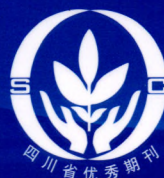


ISSN 1001-4829

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6期

Vol.29 No.6

ISSN 1001-4829



万方数据

《西南农业学报》编辑委员会

目次

作物遗传育种·种质资源

- 1241 水稻抗稻瘟病基因 *PI1* 的特异性分子标记开发及利用 刘开强,伍 豪,颜 群,王威豪,陈小林,周维永,李瑞芳,高利军,韦善富,邓国富  
1245 EMS 诱变对花生油酸、蛋白质含量的影响 侯 睿,岳福良,张小红,张相琼,张小军,李文均  
1250 室内水淹和田间模拟湿害对甘蓝型油菜耐湿性鉴定 李浩杰,柴 靓,蒲晓斌,张锦芳,蒋 俊,崔 成,张雪花,蒋梁材  
1257 马铃薯 cpDNA/mtDNA 多态性的多重 PCR 检测 李 瀚,唐 唯,郝大海,王 培,李灿辉

生理生化

- 1264 干旱胁迫对4份玉米自交系生理与光合特性的影响 覃永媛,温国泉,顾明华,王兵伟,郑加兴,覃嘉明,黄安霞,时成俏  
1270 紫红叶甘蓝型油菜叶片的色素变化及光合生理特性 唐 容,黄泽素,王 海,代文东,王少铭,李德珍  
1276 不同水分处理条件对油莎豆叶片生理指标及块茎品质的影响 朱俊岭,师 茜,王小红,田丽萍,薛 琳  
1281 不同植物生长调节剂对淮山药叶绿素及淀粉分解转化的影响 温国泉,农梦玲,刘永贤,吴永官  
1285 不同组培方法对香蕉组培苗假植阶段生理特征的影响 韦绍龙,杨 柳,韦莉萍,韦 弟,李朝生,李小泉,黄素梅,覃柳燕,田丹丹,张进忠,周 维,龙盛凤  
1291 川西高海拔不同生态区金冠苹果光合特性研究 杨文渊,谢红江,陶 炼,陈善波,涂美艳,陈 栋  
1296 不同枣树品种光合特性日变化测定与分析 刁 凯,李 宏,程 平,孙明森,张志刚,刘 帮  
1302  $\alpha$ -萜品烯和对伞花素在土荆芥诱导氧化损伤中的作用 王亚男,杨 军,朱晓焕,任秋蓉,张 红  
1307 鸡爪槭花粉活力与贮藏特性的研究 李倩中,荣立苹,李淑顺,唐 玲,闻 婧  
1311 氮对污水灌溉胶东卫矛生长及保护酶活性的影响 唐 燕,魏淑花

植物保护·土壤肥料

- 1315 四川水稻品种对纹枯病抗性的评价 罗霄凤,张重梅,张 梅,刘龙生,姬红丽,康晓慧,彭云良  
1323 甘蓝根肿病菌休眠孢子的生物学特性及侵染寄主的显微观察 杜 艳,刘郎洲,刘永锋,李建斌,乔俊卿,许凌宇  
1328 贵州地方种茶树根系丛枝菌根真菌的侵染特征 高秀兵,陈 娟,赵华富,李 珍,郭 灿,周富裕,王振轩,涂逸洋,周玉锋  
1336 四川省甘孜州9个不同地理蝗虫种群遗传多样性的 RAPD 分析 陈德西,封传红,何忠全,向运佳,胡荣平  
1343 1%蛇床子素水乳剂在烟叶中的残留消解动态 余 磊,王国书,刘 燕,夏 志  
1347 昆明市烟草主要虫害发生危害和消长动态研究 陈 静,徐 云,欧阳进,陶 琼,彭 云,钱发聪,李向东  
1353 不同地区灰霉病菌株对腐霉利的抗性测定及生理生化研究 王学贵,罗 维,冯晓菲,赵 芸,刘书华,陈诗瑶  
1358 不同施磷水平下甘薯干物质积累及其氮磷钾养分吸收特性 贾赵东,马佩勇,边小峰,郭小丁,谢一芝  
1366 腐熟堆肥与落叶堆中纤维素降解菌的筛选及其环境适应性分析 陈春岚,苏辉兰,黄广上,余炳锋,刘 艳,陈小香,李忠芳  
1371 长期间作咖啡对胶园土壤养分与土壤酶的影响 李 娟,林位夫,周立军  
1375 德阳旌阳区土壤有机质的空间变异性及其影响因素分析 马红菊,付梦洋,代天飞,李启权  
1381 烟气脱硫石膏对崇明滨海盐碱地理化性质及早稻生长的影响 贺 坤,李小平,章炫耀,张银宝

园艺·农业气象

- 1387 外源水杨酸处理对黄瓜幼苗根系糖代谢的调节作用 王晓黎,王 宏,沈学善,黄 涛,黄 钢  
1392 不同产区和等级昭通天麻的矿质元素含量特征分析 张公信,王家金,余显伦,田孟华,刘旭燕,田治蛟,郭友刚,刘大会

1398 利用组织培养成芋技术快速构建魔芋杂交品系的探索 马继琼,尹桂芳,孙道旺,杨 奕,王 玲

1404 猪苓微粉浸膏提取工艺条件优化 周青青,汪凯莎,陆 宽,刘建华,霍 昕,冯发进

1408 食用玫瑰花瓣可培养内生细菌的分离及多样性分析 陈泽斌,陈兴位,夏体渊,林 丽,任 慎,靳 松,华金珠,李健文

1414 百合小鳞茎抽薹的差异蛋白质组学分析 张 洁,游向阳,郭文杰,蔡宣梅,方少忠

1420 植物生长调节剂对野生毛葡萄保花保果及其果实品质的影响 陈少珍,蒋慧萍,吴代东,邹 瑜,刘盛武,林贵美,龙盛风,李 婷

1425 新疆阿图什木纳格葡萄叶片养分含量情况调查分析 张静文,岳朝阳,焦淑萍,张新平,努尔古丽,牛俊丽,杨 健

1430 多种葡萄品种胚与果实发育研究 徐鹏程,崔力文,孙 欣,吴伟民,朱旭东,房经贵

1437 云南干热河谷区不同促花措施对柠檬春花果的调控效应 刘红明,杜玉霞,李进学,张金智,李 晶,岳建强

1443 基于模糊综合评判法的荔枝酒感官评价研究 秦献泉,李鸿莉,李冬波,徐 宁,朱建华,黄凤珠,陆贵锋,彭宏祥

1448 不同环境因子种植云南重楼的差异性研究 苏泽春,王泽清,李兆光,徐中志,杨少华,陈 翠

1453 18个长寿花品种的引种栽培研究 余蓉培,卢珍红,周旭红,李 涵,曹 桦,莫锡君,蒋亚莲,田 敏,施自明,桂 敏

1459 四川水稻产量及其构成要素对不同生育期气候因子的响应分析 张玉芳,刘琰琰,赵 艺,郭 翔,周雪惠,王明田

1465 气候变化对徽成盆地冬小麦生育的影响 陈剑雄,吴新昌,吴朝霞,李 佳,高岩凤,刘 丽

1470 5龄热垦628材积量季节生长节律与气象因子关联度初步研究 祁栋灵,谢贵水,杨 川,吴志祥

畜牧·资源昆虫

1475 基于微卫星位点研究7个广西地方猪种的遗传关系 孙俊丽,张 冰,潘天彪,廖海洪,梁 旦,农素群,马青艳

1481 家蚕斑纹黄色特色育种素材创制及应用 张剑飞,杜周和,刘彬斌,陈义安,肖文福,吴建梅,刘俊凤

综 述

1488 青藏高原家畜疯草中毒发生规律及绿色防控技术体系 王保海,夏晨阳,王敬龙,赵宝玉,刘建枝,梁剑平,次仁多吉,郝宝成

---

---

## Contents

### CROP GENETICS & BREEDING · GERMPLASM RESOURCES

- 1241 Development and Application of Specific Marker of Blast Resistance Gene *Pil* in Rice LIU Kai-qiang, et al.  
1245 Effects of EMS Mutagenesis on Oleic Acid and Protein Content of Peanuts HOU Rui, et al.  
1250 Genetic Difference of Waterlogging Tolerance in *Brassica napus* L. after Submerging Seeds in Room and Plants in Field LI Hao-jie, et al.  
1257 Polymorphism Detection of cpDNA/mtDNA in Potato Based on Multiplex-PCR LI Han, et al.

### PHYSIOLOGY

- 1264 Effects of Drought Stress on Physiology and Photosynthesis in Four Maize Inbred Lines QIN Yong-ai, et al.  
1270 Pigment Changes and Photosynthetic Physiological Characteristics in Rapeseed With Purple-red Leaf TANG Rong, et al.  
1276 Effects of Different Moisture on Leaf Physiological Regulation Substances Content and Quality of *Cyperus esculentus* L. ZHU Jun-ling, et al.  
1281 Effects of Plant Growth Regulators( combination ) on Chlorophyll Content and Amylolysis of Yam WEN Guo-quan, et al.  
1285 Effect of Different Tissue Culture Methods on Physiological Characteristics of Banana Plantlets at Transplanting Stage WEI Shao-long, et al.  
1291 Research on Photosynthesis of 'Golden Delicious' Apple in 4 Different Ecological Zones of Western Sichuan Plateau YANG Wen-yuan, et al.  
1296 Diurnal Variations of Photosynthetic Characteristics of Different Jujube Varieties DIAO Kai, et al.  
1302 Effect of  $\alpha$ -terpinene and 1-isopropyl-4-methylbenzene on Oxidative Damage Induced by Volatile Oil from *Chenopodium ambrosioides* L.  
WANG Ya-nan, et al.  
1307 Research on Pollen Germination and Pollen Preservation Characteristics of *Acer palmatum* LI Qian-zhong, et al.  
1311 Effect of Nitrogen and Wastewater Irrigation on *Euonymus lautschovicus* Growth and Activities of Protective Enzymes TANG Yan, et al.

### PLANT PROTECTION · SOIL FERTILIZER

- 1315 Evaluation of Resistance to Sheath Blight in Rice Varieties Cultivated in Sichuan Province LUO Xiao-feng, et al.  
1323 Biological Characteristics of *Plasmodiophora brassicae* Resting Spore and Microscopic Observation during Pathogen Infection DU Yan, et al.  
1328 Colonization Characteristics of Arbuscular Mycorrhiza Fungi in Rhizosphere of Local Tea Trees in Guizhou GAO Xiu-bing, et al.  
1336 RAPD Analysis on Genetic Diversity of *Locust* of Nine Geographic Populations in Ganzi of Sichuan Province CHEN De-xi, et al.  
1343 Degradation Dynamics for Pesticide Residue of 1 % Osthol Emulsion Waters in Tobacco Leaves YU Lei, et al.  
1347 Study on Occurrence and Dynamics of Main Tobacco Pests in Kunming City CHEN Jing, et al.  
1353 Study on Resistance, Physiological and Biochemical Effects of Procymidone against Different Districts Strains of *Botrytis cinerea*  
WANG Xue-gui, et al.  
1358 Effects of Different Phosphorus Application Rates on Dry Matter Accumulation and N, P, K Absorption and Utilization in Sweetpotato  
JIA Zhao-dong, et al.  
1366 Compost and Leaf Litter Decomposition of Cellulose Degrading Bacteria Screening and Environmental Effects CHEN Chun-lan, et al.  
1371 Effects of Long-term Intercropping Coffee on Rubber Soil Nutrients and Soil Enzymes LI Juan, et al.  
1375 Spatial Variability of Soil Organic Matter and Its Influencing Factors in Jingyang District, Deyang City MA Hong-ju, et al.  
1381 Effect of Flue Gas Desulfurization Gypsum( FGD-gypsum ) on Physical and Chemical Properties of Soil and Growth of Upland Rice in Chongming  
Coastal Saline Soils HE Kun, et al.

**HORTICULTURE · AGRO-METEOROLOGY**

1387 Regulating Effect of Exogenous Salicylic Acid Treatment on Regulation of Carbohydrate Metabolism in *Cucumis sativus* Seedlings Roots  
WANG Xiao-li, et al.

1392 Characteristic Analysis on Mineral Elements Contents of Different Grades and Different Regions of Zhaotong Gastrodia Elata  
ZHANG Gong-xin, et al.

1398 Rapid Construction Way of *Amorphophallus konjac* Hybrid Strains Using Technology of Tissue Culture  
MA Ji-qiong, et al.

1404 Optimization of Extract Extraction Process from *Polyporus umbellatus* Micropowder  
ZHOU Qing-qing, et al.

1408 Study on Diversity of Cultivable Endophytic Bacteria Isolated from Petals of Edible Roses  
CHEN Ze-bin, et al.

1414 Differential Proteomic Analysis of Bolting of Lily Bulblet  
ZHANG Jie, et al.

1420 Effect of Plant Growth Regulators on Flower-fruit Retention and Fruit Quality of Hairy Grape  
CHEN Shao-zhen, et al.

1425 Investigation and Analysis of Nutrient Status of Munage Grapes Leaf in Atushi  
ZHANG Jing-wen, et al.

1430 Study on Embryo and Fruit Development in Grapes  
XU Peng-cheng, et al.

1437 Regulation Effect of Spring-flowering Lemon Treated with Flower Bud-inducing Methods in Dry-hot Valleys in Yunnan  
LIU Hong-ming, et al.

1443 Study on Litchi Wine Sensory Evaluation Based on Fuzzy Comprehensive Evaluation  
QIN Xian-quan, et al.

1448 Research on Differences between Different Environmental Factors of *Paris polyphylla* var. *yunnanensis* (Fr. )  
SU Ze-chun, et al.

1453 Study on Introduction and Cultivation for 18 Cultivars of *Kalanchoe blossfeldiana*  
YU Rong-pei, et al.

1459 Responses of Rice Yield and Its Components to Climatic Factors at Different Growth Stages in Sichuan  
ZHANG Yu-fang, et al.

1465 Effect of Climate Change on Growth and Yield of Winter Wheat in Huicheng Basin  
CHEN Jian-xiong, et al.

1470 Preliminary Analysis of Seasonal Growth Rhythm of Timber Volume for Timber/Latex Clone Reken 628 and Correlation with Meteorological Factors  
QI Dong-ling, et al.

**ANIMAL SCIENCE · RESOURCE INSECT**

1475 Genetion Diversity of Seven Guangxi Local Pig Breeds Assessed with Microsatellite Markers  
SUN Jun-li, et al.

1481 Create and Application of Silkworm Breeding Germplasm with Natural Color Cocoon & Sex-limited Marker Characteristics  
ZHANG Jian-fei, et al.

**REVIEW**

1488 Toxis Regular Rule of Livestock and Green Prevention and Control Technical System of Locoweed of Qinghai-Tibet Plateau  
WANG Bao-hai, et al.

# 《西南农业学报》编辑委员会

主 编 (Editor-in-chief): 李跃进

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 李跃进 刘剑飞 刘作易 罗廷荣  
覃 荣 覃泽林 任光俊 栗 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6月28日出版 (公开发刊)

2016年第29卷第6期

Southwest China Journal of

Agricultural Sciences(Monthly)

Vol. 29 No. 6 2016

Published on June 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)

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6期  
Vol.29 No.6

万方数据

公开发刊

邮发代号: 62-152

国内订价: 25.00元