storability of Cassava Tuberous Roots in Postharvest Storage Process	WEI Li-jun, et al.		
531	Effects of 17β-estradiol Stress on Seed Germination and Seedling Physiological Characteristics of Brassica chinensis	WEI Rui-cheng, et al.		
536	Response of Morphology and Physiological Characteristics of Hot Pepper Seedling to Waterlogging Stress	ZHENG Jia-qiu, et al.		
541	541 Study on Characteristics of Photosynthetic Pigment Synthesis of Castrodia elata Bl. f. viridis and G. elata Bl. f. glauca S. Chow			
		HU Xiao-bin, et al.		
545	Analysis and Comparison of Volatile Components in Fenghuang and Wuyi Shuixian Teas	ZHU Hui, et al.		
552	Extraction Technique of Polyphenol from Bark of Azadirachta indica	WANG You-qiong, et al.		
PLANT PROTECTION · SOIL FERTILIZER				
558	Research on Nutrient Competition between Root of Weedy Rice and that of Cultivated Rice	WU Yun-yan		
562	Control Effect of Chitosan Based Agents for Tapping Panel Dryness (TPD) in Hevea brasiliensis	HU Yi-yu, et al.		
566	Determination of Herbicide Residues in Soybean by Gel Permeation Chromatography (GPC) - Dispersive Solid Phase Ex	xtraction(d-SPE)-Gas		
	Chromatography	QIU Shi-ting, et al.		
570	Sensitivity Determination of Ginger Bacterial Wilts to Streptomycin	ZHAO Zhi-xiang, et al.		
574	Pathogenic Process of Strawberry Roots Infected by Colletotrichum fragariae	ZHAO Dai-lin, et al.		
579	Fig. 1. f O Many Andrews Continued with Chemical Functions on Day Motton Deduction and Viole of Picco	NIE Jun, et al.		
	Effects of Organic Manure Application Combined with Chemical Fertilizers on Dry Matter Production and Yield of Rice	,		
584	Effects of Nitrogen Application Strategies on Production and Fertilizer-N Use Efficiency of Rice	JID Dong, et al.		
584 590		· .		
	Effects of Nitrogen Application Strategies on Production and Fertilizer-N Use Efficiency of Rice	JID Dong, et al. ZHU Zhen, et al.		

599	Evaluation of Main Soil Nutrients Characteristics for Panax notoginseng Planting Area of Yunnan	DU Cai-yan, et al.		
606	Soil Heating Alleviating Soil Sickness of Pseudostellaria heterophylla in Continuous Cropping	REN Yong-quan, et al.		
611	Comprehensive Analysis of Main Components of Soil Fertility of Sugarcane Field Based on Soil Nutrient Grades	LIU Shao-chun, et al.		
618	Soil Fertility Feature of Rosa sterilis Producing Areas and Distribution Characteristics of Carbon, Nitrogen and Phosphorus in Different Rosa sterilis			
	Parts in Karst Region	ZHANG Zhen-ming, et al.		
623	Effects of Compound Fertilizer on Growth and Soil Nutrients in Tung Oil Tree Seedlings of Three Gorges Reservoir Area	WAN Pan, et al.		
628	Effects of Nitrogen Fertilizer Application on Nitrogen and Potassium Content, Photosynthetic Characteristics as well as Enzyme Activity of Carbon			
	and Nitrogen Metabolism and Yield and Quality of Flue-cured Tobacco in Southern Shaanxi Province	CUI Zhi-yan, et al.		
635	Study on Soil Water-physical Properties of Different Gully Positions in Dry-hot Valley	GUO Min, et al.		
641	Characteristics of Soil Respiration in Machine-building Terrace Field and Slope Land of Loess Hilly and Gully Region	GAO Xi-wang, et al.		
647	Relationship between Available Soil Microelement with Organic Matter and pH in Wugong Mountain Meadow	DENG Bang-liang, et al.		
651	Geostatistics and GIS Analysis of Soil Available Potassium in Mountainous Southwestern Sichuan	WANG Yong-hao, et al.		
HORTICULTURE \cdot FOOD PROCESSING \cdot AGRICULTURAL ECO-ENVIRONMENT				
658	Annual Variation of Mineral Nutrients in Leaves of 'Kaite' Mango	WANG Yi-rong, et al.		
662	Cold Resistance of Averrhoa carambola by Application of Electrical Conductivity and Logistic Equation	REN Hui, et al.		
668	Study of Spectral Analysis of Nitrogen Content of Kuerle Fragrant Pear Leaves at Different Growth Stages	YANG Ting-ting, et al.		
674	Effect of Chlorocholine Chloride (CCC) on Fruit Quality of Grape Variety 'Summer Black'	CHEN Guo-pin, et al.		
678	Study on Plant Growth Characteristics and Chemical Removal of Flower Bud of Millettia specisoa Champ.	PAN Ying-nan, et al.		
683	Effects of High-Voltage Pulsed Electric Field on Promoting Alcohols Aroma of Pu'er Raw Tea	LUO Si-han, et al.		
689	Community Diversity of Aerobic Ammonium-oxidizing Bacteria in Sediments of Dianchi Lake	CHEN Ze-bin, et al.		
ANIMAL SCIENCE · FISHERY · RESOURCE INSECT				
695	Effect of Different Feeding Systems on Liveweight Gain in Awang Tibetan Ewe and Age of First Breeding	SONG Tian-zeng, et al.		
699	Cloning, Optimization Expression Conditions and Polyclonal Antibody Preparation of Vibrio alginolyticus Outer Membran	e Protein OmpU		
		LIU Xiang		
706	Notes on Ceropalinae (Hymenoptera: Pompilidae) from China	JIANG Li, et al.		
REVIEW				

713 Analysis of Factors Affecting Smallholders' Adoption of New Rubber Tree Variety—Based on Survey of Yunnan and Hainan

HE Chang-hui, 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 田时炳 王家银 王 云 魏蓉城 温国泉 吴伯志 唐开学

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 3 月出版(公开发行) 2016年第29卷第 3 期 Southwest China Journal of Agricultural Sciences(Monthly) Vol. 29 No. 3 2016 Published on Mar. 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

管: 四川省农业厅

办:四川、云南、贵州、广西、西藏及

重庆省(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

(邮码: 610066)

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)

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

Distributed by China Publish Foreign Trading Corporation(P.O.Box 782,Beijing,China)

E-mail: Jxuebao@sina.com

http://xnnyxb.periodicals.net.cn/default.html

2016 ^{第29卷 第 3 期} Vol.29 No.3

公开发行

邮发代号: 62-152

国内订价: 25.00元