

江苏农业科学

第 48 卷 第 10 期 2020 年 5 月 20 日

目 次

●“乡村振兴”专栏

- 基于村域尺度的乡村发展类型及对策研究——以福建省浦城县为例 罗莎莎,曾玉荣,赖庆标,等(1)
- 宁镇扬一体化背景下区域农产品电商物流配送体系建设研究 许 评,仲伟来,王冠初(11)
- 大庆农村一二三产业融合发展水平 于晓秋,任国翠,秦 月(16)
- 农村集体经营性建设用地入市主体的地区差异性分析 高艺菡,段文枝(22)
- 我国农用地整治工程建设规范演变研究 张雪倩,田永中,许文轩,等(29)
- 协同治理视角下农村垃圾问题治理研究 施春华,王 青(35)

●专论与综述

- 单倍体诱导创建二倍体技术在油菜遗传育种中的研究进展 万丽丽,王转茸,范志雄,等(38)
- 生物质炭改善土壤矿质营养吸收的研究进展及作用机制分析 尧 芳,任天宝,徐 敏,等(46)
- 施用钝化剂对土壤重金属污染修复的研究进展 韩云昌,张乃明(52)
- 我国设施农业发展现状、存在不足及对策 骆 飞,徐海斌,左志宇,等(57)
- 土壤改良剂的研究进展 李 贇,刘 迪,范如芹,等(63)
- 农业废弃物有机肥发酵工艺研究现状与展望 陶志影,张 林,刘 凯,等(69)

●生物技术

- 凤丹牡丹二氢黄酮醇-4-还原酶基因克隆及表达特性分析 甘林鑫,李厚华,李 果,等(73)
- 桑树 ISSR-PCR 反应体系建立及优化 刘 玲,唐仕成,郑 丹,等(80)
- NaHCO₃ 胁迫下吉尔吉斯白桦 *MADS* 基因家族生物信息学及表达分析 刘伟莹,张雨晴,王丹玉,等(85)

●遗传育种与耕作栽培

- 优良小麦新品种宁麦 26 的选育及其应用 姚国才,马鸿翔,张 鹏,等(94)
- 土壤压实对水稻根系发育及产量的影响 肖芬芳,潘 霞,张智清,等(98)
- 新疆棉花春季冷害风险评估 张萌原,韩忠玲,程勇翔,等(102)
- 不同施氮量对短季棉生长发育及产量构成的影响 王海洋,王 为,高 进,等(109)
- 马铃薯不同发育期适宜温度气象指标研究 吴炫柯,农柳蓬,刘永裕,等(114)

●植物保护

- 播种量与施氮量对小麦产量及赤霉病发生的影响 王 显,杨大柳,王 安,等(117)
- 思州柚园黑蚱蝉若虫羽化空间分布型及羽化过程 黄胜先,李佳林,范 斌,等(121)
- 草莓炭疽病拮抗菌 SKL108 的分离、鉴定及拮抗活性 刘程程,王媛花,张雯婷,等(125)

●园艺与林学

- 外源硝态氮对盐胁迫下马齿苋谷氨酸积累及其代谢酶活性的影响 刘 冲,邢锦城,魏福友,等(130)
- 基于 SBE 法的滨江公园美景度调查研究——以昆明市滨江公园为例 韩 丽,马长乐(137)

郑州龙子湖公园春季植物景观色彩评价	陈予诺,杜师博,王艳想,等(142)
大棚蓝莓与露天蓝莓传粉生态特性比较研究	魏建华,刘林德,张 莉,等(149)
乙烯利和吲哚丁酸对扦插蓝莓组培苗不定根生长的影响	龚月桦,张家豪,周万海(157)
屋顶绿化基质及植物耐旱性研究	冯晓燕,殷金岩,汪田野,等(162)
植物生长调节剂对罗浮山黄精繁殖的影响	廖建良,周泽鑫(168)
不同立地条件下构树干物质积累与养分分配特征	韦冬萍,庞晓红,韦剑锋,等(173)
氮素形态及配比对泡核桃试管苗生根的影响	张 健,王沙沙,张文娥,等(176)
应用正交设计优选珊瑚藤种子萌发条件	陈 尔,林 茂,李进华,等(182)
耐阴小型荷花品种筛选研究	刘光杨,周 炜,白竹谊,等(186)
●畜牧兽医与水产蚕桑	
不同饲养模式对荷斯坦犊牛生长发育的影响	蒋晓新,许 芸,冯贵喜,等(194)
养殖池塘中 3 种常见水草的叶绿素荧光特征比较	陶菊红,韩晓磊,袁静雯,等(198)
利用隶属函数模型评价黑龙江省大庆地区引进的 20 个紫花苜蓿品种	刘淑霞,郭永霞,魏国江,等(202)
利用非靶向代谢组学方法研究龙胆泻肝汤治疗急性肝损伤的机制	张 艳,王 爽,李永哲,等(208)
●贮藏加工与检测分析	
肉桂醛对生鲜湿面中霉菌的气相抑制作用	王 帆,刘小莉,王兴娜,等(214)
牛大力精油成分测定及其作用机制预测分析	李程勋,李爱萍,徐晓俞,等(217)
“绿洲 1 号”芦竹不同部位营养成分分析	王艳萍,李鑫玉(224)
银杏果外种皮多糖的脱色工艺及抗氧化活性研究	赵浩晨,王婉婷,雷佳美,等(228)
花牛苹果幼果多酚单体酚降血压成分的筛选	高义霞,呼丽萍,袁毅君(232)
加拿大杨树皮总类脂提取工艺的筛选与优化	刘 飞,严 奇,胡 俊,等(236)
●农业工程与信息技术	
基于植物工厂条件下 LED 灯源热环境分析	王 静,欧福超,南 轩,等(240)
基于 NB-IoT 的粮库智能门窗群监控系统设计与实现	黄双成,赵 扬,李志伟,等(245)
基于改进压缩感知的生猪音频信号处理	吴亚文,赵家龙,侯金波,等(250)
催芽和未催芽状态下西洋参种子的物理机械特性	郑 娟,廖宜涛,周启凡,等(256)
●资源与环境	
徐州市农村居民点用地时空变化及其影响因素	毕雪昊,凌 宇,杨小艳,等(263)
厌氧条件下香草酸降解菌的分离与鉴定	赵晴雨,陆依琳,袁 茜,等(269)
乌鲁木齐夏、冬降水中溶解性有机质光谱特征及来源解析	祝 婕,蔺尾燕,杨 静,等(273)
典型山区陡坡耕地时空格局演变研究	蒋红娟,黄义忠(281)
耐钒微生物的分离鉴定及其去钒能力分析	伏 媛,李 迅,余雪梅,等(287)
猕猴桃园生草对土壤微生物多样性的影响	林 峰,杨殿林,王华玲,等(293)
基于 AHP-GIS 分析的传统村落景观评价	鲁俊奇,马长乐,马 聪(298)
●农业经济与管理	
基于城乡融合发展的江苏省农园建设对策研究	申 倩,毕德全,朱云洁,等(307)
企业家精神对新创农业企业成长性绩效的影响机制	张怀英,原丹奇,李 璐,等(312)
食品企业质量安全信息公开行为的经济学分析	张月义,景 娜,宋明顺(322)
中国水产品产量影响因素研究及预测分析	周 睿,李光华,金方彭(327)

JIANGSU AGRICULTURAL SCIENCES

Vol. 48 No. 10 May 20 2020

CONTENTS

Rural Revitalization

- Study on rural development types at village scale and countermeasures—A case of Pucheng County, Fujian Province *Luo Shasha, et al*(1)
- Study on construction of regional agricultural products e-commerce logistics distribution system under background of Nanjing – Zhenjiang – Yangzhou integration *Xu Ping, et al*(11)
- Study on development level of rural one, two and three industries integration in Daqing area *Yu Xiaoqiu, et al*(16)
- Regional difference analysis of market entities of rural collective business construction land *Gao Yihan, et al*(22)
- Study on evolution of construction standards for China's agricultural land consolidation *Zhang Xueqian, et al*(29)
- Study on management of rural waste from perspective of collaborative treatment *Shi Chunhua, et al*(35)

Monograph and Review

- Research progress on haploid induced diploid technology in rapeseed genetics and breeding *Wan Lili, et al*(38)
- Research progress and mechanism analysis of biomass charcoal improving soil mineral nutrient absorption *Yao Fang, et al*(46)
- Research progress of applying passivating agent to remediation of heavy metal pollution in soil *Han Yunchang, et al*(52)
- Current situation, deficiency and countermeasures of China's facility agriculture *Luo Fei, et al*(57)
- Research progress of soil ameliorants *Li Yun et al*(63)
- Research current status and prospects of fermentation process of organic waste organic fertilizers *Tao Zhiying, et al*(69)

Bio-technology

- Cloning and characteristic expression of dihydroflavonol-4-reductase gene (*PoDFR*) in *Paeonia ostii* ‘Fengdan’ *Gan Linxin, et al*(73)
- Establishment and optimization of ISSR-PCR reaction system for mulberry *Liu Ling, et al*(80)
- Bioinformatics and expression analysis of *MADS* gene family in *Betula kirghisorum* under NaHCO₃ salt stress *Liu Weiying, et al*(85)

Genetics and Breeding • Tillage and Cultivation

- Breeding and application of new wheat cultivar “Ningmai 26” *Yao Guocai, et al*(94)
- Effects of soil compaction on root system and yield of rice *Xiao Fenfang, et al*(98)
- Risk assessment of cotton cold damage in spring in Xinjiang area *Zhang Mengyuan, et al*(102)
- Influences of different nitrogen application rates on growth and yield components of short season cotton *Wang Haiyang, et al*(109)
- Study on meteorological indicators of suitable temperature for potato at different development stages *Wu Xuanke, et al*(114)

Plant Protection

- Effects of seeding rate and nitrogen application rate on wheat yield and scab *Wang Xian, et al*(117)
- Eclosion spatial distribution and eclosion process of *Cryptotympana atrata* (Fabricius) in Sizhou pomelo field *Huang Shengxian, et al*(121)
- Screening, identification and evaluation of antagonistic bacteria SKL108 against strawberry anthracnose *Liu Chengcheng, et al*(125)

Horticulture and Forestry

- Effects of exogenous nitrate nitrogen on glutamate accumulation and key enzymes activities in metabolism of *Portulaca oleracea* L. under salt stress *Liu Chong, et al*(130)
- Study on scenic beauty of riverside park based on SBE method—Taking Riverside Park of Kunming City as an example *Han Li, et al*(137)
- Evaluation of plant landscape color of Longzihu Park in spring in Zhengzhou City *Chen Yunuo, et al*(142)

Comparative study on pollination ecological characteristics of blueberries in greenhouse and open air ... Wei Jianhua,et al(149)

Effects of ethephon and IBA on adventitious root growth of blueberry tissue culture seedlings Gong Yuehua,et al(157)

Study on roof greening substrate and plant drought tolerance Feng Xiaoyan,et al(162)

Impacts of plant growth regulators on propagation of *Polygonatum sibiricum* in Luofu Mountain Liao Jianliang,et al(168)

Characteristics of dry matter accumulation and nutrient distribution of *Broussonetia papyrifera* under different site conditions
..... Wei Dongping,et al(173)

Effects of nitrogen forms and ratios of DKW medium on rooting of *Juglans sigillata* seedlings Zhang Jian,et al(176)

Optimization of seed germination techniques of *Antigonon leptopus* by orthogonal design Chen Er,et al(182)

Screening of *Nelumbo nucifera* cultivars with shade tolerance Liu Guangyang,et al(186)

Husbandry and Veterinary · Aquaculture and Sericulture

Influences of different feeding modes on growth of Holstein calves Jiang Xiaoxin,et al(194)

Comparison of chlorophyll fluorescence characteristics of three cultivated submersed macrophytes in aquaculture ponds
..... Tao Juhong,et al(198)

Evaluation of 20 alfalfa cultivars introduced in Daqing area of Heilongjiang Province using membership function model
..... Liu Shuxia,et al(202)

Study on mechanism of Longdan Xiegan decoction in treating acute liver injury by non – targeted metabolomics
..... Zhang Yan,et al(208)

Storage and Processing · Detection

Vapor – phase antimicrobial activity of cinnamaldehyde against moulds isolated from semi – dry noodles
..... Wang Fan,et al(214)

Determination of essential oil from roots of *Millettia speciose* and prediction of its action mechanism ... Li Chengxun,et al(217)

Analysis of nutritional components in different parts of *Arundo donax* cultivar “Lvzhou No. 1” Wang Yanping,et al(224)

Study on decolorization process and antioxidant activity of ginkgo fruit exocarp polysaccharide Zhao Haochen,et al(228)

Screening of antihypertensive components of polyphenol monomers from young fruits of Huanieu apple ... Gao Yixia,et al(232)

Screening and optimization of extraction processes of total lipids from barks of *Populus × canadensis* Moench
..... Liu Fei,et al(236)

Agricultural Engineering and Information Technology

Analysis of thermal environment of LED lamp source based on plant factory Wang Jing,et al(240)

Design and implementation of intelligent gate and window group monitoring system for grain depot based on NB – IoT
..... Huang Shuangcheng,et al(245)

Audio signal processing of live pigs based on improved compression perception Wu Yawen,et al(250)

Experimental study on physical and mechanical properties of American ginseng seeds under germinated and un – germinated
states Zheng Juan,et al(256)

Resources and Environment

Spatial – temporal changes of rural residential land use in Xuzhou City and its influencing factors Bi Xuehao,et al(263)

Isolation and identification of vanillic acid degrading bacteria under anaerobic conditions Zhao Qingyu,et al(269)

Spectroscopic characterization and sources analysis of DOM in summer and winter rainfall in Urumqi City
..... Zhu Jie,et al(273)

Study on temporal and spatial pattern evolution of steep slope farmland in typical mountain area
..... Jiang Hongjuan,et al(281)

Isolation and identification of vanadium – tolerant microorganisms and analysis of its vanadium removal ability
..... Fu Yuan,et al(287)

Effect of inter – row planting grasses on soil microbial diversity in kiwifruit orchard Lin Feng,et al(293)

Evaluation of traditional village landscape based on AHP – GIS Lu Junqi,et al(298)

Agricultural Economy and Management

Study on countermeasures of rural park construction in Jiangsu Province based on integration of urban and rural development
..... Shen Qian,et al(307)

Influencing mechanism of entrepreneurship on growth performance of new agricultural enterprises
..... Zhang Huaiying,et al(312)

Economic analysis of quality safety information disclosure behavior for food enterprises’ Zhang Yueyi,et al(322)

Factors influencing output of China’s aquatic products and their prediction analysis Zhou Rui,et al(327)