

江苏农业科学

第 49 卷 第 6 期 2021 年 3 月 20 日

目 次

●专论与综述

- 果蔬中农药残留检测分析研究进展 李俊霞, 马丽雅, 林河通, 等(1)
- 螺旋藻养殖加工和安全性研究进展 许洪高, 周琪乐, 鲁 绯, 等(10)
- 羊肚菌栽培及富硒控制技术研究进展 李梦桐, 王 楠, 玛依拉·吐尔地别克, 等(20)
- 生物质沼气工程发展现状分析 袁艳文, 刘 昭, 赵立欣, 等(28)

●生物技术

- 4 种鬼伞 β -1,3-葡聚糖转移酶的生物信息学分析 牛 鑫, 柴倩因, 冯九海, 等(33)
- 沼泽红假单胞菌 LuxR 家族调控蛋白的生物信息学分析 杨艳北, 许 晶, 李袁飞, 等(40)
- 基于微卫星标记的不同种质资源罗氏沼虾遗传多样性研究 许珊华, 章嘉洪, 卢 婷, 等(45)

●遗传育种与耕作栽培

- 施氮量和植物生长调节剂对优质稻抗倒能力及产量的调控效应 胡振阳, 程 宏, 卢 臣, 等(52)
- 新疆伊犁地区春油菜种质资源筛选及灰色综合评价 陈 雷, 万素梅(60)
- 玉米自交系的配合力及相关性分析 进茜宁, 李 威, 王平喜, 等(68)
- 新型钾肥配施硫酸钾对烤烟生长及钾素吸收的影响 王一柳, 李冬雪, 卮威威, 等(72)
- 新型肥料在机插优质粳稻上的应用效果 张 军, 刘忠红, 周冬冬, 等(77)
- 春播西农 T1351 荞麦的适宜播种期 刘荣甫, 黄新平, 陈翠明, 等(81)

●植物保护

- 绿豆根腐病病原菌分离和致病力鉴定 闫 强, 丁 佩, 张勤雪, 等(86)
- 具有烟草根结线虫防效的万寿菊秸秆生物有机肥配方及田间防控研究 刘加红, 盘文政, 吕亚琼, 等(92)
- 性信息素诱捕器不同悬挂方式对梨小食心虫诱杀效果 王荣轅, 刘广勤, 李佰峰, 等(99)

●园艺与林学

- 不同土壤封闭除草剂对观赏向日葵主要观赏价值指标影响的评价 纪洪亭, 王 勇, 曾燕楠, 等(103)
- 塑料大棚栽培下有机无机配施对大白菜产量、品质及土壤肥力的影响 徐丽萍(109)
- 河北省红地球葡萄土壤与叶片营养诊断分析 高春丽, 马振朝, 王志慧, 等(114)

甘肃省临夏地区草莓种苗繁育及日光温室栽培技术	石光农, 庞夫花, 谷旭琳, 等(120)
肥料减施对江苏沿海地区大蒜生长与品质的影响	崔必波, 晏 军, 李亚芳, 等(123)
蔗糖、硼酸、Ca ²⁺ 对大白杜鹃花粉萌发的影响	王 波, 周兰英, 夏华梅, 等(129)

●畜牧兽医与水产蚕桑

隔湖鲢、鳙种群生长特征及起捕规格	李大命, 唐晟凯, 刘燕山, 等(134)
鱼-菜共生养殖模式对罗非鱼生长性能、水质和浮游生物的影响	刘邦辉, 方彰胜, 丁悦秀, 等(140)
不同养殖模式下加州鲈鱼肉质比较分析	周 聃, 崔雁娜, 周冬仁, 等(146)

●贮藏加工与检测分析

银杏果外种皮总黄酮提取工艺和抗氧化活性	李超峰, 吴雯雯, 王靖雯, 等(150)
菊花中啮虫脘的残留降解规律	卢 飞, 郑尊涛, 张江兆, 等(155)
ClO ₂ 缓释熏蒸处理对小白菜保鲜效果的影响	王 晓, 陈冰洁, 刘晨霞, 等(160)
光照度对赤霞珠葡萄酒香气成分的影响	倪志婧, 王 薇, 马文平, 等(164)
解淀粉芽孢杆菌 B15 可湿性粉剂的抑菌和防腐效果	金玮鋆, 张凤杰, 张晓蒙, 等(169)

●农业工程与信息技术

基于序列图像的土壤表面三维重建及粗糙度测量	缪 盾, 王铭浩, 徐明玉(173)
基于二次迁移模型的小样本茶树病害识别	谢 军, 江朝晖, 李 博, 等(176)
温室环境参数模糊专家控制系统的设计	韦玉翡, 赵建贵, 高安琪, 等(183)
基于智能手机的农村土地产权流转信息平台开发	邬锦雯, 孙静蕾, 邬美玲(188)

●资源与环境

长江中下游地区气候生产潜力及粮食产量响应	文想成, 张 泰, 王学梅, 等(196)
不同地区盐渍土土壤颗粒的分形特征	赵守强, 迟大群, 贾付诚, 等(203)
脱硫石膏施用不同年限对土壤改良效果及安全性评价	陈 虹, 姜同轩, 马 蕊, 等(208)
南京市绿地土壤养分特征及空间分布	王 红, 徐 静, 谢晓金, 等(212)
呼玛河韩辉套子春季大型底栖动物多样性及水质评价	李培伦, 刘 伟, 王继隆, 等(219)
基于 Google Earth Engine 平台的太湖围网养殖时空变化	李尚志, 薛华柱, 李静茹, 等(225)

●农业经济与管理

挑战与回应: 城乡融合视域下的浙江省土地综合整治再审视	张 伟, 彭晓燕(232)
基于 SD 模型的突发事件对农产品价格的影响——以 2020 年新冠肺炎疫情为例	陈 振, 张康辉, 咎 哲(237)
交易不确定性对农户参与农民专业合作社意愿的影响——基于新疆生产建设兵团第五师 E 团制种玉米 种植农户的调研	葛廷进, 朱海东, 丁 宇(243)

JIANGSU AGRICULTURAL SCIENCES

Vol. 49 No. 6 March 20 2021

CONTENTS

Monograph and Review

- Research progress on detection and analysis of pesticide residues in fruits and vegetables *Li Junxia, et al*(1)
- Research progress of cultivation, processing and safety of *Spirulina* *Xu Honggao, et al*(10)
- Research progress on cultivation and Se – enriched control technology of *Morchella* spp. *Li Mengtong, et al*(20)
- Analysis of development status of biomass biogas project *Yuan Yanwen, et al*(28)

Bio-technology

- Bioinformatics analysis of $\beta - 1, 3 -$ glucanotransferases in four coprinoid mushrooms *Niu Xin, et al*(33)
- Bioinformatics analysis of LuxR family transcriptional regulator in *Rhodopseudomonas palustris* *Yang Yanbei, et al*(40)
- Study on genetic diversity of different germplasm resources of *Macrobrachium rosenbergii* based on microsatellite markers
..... *Xu Shanhua, et al*(45)

Genetics and Breeding · Tillage and Cultivation

- Effects of nitrogen application and plant growth regulators on lodging resistance and yield of high – quality rice
..... *Hu Zhenyang, et al*(52)
- Screening and gray comprehensive evaluation of spring rapeseed germplasm resources in Yili Region, Xinjiang
..... *Chen Lei, et al*(60)
- Combining ability and correlation analysis of maize inbred lines *Jin Xining, et al*(68)
- Effects of new potassium fertilizer combined with potassium sulfate on growth and potassium absorption of flue – cured tobacco
..... *Wang Yiliu, et al*(72)
- Application effect of new fertilizer on japonica rice with good quality under mechanical transplanting ... *Zhang Jun, et al*(77)
- Study on suitable sowing time of buckwheat cultivar Xinong T1351 in spring *Liu Rongfu, et al*(81)

Plant Protection

- Isolation and pathogenicity identification of pathogen of mung bean root rot *Yan Qiang, et al*(86)
- Study on formulation and field control of marigold straw bio – organic fertilizer with tobacco root – knot nematode control effect
..... *Liu Jiahong, et al*(92)
- Impact of different suspension methods of sex pheromone traps on trapping and killing of pear heartworm
..... *Wang Rongyuan, et al*(99)

Horticulture and Forestry

- Assessment on effect of different soil – treated herbicides on main ornamental value indices of ornamental sunflower
..... *Ji Hongting, et al*(103)
- Influences of combined application of organic and inorganic fertilizers on yield and quality of Chinese cabbage and soil
fertility under plastic greenhouse cultivation *Xu Liping*(109)
- Diagnostic analysis of soil and leaf nutrition of Red Globe grape in Hebei Province *Gao Chunli, et al*(114)
- Strawberry seedling propagation and sunlight greenhouse cultivation techniques in Linxia Region of Gansu Province
..... *Shi Guangnong, et al*(120)

Effects of fertilizer reduction on garlic growth and quality in coastal area of Jiangsu Province Cui Bibo,et al(123)

Impacts of sucrose ,boric acid and Ca²⁺ on pollen germination of *Rhododendron decorum* Franch. Wang Bo,et al(129)

Husbandry and Veterinary · Aquaculture and Sericulture

Captured standard and growth characteristics of *Hypophthalmichthys molitrix* and *Aristichthys mobilis* in Lake Gehu
..... Li Daming,et al(134)

Effect of fish – vegetable symbiosis culture model on tilapia growth performance, water quality and plankton
..... Liu Banghui,et al(140)

Comparative analysis of meat quality of *Micropterus salmoides* under different breeding models Zhou Dan,et al(146)

Storage and Processing · Detection

Extraction technology and antioxidant activity of flavonodis from *Ginkgo biloba* exocarp Li Chaofeng,et al(150)

Degradation of acetamiprid residues in chrysanthemum Lu Fei,et al(155)

Influences of chlorine dioxide slow – release fumigation on preservation of Chinese cabbage Wang Xiao,et al(160)

Effect of light intensity on aroma composition of Cabernet Sauvignon wine Ni Zhijing,et al(164)

Fungistatic and antiseptic effect of wettable powder of *Bacillm amyloliquefaciens* B15 Jin Weiyun,et al(169)

Agricultural Engineering and Information Technology

Three – dimensional reconstruction and roughness measurement of soil surface based on sequence images
..... Miao Dun,et al(173)

Image recognition of tea plant disease small samples based on secondary migration model Xie Jun,et al(176)

Design of fuzzy expert control system for greenhouse environmental parameters Wei Yufei,et al(183)

Development of rural land property rights circulation information platform based on smart phone Wu Jinwen,et al(188)

Resources and Environment

Climate productivity potential and food production response in the middle and lower reaches of Yangtze River
..... Wen Xiangcheng,et al(196)

Study on fractal characteristics of soil particles of saline soil in different regions Zhao Shouqiang,et al(203)

Evaluation of soil improvement effect and safety of desulfurized gypsum for different years Chen Hong,et al(208)

Soil nutrient characteristics and space distribution of urban green space in Nanjing City Wang Hong,et al(212)

Macrozoobenthos biodiversity and water quality evaluation in Hanhuitaozi of Huma River Li Peilun,et al(219)

Study on Taihu enclosure aquaculture spatiotemporal change based on Google Earth Engine platform
..... Li Shangzhi,et al(225)

Agricultural Economy and Management

Challenges and responses;re – examination of comprehensive land consolidation in Zhejiang Province from perspective of
urban – rural integration Zhang Wei,et al(232)

Impact of emergencies on agricultural product price based on SD model—Taking COVID – 19 epidemic in 2020 as an example
..... Chen Zhen,et al(237)

Impact of transaction uncertainty on farmers’ willingness to participate in farmers’ cooperatives—Based on investigation of
seed corn farmers of E Regiment of the 5th Division of Xinjiang Production and Construction Corps
..... Ge Tingjing,et al(243)