

江苏农业科学

第 48 卷 第 15 期 2020 年 8 月 5 日

目 次

●“乡村振兴”专栏

- 农民工等人员返乡创业现状与模式探索——基于湖北省调研数据 闫华飞,肖 静(1)
- 乡村振兴战略视域下我国淘宝村治理创新及发展策略 彭 亮,高维新(8)
- 新型农业经营主体农业信息需求及付费意愿实证分析——基于全国 8 省(市、区)的调查
..... 魏同洋,杨 勇(13)

- 基于新型职业农民培育需求的农业职业教育发展研究 张晓燕(18)
- 党建视域下实施乡村振兴的若干矛盾分析 胡晓梅(22)
- 社会力量参与乡村文化振兴的实践困境与突破路径 胡铭焱(28)
- 微观尺度下莎车县乡村聚落演变及其影响机制 古力孜热·买买提,马利刚,王宏卫,等(33)

●专论与综述

- 植物灰霉病及抗性研究进展 陈宇春,陈 敏,王其刚,等(42)
- 江苏省农业种质资源保护与利用平台建设现状与发展建议 颜 伟,杨 欣,朱 银,等(52)
- 微生物菌剂在木本废弃物堆肥中的应用综述 孙 谱,孙婉蕾,石占成,等(57)
- 基于文献计量的农业信息化研究特征阐释与热点分析 毛先才,张红燕,刘亚文,等(64)
- 施用生物有机肥对土壤特性、作物品质及产量影响的研究进展 张 奇,张振华,陈雅玲,等(71)

●生物技术

- 注射用重组抗肿瘤坏死因子- α 人鼠嵌合单克隆抗体病毒去除/灭活工艺的建立及效果验证
..... 邵顺儒,杨冬芝,侯 盛,等(77)
- 美国红栎叶绿体基因组密码子偏好性分析 柳燕杰,田旭平,李 倩(83)
- 胡萝卜 1 个新 *4CL* 基因的克隆、进化及表达分析 罗 庆,钟秀来,卢 松,等(89)

●遗传育种与耕作栽培

- 盐胁迫对玉米毛状根植株根系及光合作用的影响 张晓婷,刘培源,田 媛,等(95)
- 水分和施氮量对亚热带一年两作玉米灌浆及产量的影响 胡雨欣,王桂阳,梁修仁,等(99)
- 玉米毛状根再生植株叶片光合特性对干旱胁迫和复水条件的响应 武 佶,王禹佳,张欣玥,等(106)
- 发根农杆菌与绿色木霉对玉米幼苗根系生长的影响 王禹佳,武 佶,李 享,等(112)
- 小麦抗赤霉病品种筛选 胡中泽,衣政伟,王 安,等(118)
- 不同播期对江苏徐州地区冬小麦土壤水分、生长发育及产量的影响 李 轲,张利华,吴世明,等(125)
- 山东省近 60 年主推冬小麦微量矿质元素变化 谢连杰,李娜娜,王海云,等(132)
- 滩涂盐碱地不同种植方式的生态效应及对棉花产量的影响 王永慧,孙艳茹,陈建平,等(137)

●植物保护

- 武汉蔬菜市场大白菜软腐病新病原菌鉴定 孙齐英,夏 明(141)
- 四川省 16 个小麦品种田间抗条锈病评价 蒋欣东,康晓慧,李 杰,等(144)
- 不同诱芯对草地贪夜蛾的田间诱集效果比较 梁 勇(148)

基于温湿度的酒葡萄炭疽病预报指标与模型	孙丽华,李瑞盈,杜建双(151)
---------------------------	------------------

●园艺与林学

江西省茶叶春霜冻发生的时空演变规律	陶 瑶,黄京平,余焰文,等(158)
东兴金花茶和长尾毛蕊茶光响应曲线拟合模型比较研究	秦惠珍,韦 霄,唐健民,等(165)
江苏省文化树种认知情况调查及园林应用建议	李祉宣,周 钰,陈赛赛,等(170)
宁陵酥梨气候品质认证技术研究	史桂芬,成 林,李国栋(176)
15 种大花月季在北疆地区的观赏特性综合评价	贾晓丽,陈忠萍,吴圆圆,等(182)
黄芪无公害栽培技术综述	李洪源,任伟超,孟祥霄,等(187)
北京天坛公园春季树木花粉飞散规律研究	周江鸿,夏 菲,刘育俭,等(192)
NaCl 胁迫下罗汉果幼苗生长和生理特性的变化	赵 英,何璐洁,邓 平,等(199)
刺葡萄生长发育规律及气象条件分析	易 永,张 伟,姚秋云,等(204)
赤霉素对灰枣光合特性日变化及坐果的影响	宋亚伟,陈 虹,胡安鸿,等(208)

●畜牧兽医与水产蚕桑

沼液养鱼对池塘水体环境及鱼品质的影响	陈一良,史 浩,戴 成,等(212)
单叶刺槐半同胞子代叶片饲用特性研究	徐立人,何可心,刘 宠,等(217)
14 株鸭疫里默氏杆菌的部分生物学特性分析	左春生,李迎晓,徐光科,等(221)
不同饲养方式对江城牛生长性能和屠宰性能的影响	和世春,程 月,李 清,等(226)

●贮藏加工与检测分析

低温处理对鲜切马铃薯片保鲜的影响	关正萍,郭少珏,肖春玲,等(230)
不同水质泡茶对武夷岩茶品质的影响	马春华,林志奎,朱雪芬,等(235)
微波辅助提取麻城福白菊绿原酸工艺的优化及其抗氧化活性	汪芷玥,周际松,汤 凯,等(240)
利用鸡蛋壳合成甘氨酸螯合钙及其螯合率的分析	闫宗兰,郑红霞,潘 虹,等(246)

●农业工程与信息技术

基于遗传算法的微藻类光分布模型参数优化	崔世钢,刘佳兴,张永立,等(250)
融合超像素分割算法与肢体特征的奶牛躯干精确分割方法	杨奕铭,邱馨瑶,宋怀波(253)
无斑肥螈的攀附能力和体表形貌	焦 庆,李 蒙,戴庆文,等(260)

●资源与环境

国家中心城市土地利用绩效评价及障碍度因子诊断——以郑州市为例	张 艳,胡征南,李照华,等(265)
基于 GIS 的一季稻县级精细化区划——以四川省旺苍县为例	王锐婷,邹雨伽,张玉芳(273)
我国主要农田土壤磷淋溶阈值及其与土壤性质的关系	于艳梅,柴泽宇,孙本华,等(281)
河北省城市土地经济密度时空差异研究	刘 航,但 臻,郭爱请(287)
棉秆炭基复合肥的特征及对土壤理化性质的改良效果	姜麟珂,郑文轩,杨 瑛(293)
乌拉特后旗荒漠区 8 种灌丛地上部生物量模型	赵宏胜,兰登明,冯 霜,等(297)

●农业经济与管理

不同农业生产结构的农户多目标行为决策 MAUT 分析——来自云南边境山区农户的实证调查	冯 璐,张 焱,李 勃(306)
“人口 - 土地 - 产业”非农化转型与农民收入的灰色关联分析	肖丽群,姚婷婷,刘宇滢(311)
农业科研单位推进消防安全治理体系和治理能力现代化的思考	左 铭,蒋志伟(316)
荔枝种植户生产规模经营的研究——基于广东省实地调研数据	齐文娥,宋凤仙,黎 璇,等(320)
农产品品牌价值因素与购买决策影响因子分析	郭莹莹,袁 超,于 芳,等(326)

JIANGSU AGRICULTURAL SCIENCES

Vol. 48 No. 15 August 5 2020

CONTENTS

Rural Revitalization

- Current situation and model exploration of migrant workers returning home to start their own businesses—Based on survey data of Hubei Province *Yan Huafei, et al*(1)
- Management innovation and development strategy of China's Taobao village from perspective of rural revitalization strategy *Peng Liang, et al*(8)
- Empirical analysis of agricultural information requirements and willingness to pay of new agricultural operators
—Based on survey of eight provinces and cities across China *Wei Tongyang, et al*(13)
- Study on development of agricultural vocational education based on cultivation demand of new professional farmers *Zhang Xiaoyan*(18)
- Analysis of some contradictions for implementation of rural revitalization from perspective of party construction *Hu Xiaomei*(22)
- Practical predicament and breakthrough path of social forces participating in revitalization of rural culture *Hu Minghan* (28)
- Evolution of rural settlement in Shache County and its influence mechanism under micro scale *Gulizire Maimaiti, et al*(33)

Monograph and Review

- Research progress of plant gray mold and resistance *Chen Yuchun, et al*(42)
- Current situation and development suggestions of Jiangsu provincial platform for conservation and utilization of agricultural germplasm *Yan Wei, et al*(52)
- Application of microbial agents in woody waste composting: a review *Sun Pu, et al*(57)
- Characteristic interpretation and hotspot analysis of agricultural informatization research based on bibliometrics *Mao Xiancai, et al*(64)
- Research progress on effects of application of bio – organic fertilizer on soil characteristics, crop quality and yield *Zhang Qi, et al*(71)

Bio-technology

- Development and verification of procedure for virus removal/inactivation in recombinant anti TNF – α human mouse chimeric monoclonal antibody for injection *Shao Shunru, et al*(77)
- Analysis of codon bias in chloroplast genome of *Fraxinus pennsylvanica* *Liu Yanjie, et al*(83)
- Cloning, evolution and expression of a new 4 – coumarate:CoA ligase gene in carrot (*Daucus carota* L.) *Luo Qing, et al*(89)

Genetics and Breeding • Tillage and Cultivation

- Effects of salt stress on roots and photosynthesis of maize hairy root regeneration plants *Zhang Xiaoting, et al*(95)
- Influences of water conditions and nitrogen amounts on grain filling characteristics and yield of double – cropped maize in subtropical area *Hu Yuxin, et al*(99)
- Responses of photosynthetic characteristics of maize hairy root regeneration plants to drought stress and re – watering conditions *Wu Ji, et al*(106)
- Effects of *Agrobacterium rhizogenes* and *Trichoderma viride* on root growth of maize seedlings *Wang Yujia, et al*(112)
- Screening of wheat cultivars with resistance to fusarium head blight *Hu Zhongze, et al*(118)
- Impacts of sowing date on soil moisture, growth and yield of winter wheat in Xuzhou, Jiangsu Province *Li Ke, et al*(125)
- Study on trace mineral elements change of main push winter wheat in Shandong Province in recent 60 years *Xie Lianjie, et al*(132)
- Ecological effects of different planting patterns and their influences on yield of cotton in coastal saline soil *Wang Yonghui, et al*(137)

Plant Protection

- Identification of new pathogen causing soft rot of Chinese cabbage in Wuhan vegetable market *Sun Qiying*(141)
- Evaluation of resistance to stripe rust of 16 wheat cultivars in Sichuan Province *Jiang Xindong, et al*(144)
- Comparison of trapping effects of different sex attractants on *Spodoptera frugiperda* *Liang Yong* (148)

Forecasting index and model of wine grape anthracnose based on temperature and humidity Sun Lihua,et al(151)

Horticulture and Forestry

Spatial and temporal evolution laws of tea spring frost in Jiangxi Province Tao Yao,et al(158)

Comparative study on fitting models of photosynthetic response curves between *Camellia tunghinensis* Chang and *Camellia caudata* Wall. Qin Huizhen,et al(165)

Investigation on cognition of cultural tree species in Jiangsu Province and suggestions for garden application Li Zhixuan,et al(170)

Study on climate quality certification technology of Ningling crisp pear Shi Guifen,et al(176)

Comprehensive evaluation of ornamental characteristics of fifteen kinds of large flower roses in northern Xinjiang Jia Xiaoli,et al(182)

Pollution – free cultivation system of *Astragalus membranaceus*:a review Li Hongyuan,et al(187)

Study on dispersal regularity of airborne tree pollens in spring in Heaven Park Temple of Beijing City Zhou Jianghong,et al(192)

Changes of growth and physiological characteristics of *Siraitia grosvenorii* seedlings under salt stress Zhao Ying,et al(199)

Analysis of growth and meteorological conditions of *Vitis davidii* Yi Yong,et al(204)

Effects of gibberellin on diurnal variation of photosynthetic characteristics and fruit setting of grey jujube Song Yawei,et al(208)

Husbandry and Veterinary • Aquaculture and Sericulture

Influences of fish culture with biogas slurry on water environment and fish quality Chen Yiliang,et al(212)

Study on feeding characteristics of leaves of half sib progenies of *Robinia. pseudoacacia* f. *unifolia* Xu Liren,et al(217)

Partial biological characteristics of 14 strains of *Riemerella anatipestifer* from ducks Zuo Chunsheng,et al(221)

Effects of different feeding methods on growth performance and slaughter performance of Jiangcheng cattle He Shichun,et al(226)

Storage and Processing • Detection

Impact of low temperature treatments on preservation of fresh – cut potato slices Guan Zhengping,et al(230)

Effect of different water on quality of Wuyi Rock tea Ma Chunhua,et al(235)

Optimization of microwave – assisted extraction process of chlorogenic acid from Macheng *Chrysanthemum morifolium* and its antioxidant activity Wang Zhiyue,et al(240)

Study on synthesis of calcium glycine chelate from eggshells and analysis of its chelating rate Yan Zonglan,et al(246)

Agricultural Engineering and Information Technology

Parameter optimization of microalgae light distribution model based on genetic algorithm Cui Shigang,et al(250)

An accurate segmentation method for cow trunk based on fusion of superpixel segmentation algorithm and body features Yang Yiming,et al(253)

Study on climbing ability and surface morphology of spotless stout newt Jiao Qing,et al(260)

Resources and Environment

Evaluation of land use performance and diagnosis of obstacles in national central cities—Taking Zhengzhou City as an example Zhang Yan,et al(265)

GIS – based fine – grained regionalization of one – crop rice at county level—Taking Wangcang County of Sichuan Province as an example Wang Ruiting,et al(273)

Phosphorus leaching threshold of China’s main farmland soils and its relationship with soil properties Yu Yanmei,et al(281)

Study on temporal and spatial differences of urban land economic density in Hebei Province Liu Hang,et al(287)

Characteristics of cotton stalk carbon – based compound fertilizer and its improvement effect on soil physical and chemical properties Jiang Linke,et al(293)

Aboveground biomass models of eight shrub species in desert area of Wulatehou Banner Zhao Hongsheng,et al(297)

Agricultural Economy and Management

MAUT analysis of multi – objective behavior decisions of rural households with different agricultural production structures —An empirical survey of rural households from border mountainous areas in Yunnan Province Feng Lu,et al(306)

Grey correlation analysis between non – agricultural transformation of “population – land – industry” and farmers’ income Xiao Liquan,et al(311)

Thoughts on promoting modernization of fire control safety management system and management capacity in agricultural scientific research units Zuo Ming,et al(316)

Study on production scale management of litchi farmers – based on field research data of Guangdong Province Qi Wen’e,et al(320)

Study on brand value factors of agricultural products and impact factors of purchase decision Guo Yingying,et al(326)