

江苏农业科学

第 51 卷 第 4 期 2023 年 2 月 20 日

目 次

●专论与综述

- 我国规模化果园有机废弃物资源化利用研究现状 曾 锦, 祈雁楠, 徐 陶, 等(1)
- 农药联合复配在农作物病虫害防治上的研究进展 徐重新, 张江兆, 胡晓丹, 等(8)
- 丛枝菌根真菌提高植物耐盐性生理机制研究进展 郭 娜, 张 玥, 刘贤雍, 等(16)
- 地方农业种质资源保护存在问题与利用途径 王强盛, 苏雪莲, 张 慧(23)
- 中国智慧农业研究演进脉络梳理及前沿趋势分析 洪 帅, 王天尊, 符晓艺(28)

●生物技术

- 红花 *CDPK* 基因家族的鉴定及表达分析 胡祥祥, 许 姣, 宋梦瑶, 等(39)
- 群结腐霉细胞壁降解酶的活性检测及基因表达分析 陈一帆, 薛太强, 陈思桥, 等(46)

●遗传育种与耕作栽培

- 甘蓝型油菜叶绿素含量的主基因 + 多基因遗传分析 李远红, 余坤江, 何雨琦, 等(52)
- 硝化抑制剂对水稻秧苗生长及土壤养分变化的影响 董玉兵, 董青君, 纪 力, 等(58)
- 基于不同播期的小麦籽粒性状综合分析 张广旭, 王康君, 郭明明, 等(64)
- 缓释肥一次性施肥在水稻上增产增效的农学基础研究 田文涛, 党程成, 郝蓉蓉, 等(71)
- 褪黑素浸种对混合盐碱胁迫下藜麦生长及生理的影响 李平平, 张永清, 张 萌, 等(77)
- 秸秆不同还田方式对轮作小麦—玉米产量、土壤养分及蔗糖酶活性的影响
..... 王 晶, 孙松青, 李 雪, 等(85)
- 干旱胁迫对青稞种子萌发期的影响及抗旱性评价 彭玉琳, 曾凡茹, 东 强, 等(91)
- 寒地粳稻耐碱鉴定指标筛选与评价 孙兴荣, 卞景阳, 刘琳帅, 等(99)
- 黄淮海地区玉米生育期制图研究 王晓伟, 李晓玉, 史雯琪, 等(105)

钼与氮形态对不同氮效率冬小麦氮吸收、代谢及根系发育的影响 张明辉,时曼丽(114)

●植物保护

内生拮抗细菌对草莓 2 种病原真菌的抑制作用 张 莉,张博源,陈思乐,等(121)

土壤处理除草剂对小籽藨草室内生物活性评价 田武学,严牙丽,沈嘉彬,等(128)

●园艺与林学

6 种苹果砧穗组合抗旱性评价 尹鹏龙,田国杰,王祖光,等(133)

外源亚精胺对草莓 NaCl 胁迫的缓解效应 马媛媛,孙军利,赵宝龙,等(139)

硒元素调控富硒高褪黑素甜樱桃生产的探讨(综述) 孙协平,钟 美,梁 东,等(146)

不同绿豆品种的芽用特性评价及其专用品种筛选 吕重阳,张晓燕,黄 璐,等(152)

丛枝菌根真菌与绿色木霉对干旱胁迫下苹果树苗生长、生理特征及水分利用的影响
..... 王 建,赵 单(164)

缺钙和缺镁对脐橙幼苗生长及矿质养分吸收分配的影响 张圆圆,马金龙,管 冠,等(171)

●畜牧兽医与水产蚕桑

五味子对产蛋期藏鸡肠道微生物菌群的影响 杨晓志,顾文婕,吉俊玲,等(180)

猪源唾液酸黏附素受体的表达及其纳米抗体筛选 洪伟鸣,郭子杰,李睿婷,等(186)

●农业工程与信息技术

面向移动端的植物病害图像识别方法及其应用 杨 祥,段军明,董明刚(191)

基于离散元的木薯种茎仿真参数标定方法研究 陈林涛,薛俊祥,牟向伟,等(198)

●资源与环境

土壤有机碳组分及微生物功能多样性对耕作方式与秸秆覆盖量的响应 胡月华(206)

低温生物炭和化肥配施对冬小麦生长和土壤铅镉生物有效性的影响 彭红宇,刘红恩,王秋红,等(212)

餐厨垃圾含水率和碳氮比对黑水虻幼虫养殖过程中气体释放的影响 叶 牧,孔祥平,叶小梅,等(220)

煤矸石复垦区玉米根际与非根际土壤细菌群落对覆土厚度的响应 张变华,靳东升,张 强,等(226)

设施菜田土壤碳氮磷生态化学计量学特征 张大庚,栗 杰,董 越,等(232)

●农业经济与管理

江苏粮食产业发展现状、主要问题与对策建议 周莉雅,邱美琴,蔡晓燕,等(239)

我国劳动密集型产业的原材料国际认证风险隐患与应对策略——以棉花、木材、海鲜水产品为例
..... 周若雨,李晓哲,林元彪(245)

JIANGSU AGRICULTURAL SCIENCES

Vol. 51 No. 4 February 20 2023

CONTENTS

Monograph and Review

- Research status on resource utilization of organic waste in China's large – scale orchards *Zeng Jin, et al*(1)
- Research progress of pesticide combination in crop diseases and insect pests control *Xu Chongxin, et al*(8)
- Research progress on physiological mechanism of arbuscular mycorrhizal fungi improve plant salt tolerance
..... *Guo Na, et al*(16)
- Problems and utilization ways of local agricultural germplasm resources protection *Wang Qiangsheng, et al*(23)
- Study on evolution context combing and frontier trends of intelligent agriculture research in China *Hong Shuai, et al*(28)

Bio-technology

- Identification and expression analysis of *CDPK* gene family in *Carthamus tinctorius* *Hu Xiangxiang, et al*(39)
- Cell wall degrading enzyme activity detection and gene expression analysis in *Pythium myriotylum* *Chen Yifan, et al*(46)

Genetics and Breeding · Tillage and Cultivation

- Genetic analysis of chlorophyll content in *Brassica napus* using model of major gene and polygene *Li Yuanhong, et al*(52)
- Effect of nitrification inhibitor on rice seedling growth and soil nutrient changes *Dong Yubing, et al*(58)
- Comprehensive analysis of wheat grain characters based on different sowing dates *Zhang Guangxu, et al*(64)
- Basic agronomic study on one – time basal application of slow release fertilizer on yield and efficiency increase of rice
..... *Tian Wentao, et al*(71)
- Influences of seed soaking with melatonin on growth and physiology of quinoa under mixed salt – alkali stress
..... *Li Pingping, et al*(77)
- Effects of different straw returning methods on yield, soil nutrients and sucrase activity of wheat – maize rotation
..... *Wang Jing, et al*(85)
- Effects of drought stress on germination stage of barley seeds and evaluation of drought resistance *Peng Yulin, et al*(91)
- Screening and evaluation of alkali tolerance identification indexes of japonica rice in cold region
..... *Sun Xingrong, et al*(99)
- Study on mapping of maize growth period in Huang – Huai – Hai region *Wang Xiaowei, et al*(105)
- Effects of Mo and nitrogen species on nitrogen absorption, metabolism and root development of winter wheat with different
nitrogen efficiency *Zhang Minghui, et al*(114)

Plant Protection

- Inhibitory effect of endophytic bacteria on two pathogenic fungi in strawberry *Zhang Li, et al*(121)
- Evaluation of indoor biological activity of soil – treated herbicides on *Phalaris minor* *Tian Wuxue, et al*(128)

Horticulture and Forestry

Evaluation of drought resistance of six apple rootstock – spike combinations Yin Penglong ,et al(133)

Alleviating effect of exogenous spermidine on NaCl stress of strawberry Ma Yuanyuan ,et al(139)

Regulation of selenium on production of sweet cherry with high selenium and melatonin contents;a review
..... Sun Xieping ,et al(146)

Evaluation of sprouts characteristics of different mung bean (*Vigna radiata* L.) cultivars and selection of special cultivars
for sprouts Lyu Chongyang ,et al(152)

Influences of AM fungi and *Trichoderma viride* on growth,physiological characteristics and water use of apple seedlings
under drought stress Wang Jian ,et al(164)

Effects of calcium deficiency and magnesium deficiency on growth and mineral nutrient absorption and distribution of young
navel orange plants Zhang Yuanyuan ,et al(171)

Husbandry and Veterinary · Aquaculture and Sericulture

Impacts of *Schisandra chinensis* on intestinal microbiota in Tibetan chicken during egg – laying period
..... Yang Xiaozhi ,et al(180)

Expression and nanobody screening of porcine sialoadhesin receptor Hong Weiming ,et al(186)

Agricultural Engineering and Information Technology

Mobile – oriented plant disease image recognition method and its application Yang Xiang ,et al(191)

Study on calibration method of cassava seed stem simulation parameters based on discrete element
..... Chen Lintao ,et al(198)

Resources and Environment

Response of soil organic carbon composition and microbial functional diversity to tillage methods and straw mulch
..... Hu Yuehua(206)

Effects of combined application of low temperature biochar and chemical fertilizer on growth of winter wheat and bioavailability
of Pb and Cd in soil Peng Hongyu ,et al(212)

Influences of food waste moisture content and C/N ratio on gas release during breeding of black soldier fly larvae
(*Hermetia illucens* L.) Ye Mu ,et al(220)

Response of bacterial community in maize rhizosphere and non – rhizosphere soil to soil cover thickness in coal gangue
reclamation area Zhang Bianhua ,et al(226)

Ecological stoichiometry characteristics of carbon ,nitrogen and phosphorus in greenhouse soils Zhang Dageng ,et al(232)

Agricultural Economy and Management

Current situation ,major problems and countermeasures of grain industry development in Jiangsu Province
..... Zhou Liya ,et al(239)

Potential risks of international certification of raw materials for/from China’s labor – intensive industries and its countermeasures
—Taking cotton ,wood ,seafood products as examples Zhou Ruoyu ,et al(245)