

江苏农业科学

第 49 卷 第 9 期 2021 年 5 月 5 日

目 次

●“乡村振兴”专栏

- “十四五”时期江苏农业农村发展的若干问题 沈贵银,廖小静(1)
- 协同治理视域下创建特色小镇可持续发展机制 吴 薛,曾柳依(7)
- 江苏省绿色乡村建设现状与适宜技术 邓华艳,李振全,马思聪(14)

●专论与综述

- 甘蔗白条病及其病原菌黄单胞杆菌致病性的研究进展 魏春燕,宋修鹏,张小秋,等(19)
- 国内外水体富营养化现状及聚磷菌研究进展 刘有华,王思婷,杨乔乔,等(26)
- 蒲公英的功效成分与药理作用研究进展 孟 然,薛志忠,鲁雪林,等(36)
- 防风的化学成分、提取工艺及药理作用研究进展 陈雨秋,张 涛,陈长宝,等(43)

●生物技术

- 不同基因型及培养基在燕麦花药组织培养中的应用 田 娟,张 曼,孙墨可,等(49)
- 蓖麻高密度遗传图谱构建亲本 SNP 多态性分析 杨俊芳,曹 越,王 宙,等(53)

●遗传育种与耕作栽培

- 黄河流域冀南棉区无膜种植下播期对棉花产量及株型性状的影响 路正营,齐海坤,孙 璐,等(58)
- 不同基肥和行距对盐碱地高粱农艺性状的影响及指标间相关性分析 丁海荣,杨智青,程云辉,等(64)
- 枣棉间作行距和灌水量对棉花干物质及产量的影响 王 飞,陈 旭,万素梅,等(70)
- 带状复合种植模式下玉米产量及相关性分析 石晓旭,李 波,刘 建,等(74)

●植物保护

- 禾谷镰刀菌拮抗菌 ZQT-31 的分离与鉴定 张 强,张艳茹,霍云凤,等(80)
- 苏南地区粳稻生产减量用药技术研究与示范 陈小龙,王冬兰,张心明,等(86)
- 3 种植物源杀虫剂对小贯小绿叶蝉的防治效果 刘 超,毛建辉,陈 宇,等(91)

●园艺与林学

- 氨基多糖水溶肥对青萝卜生长、品质性状及抗氧化酶活性的影响 王 玮,程 瑞,吴传万,等(95)
- 苦豆子不同器官浸提液、干粉对伽师瓜种子萌发及幼苗、植株生长的影响
..... 麦麦提艾则孜·穆合塔尔,王 东,刘艳全(100)

熊蜂授粉对设施番茄产量和品质的影响	刘志刚,任红松,冯广余,等(107)
秋石斛抗寒性生理的综合评价	林榕燕,钟淮钦,方能炎,等(111)
施用复合微生物肥对当归药材品质的影响	李 钦,王引权,彭 桐,等(117)
宿迁市区新引种彩叶植物调查与综合评价分析	李素华,徐 丽,韩浩章,等(123)
NaCl 胁迫对榆树种子萌发的影响	张 航,战金雨,杨 柳,等(127)
有棱丝瓜耐热性种质资源筛选与耐热生理响应	朱德宁,刘素娜,赵绮薇,等(132)

●畜牧兽医与水产蚕桑

导入巴克夏猪血统对苏紫黑猪生产性能的影响	方晓敏,王 丽,涂 枫,等(138)
基于线粒体 D-loop 区分析安徽省 5 个翘嘴鳊养殖群体的遗传多样性	谢启明,柯瑞林,刘 帆,等(143)

●贮藏加工与检测分析

超声渗透辅助组合干燥对胡萝卜干燥均匀性及品质的影响	徐亚元,郎旭敏,肖亚冬,等(148)
小麦叶绿素含量测定方法比较	努尔凯麦尔·木拉提,杨亚杰,帕尔哈提·阿布都克日木,等(156)
中草药保鲜剂对鲜切甘薯品质及褐变的影响	王逸夫,谢裕俊,马晓鹏,等(160)
雪胆多酚的稳定性及其对 α -淀粉酶的抑制作用	段思宇,陈 庚,高青青,等(167)

●农业工程与信息技术

农机设备信息化调度平台架构设计研究	李 雯,白正玉,侯天龙,等(172)
基于 Raspberry Pi 的智能蜂箱系统设计	包 迪,侯开虎,杨道清,等(178)
不同灌水水平下 CROPGRO-Tomato 模型局部敏感性分析	赵子龙,姚名泽,李 波(183)
基于 GRNN 算法的白芨产量智能预测模型	钱 晔,孙吉红,李晓曙,等(190)

●资源与环境

基于最小数据集的宁夏耕地土壤质量评价	李百云,李 慧,郭鑫年,等(195)
互花米草枯落物对克氏原螯虾的微生境选择及生长的影响	张婧怡,王爱兵,黄 成,等(201)
优化营养土配方对烤烟根际微生态环境及烟叶产质量的影响	唐 民,黄 建,张海伟,等(206)
苏北地区土地利用变化及其驱动力分析——以宿迁市为例	周国胜,房 凯,武 鹏(211)
辽宁省设施农业大风灾害预警研究	孟 莹,吴曼丽,张淑杰(217)

●农业经济与管理

我国城乡协调发展的动态演变与结构评价	金晟男,耿献辉(224)
农村科技服务供给、农户资本因素与农户知识行为——来自江苏的实证分析	季小霞,杨加猛(230)
环境规制能否带来就业的增长? ——基于省际面板数据的检验	王柱焱,潘 超(237)
冬小麦农业气象保险指数研究——以连云港地区为例	董京铭,史达伟,颜佳任,等(242)

JIANGSU AGRICULTURAL SCIENCES

Vol. 49 No. 9 May 5 2021

CONTENTS

Rural Revitalization

- Several issues of agricultural and rural development in Jiangsu Province during the “14th Five – Year Plan” period
..... *Shen Guiyin, et al*(1)
- Establishment of sustainable development mechanism for characteristic towns from perspective of collaborative governance
..... *Wu Xue, et al*(7)
- Study on current situation and suitable technologies for green countryside construction in Jiangsu Province
..... *Deng Huayan, et al*(14)

Monograph and Review

- Research progress on sugarcane leaf scald and pathogenicity of *Xanthomonas albilineans* *Wei Chunyan, et al*(19)
- Current situation of eutrophication of water body at home and abroad and research progress of phosphate accumulating bacteria
..... *Liu Youhua, et al*(26)
- Research progress on active components and pharmacological effects of *Taraxacum mongolicum* Hand. – Mazz
..... *Meng Ran, et al*(36)
- Research progress on chemical constituents, extraction technology and pharmacological effects of *Saposhnikovia divaricate*
..... *Chen Qiuyu, et al*(43)

Bio-technology

- Application of different genotypes and media in anther tissue culture of oat *Tian Juan, et al*(49)
- Polymorphism analysis of parental SNPs in castor plant high – density genetic map construction *Yang Junfang, et al*(53)

Genetics and Breeding · Tillage and Cultivation

- Impacts of sowing date on cotton yield and plant type characters under condition of planting without film in southern Hebei
cotton region of the Yellow River Basin *Lu Zhengying, et al*(58)
- Effects of different basal fertilizer and row spacing on agronomic characters of sorghum in saline – alkali soil and correlation
analysis of indices *Ding Hairong, et al*(64)
- Effects of row spacing and irrigation amount of jujube and cotton intercropping on dry matter and yield of cotton
..... *Wang Fei, et al*(70)
- Maize yield and correlation analysis under strip compound planting mode *Shi Xiaoxu, et al*(74)

Plant Protection

- Isolation and identification of antagonistic bacteria ZQT – 31 against *Fusarium graminearum* *Zhang Qiang, et al*(80)
- Research and demonstration of pesticide reduction strategy for japonica rice production in southern Jiangsu
..... *Chen Xiaolong, et al*(86)
- Control effects of three plant – derived insecticides on *Empoasca (Matsumurasca) onukii* *Liu Chao, et al*(91)

Horticulture and Forestry

- Effects of amino polysaccharide water soluble fertilizer on growth, quality and antioxidant enzyme activities of radish
..... *Wang Wei, et al*(95)

Influences of different organ extracts and dry powder of *Sophora alopecuroides* on seed germination and seedling and plant growth of Jiashi melon Maimaitiaizezi · Muhetaer,et al(100)

Impact of bumblebee pollination on yield and quality of protected tomato Liu Zhigang,et al(107)

Comprehensive evaluation of cold resistance physiology of autumn *Dendrobium* spp. Lin Rongyan,et al(111)

Effect of compound microbial fertilizer on quality of angelica medicinal materials Li Qin,et al(117)

Investigation and comprehensive evaluation analysis of newly introduced color –leaved plants in Suqian City Li Suhua,et al(123)

Impact of NaCl stress on germination of *Ulmus pumila* seeds Zhang Hang,et al(127)

Screening of heat – tolerant germplasm resources of *Luffa acutangula* (L.) Roxb. and its physiological response to heat resistance Zhu Dening,et al(132)

Husbandry and Veterinary · Aquaculture and Sericulture

Influence of introducing pedigree of Berkshire pig on productive performance of Suzi black pig Fang Xiaomin,et al(138)

Study on genetic diversity of five cultured populations of *Siniperca chuatsi* based on D – loop region of mitochondrial DNA Xie Qiming,et al(143)

Storage and Processing · Detection

Effects of ultrasonic infiltration combined with drying on uniformity and quality of carrot chips Xu Yayuan,et al(148)

Comparative study on determination methods of chlorophyll content in wheat Nurkaimar Murat,et al(156)

Impacts of Chinese herbal medicine preservatives on quality and browning of fresh cut sweet potato Wang Yifu,et al(160)

Stability and inhibition to α – amylase activity of polyphenols from *Hemsleya chinensis* Duan Siyu,et al(167)

Agricultural Engineering and Information Technology

Study on architecture design of agricultural machinery equipment information dispatching platform Li Wen,et al(172)

Design of intelligent beehive system based on Raspberry Pi Bao Di,et al(178)

Local sensitivity analysis of CROPGRO – Tomato model under different irrigation levels Zhao Zilong,et al(183)

Study on intelligent forecast model of *Bletilla striata* yield based on GRNN algorithm Qian Ye,et al(190)

Resources and Environment

Evaluation of soil quality of cultivated land in Ningxia area based on minimum data set Li Baiyun,et al(195)

Effects of *Spartina alterniflora* litter on microhabitat selection and individual growth of *Procambarus clarkii* Zhang Jingyi,et al(201)

Effects of optimized nutritive soil formulas on rhizosphere microecology ,yield and quality of flue – cured tobacco Tang Min,et al(206)

Analysis of land use change and its driving forces in northern Jiangsu—Taking Suqian City as an example Zhou Guosheng,et al(211)

Study on gale disaster early warning of facility agriculture in Liaoning Province Meng Ying,et al(217)

Agricultural Economy and Management

Dynamic evolution and structural evaluation of coordinated development of China’s urban and rural areas Jin Shengnan,et al(224)

Rural science and technology service supply ,farmers’ capital factors and knowledge behavior—An empirical analysis from Jiangsu Province Ji Xiaoxia,et al(230)

Can environmental regulation promote employment growth? —Inspection based on provincial panel data Wang Zhuyan,et al(237)

Study on meteorological insurance index of winter wheat—Taking Lianyungang area as an example Dong Jingming,et al(242)