



中文核心期刊
中国科技核心期刊
中国科学引文数据库(CSCD)来源期刊
RCCSE中国核心学术期刊(A)
中国农业核心期刊

ISSN 2095-1191
CODEN NNXAAB

南方农业学报

Nanfang Nongye Xuebao

第49卷 第12期 2018年12月

Journal of Southern Agriculture

Vol.49 No.12 Dec. 2018

12

2018



广西壮族自治区农业科学院 主办
Sponsored by Guangxi Academy of Agricultural Sciences

科学出版社 出版
Published by Science Press

南方农业学报
Nanfang Nongye Xuebao

第49卷 第12期 2018年12月

目次

作物遗传育种·种质资源·分子生物学

- 2349 基于SRAP分子标记的贵州5种忍冬属药用植物遗传多样性分析
2356 41份非洲地区和我 国湖北蚕豆种质资源产量性状的鉴定与评价
2364 基于*psbA-trnH*和rDNA ITS序列的不同地理居群巴戟天聚类分析
2371 金针菇菌株农艺性状评价及遗传多样性分析
- 潘绿昌,赵 致,何 云,李园园,
刘红昌,俸婷婷,周 英
吕春雨,廖芳丽,陈宏伟,李 莉,
万正煌,朱珍珍,沙爱华,焦春海
许子欣,冉志芳,杨小彤,郝庆秀,
余 意,周 洁,郭兰萍
杨和川,谭一罗,苏文英,秦裕营,
马 腾,周振玲,浦汉春

生理生化·土壤肥料·农业生态环境

- 2379 植物抗镉内生菌筛选及其对小麦幼苗耐镉能力的影响
2387 基于逐步回归模型的连作植烟土壤化学性状和酶活性关系分析
2394 除草剂残留对菜用黄麻幼苗生理特性的影响
2403 水旱轮作条件下花生品种筛选及土壤特性变化分析
2410 两种植物生长延缓剂对主干形核桃光合荧光日变化的影响
2419 水涝胁迫下冬瓜幼苗的形态结构及生理响应差异分析
- 刘军生,解修超,罗阳兰,邓百万,
曹乃馨,贾 娇
白羽祥,蔺忠龙,邓小鹏,徐照丽,
杨成翠,史普酉,杨焕文,王 戈
侯文焕,赵艳红,唐兴富,廖小芳,
劳赏业,李初英
高忠奎,蒋 菁,唐秀梅,刘 菁,
钟瑞春,韩柱强,熊发前,黄志鹏,
吴海宁,李 战,贺梁琼,唐荣华
秦江南,郭永翠,王 博,孙浩洋,
张 锐
弭宝彬,武芳芳,谢玲玲,戴雄泽,
周火强

植物保护·农业气象

- 2425 云南切梢小蠹热激蛋白20基因克隆及序列分析
2432 桉树枝瘿姬小蜂雌成虫体内可培养细菌分离鉴定及多样性分析
2440 云南省不同烟区烟田烟蚜解毒酶和保护酶的活性分析
2447 温度、pH和培养基对长毛拟青霉菌株SP053生长和繁殖的影响
2454 海洋细菌GM-1-1产芽孢发酵培养基和摇瓶发酵条件优化
- 杨 诚,许 玉,刘 霞
王蕊蕊,胡 颖,杨振德,郭春晖,
朱林慧,郑霞林,玉舒中
徐继伟,张 祥,王文倩,曹艳飞,
李 丽,肖志新,陈 斌
杜彩莲,张 灿,袁 芳,李佳颖,
孙廷飞,乐 扬,Shaukat Ali
吴海霞,陈 茹,曹雪梅,李 欢,
暴增海,马桂珍,王军强,罗志会

园艺·园林·林业

- 2463 不同品种杜鹃花朵自动脱落相关酶活性比较
- 陈 睿,鲜小林,黄晋谷

2469	行距配置和覆膜对金菠萝产量及果实品质的影响	赵维峰,杨文秀,张艳芳,普耀南,刘胜辉
2476	不同派系杨树品种(系)光合特性评价	王兴胜,李 斌,陈 勇,夏 黎,夏诗书,程 平,李 宏
2486	11个灰树花优良菌株的栽培表现评价	叶建强,陈丽新,黄卓忠,朗 宁,唐 军
2494	何首乌离体快繁技术体系的建立	曾文丹,严华兵,曹 升,谢向誉,陆柳英
2500	金都1号火龙果果实发育过程中品质的变化规律分析	胡子有
2506	不同栽培密度和整枝措施对大棚小型无籽西瓜综合效益的影响	李桂芬,覃斯华,陆宇明,洪日新,叶云峰,梁盛凯

加工·贮藏·质量安全

2511	海南省芒果主产区主栽品种果实品质特性分析	谢若男,马 晨,张 群,刘春华,阳辛凤
2518	稻田和池塘养殖华南鲤肌肉营养成分比较分析	马冬梅,朱华平,黄樟翰,樊佳佳
2525	重质松节油中单离长叶烯的研究	关继华,宋 靓,陆顺忠,黎贵卿,吴建文
2532	贺州市8种红茶香气成分分析	陈赶林,郑凤锦,董文斌,吴彩谦,林 波,徐绍山

畜牧·兽医·水产·蚕桑

2539	尼罗罗非鱼CRTC2基因克隆及其表达规律分析	钟艺文,褚武英,许友卿,丁兆坤,张建社,李玉琬,成 嘉,陈亨德,安晓玲,王利香
2545	野生大珠母贝形态性状对湿重和壳重的相关性及通径分析	邓正华,陈明强,李有宁,吴开畅,王 雨
2551	两株海洋滩涂淤泥芽孢杆菌的筛选鉴定及药敏试验	陈 蓉,钟敏娟,刘洪锴,苏 凯,王锂韫,陈宝婷,谢海琪,张美玲,饶颖竹
2559	溶藻弧菌对凡纳滨对虾血细胞毒性及细胞凋亡和免疫相关基因的影响	卢芷程,许鑫佳,卢文宇,谭翠婷,陈劲鑫,郭 慧
2566	黄喉拟水龟肺气肿病原菌的分离鉴定及其药敏特性分析	胡 舒,黎 江,徐 腾,谢业扬,雷 坤,王邦杰,陆专灵,韦友传

Journal of Southern Agriculture

Vol.49 No.12, 2018

Contents

Crop genetics & breeding · germplasm resources · biotechnology

- 2349

Genetic diversity among five species medicinal plants of *Lonicera* L. in Guizhou Province by SRAP molecular markers analysis
- PAN Lǚ-chang, ZHAO Zhi, HE Yun, LI Yuan-yuan, LIU Hong-chang, FENG Ting-ting, ZHOU Ying
- 2356

Identification and evaluation of yield traits of 41 *Vicia faba* germplasm resources from African areas and Hubei, China
- LYU Chun-yu, LIAO Fang-li, CHEN Hong-wei, LI Li, WAN Zheng-huang, ZHU Zhen-zhen, SHA Ai-hua, JIAO Chun-hai
- 2364

Cluster analysis of *Morinda officinalis* How in different geographical populations based on *psbA-trnH* and rDNA ITS sequences
- XU Zi-xin, RAN Zhi-fang, YANG Xiao-tong, HAO Qing-xiu, YU Yi, ZHOU Jie, GUO Lan-ping
- 2371

Agronomic traits evaluation and genetic diversity analysis of *Flammulina filiformis*
- YANG He-chuan, TAN Yi-luo, SU Wen-ying, QIN Yu-ying, MA Teng, ZHOU Zhen-ling, PU Han-chun

Physiology & biochemistry · soil & fertilizer · agroecology environmet

- 2379

Screening of cadmium-resistant endophytic bacteria and its effect on enhancing cadmium tolerance of wheat seeding
- LIU Jun-sheng, XIE Xiu-chao, LUO Yang-lan, DENG Bai-wan, CAO Nai-xin, JIA Jiao
- 2387

Analysis of relationships between chemical properties and enzyme activity in continuous cropping tobacco-planted soil based on stepwise regression model
- BAI Yu-xiang, LIN Zhong-long, DENG Xiao-peng, XU Zhao-li, YANG Cheng -cui, SHI Pu-you, YANG Huan-wen, WANG Ge
- 2394

Effects of herbicide residue on the physiological properties of vegetable jute at seedling stage
- HOU Wen-huan, ZHAO Yan-hong, TANG Xing-fu, LIAO Xiao-fang, LAO Shang-ye, LI Chu-ying
- 2403

Peanut varieties selection and soil properties changes under paddy-upland rotation
- GAO Zhong-kui, JIANG Jing, TANG Xiu-mei, LIU Jing, ZHONG Rui-chun, HAN Zhu-qiang, XIONG Fa-qian, HUANG Zhi-peng, WU Hai-ning, LI Zhan, HE Liang-qiong, TANG Rong-hua
- 2410

Effects of two plant growth retardants on the diurnal variation of photo-synthetic fluorescence in main branch walnut
- QIN Jiang-nan, GUO Yong-cui, WANG Bo, SUN Hao-yang, ZHANG Rui
- 2419

Differences in morphological structure and physiological response of wax gourd seedlings under waterlogging stress
- MI Bao-bin, WU Fang-fang, XIE Ling-ling, DAI Xiong-ze, ZHOU Huo-qiang

Plant protection · agrometeorology

- 2425

Cloning and sequence analysis of heat shock protein 20 gene (*TynHSP20*) from *Tomicus yunnanensis* (Coleoptera: Scolytidae)
- YANG Cheng, XU Yu, LIU Xia
- 2432

Isolation, identification and diversity of culturable bacteria in female adults of *Leptocybe invasa* Fisher & La Salle
- WANG Rui-rui, HU Ying, YANG Zhen-de, GUO Chun-hui, ZHU Lin-hui, ZHENG Xia-lin, YU Shu-zhong
- 2440

Detoxifying and protective enzymatic activity of *Myzus persicae* (Sulzer) from different tobacco planting areas in Yunnan
- XU Ji-wei, ZHANG Xiang, WANG Wen-qian, CAO Yan-fei, LI Li, XIAO Zhi-xin, CHEN Bin
- 2447

Effects of temperature, pH and culture media on growth and sporulation of *Paecilomyces penicillatus* strain SP053
- DU Cai-lian, ZHANG Can, YUAN Fang, LI Jia-ying, SUN Ting-fei, YUE Yang, Shaukat Ali
- 2454

Optimization of fermentation medium for spore production and flask-shaking fermentation conditions of marine bacteria GM-1-1
- WU Hai-xia, CHEN Ru, CAO Xue-mei, LI Huan, BAO Zeng-hai, MA Gui-zhen, WANG Jun-qiang, LUO Zhi-hui

Horticulture · landscape architecture · forestry

- 2463

Comparative study on related enzyme activities of blossom automatic abscission process in different varieties of azalea
- CHEN Rui, XIAN Xiao-lin, HUANG Jin-gu

2469

Effects of row spacing and film covering on yield and fruit quality of pineapple cv. MD-2

ZHAO Wei-feng, YANG Wen-xiu, ZHANG Yan-fang, PU Yao-nan, LIU Sheng-hui

2476

Evaluation on photosynthetic characteristics of different factions of poplar species(clones)

WANG Xing-sheng, LI Bin, CHEN Yong, XIA Li, XIA Shi-shu, CHENG Ping, LI Hong

2486

Evaluation on cultivation performances of 11 fine *Grifola frondosa* strains

YE Jian-qiang, CHEN Li-xin, HUANG Zhuo-zhong, LANG Ning, TANG Jun

2494

Establishment of rapid propagation technology for *Polygonum multiflorum* in vitro

ZENG Wen-dan, YAN Hua-bing, CAO Sheng, XIE Xiang-yu, LU Liu-ying

2500

Variation regularity of quality during the fruit development process of pitaya variety Jindu No.1

HU Zi-you

2506

Effects of different planting densities and pruning measures on comprehensive benefits of small seedless watermelon in plastic shed

LI Gui-fen, QIN Si-hua, LU Yu-ming, HONG Ri-xin, YE Yun-feng, LIANG Sheng-kai

Processing · storage · quality safety

2511

Characteristic analysis on fruit quality of major varieties in main mango producing regions of Hainan

XIE Ruo-nan, MA Chen, ZHANG Qun, LIU Chun-hua, YANG Xin-feng

2518

Comparison of nutrient components in muscle of *Cyprinus carpio rubrofuscus* cultured in paddy field and pool

MA Dong-mei, ZHU Hua-ping, HUANG Zhang-han, FAN Jia-jia

2525

Process research of longifolene isolated from heavy turpentine oil

GUAN Ji-hua, SONG Jing, LU Shun-zhong, LI Gui-qing, WU Jian-wen

2532

Aroma components of eight black teas from Hezhou

CHEN Gan-lin, ZHENG Feng-jin, DONG Wen-bin, WU Cai-qian, LIN Bo, XU Shao-shan

Animal science · veterinary science · aquiculture · sericulture

2539

Cloning and expression features of *CRTC2* gene in Nile tilapia

ZHONG Yi-wen, CHU Wu-ying, XU You-qing, DING Zhao-kun, ZHANG Jian-she, LI Yu-long, CHENG Jia, CHEN Heng-de, AN Xiao-ling, WANG Li-xiang

2545

Correlation and path analysis of morphological traits to wet weight and shell weight of wild *Pinctada maxima*

DENG Zheng-hua, CHEN Ming-qiang, LI You-ning, WU Kai-chang, WANG Yu

2551

Screening identification and drug sensitivity test of two marine silt *Bacillus* strains

CHEN Rong, ZHONG Min-juan, LIU Hong-e, SU Kai, WANG Li-yun, CHEN Bao-ting, XIE Hai-qi, ZHANG Mei-ling, RAO Ying-zhu

2559

Effects of *Vibrio alginolyticus* on hemocytes toxicity, apoptosis and immune-related genes in *Litopenaeus vannamei*

LU Zhi-cheng, XU Luan-jia, LU Wen-yu, TAN Cui-ting, CHEN Jin-xin, GUO Hui

2566

Isolation, identification and antibiotic sensitivity of pathogenic bacteria causing pulmonary emphysema from *Mauremys mutica*

HU Shu, LI Jiang, XU Teng, XIE Ye-yang, LEI Kun, WANG Bang-jie, LU Zhuan-ling, WEI You-chuan