

目 次

植物保护前沿

智慧植保及其发展建议 王海光(1)

侵染早期小麦叶锈菌相关基因的筛选及表达分析

..... 张艺博 路亚南 刘娜 肖继斌 李闯 程琨 邢国珍 马振玲 郑文明(22)

微生物菌剂对设施辣椒秸秆原位堆肥土壤理化性质及细菌群落的影响

..... 李雪菲 靳拓 张凯 严昌荣 丁超武 刘勤(33)

土壤盐渍化对玉米田杂草群落多样性和玉米产量的影响

..... 魏天娇 关法春 梁正伟 解娇 张永锋 黄立华 王明明 陆冠茹(44)

微喷灌下不同氮肥基追比对冬小麦产量和品质的影响

..... 姚春生 卢崇靖 孙婉 刘洋 张震 王志敏 张英华(54)

施用不同有机物料对砂质土壤玉米成熟期根际细菌群落变化的影响

..... 郝近羽 刘瑾 陈源泉 代红翠 李超 徐洁 隋鹏(65)

山西省典型粮食作物水分生态适应性研究

..... 职微微 李平春 李梦娜 祁云蛟 陈阜 雷永登(80)

地膜覆盖与肥料种类对寒地水稻产量和品质的影响

..... 付旭坤 刘宝龙 高大鹏 刘月月 关政闻
张兴方 郭丽颖 邵玺文 耿艳秋(87)

灌水定额和施肥量对膜下滴灌马铃薯产量及水肥利用效率的影响

..... 李森 王凤新 赵健宇 李斌 费娜 房祥国(100)

旋转式多比例分样方法对作物籽粒分样效果的研究

..... 杨富淇 谢美西 薛鸣星 高中斗 谢光辉(111)

基于文献计量的我国宠物相关领域研究发展态势分析 林梦漫 杨玉香 孟利民(120)

小鼠感染 BVDV 诱导 NLRP3 炎症小体的表达及其对病毒复制的影响

..... 刘思雨 张月莹 黄江 崔月琦 刘宇 周玉龙 朱战波 张泽财(134)

苦参碱抗 PCV2 诱导小鼠肺炎的作用及其机制研究

..... 孙娜 张司寰 岑龙座 曹志刚 张华 孙盼盼
孙耀贵 范阔海 尹伟 李宏全(142)

梅花鹿茸生长过程中顶端不同组织 COL1A1 基因启动子 DNA 甲基化模式及差异分析

..... 张芙蓉 韩若冰 郭梦雅 赵洵武 李和平(153)

猪舍步进式自动清粪系统曲柄连杆传动机构设计与试验

..... 曾雅琼 杨佳乐 陈刚 王浩 刘作华 龙定彪(164)

丘陵山地拖拉机加载仿形试验台设计

..... 朱忠祥 陈一明 翟志强 朱少华 毛恩荣(173)

中强脉冲电场叉指式平板处理室的多物理场仿真与试验

..... 王思敏 甘芝霖 孙爱东 孙铭爽(186)

内蒙古自治区生态福利绩效评估及其驱动效应分解

..... 姜世忠 侯林秀 费陶 陆学岩 哈斯娜 温璐 王立新(196)

河西走廊植被水碳通量对气候变化和人类活动的响应

..... 吴昕蕾 范云飞 康德奎 何玉江 王素芬(212)

农户绿色生产技术采纳行为及其效应

——以测土配方施肥技术为例 邝佛缘 金建君 邱欣(226)

农地转入能否促农户采纳有机肥技术?

——一个主体行为能力视角的解释 岳梦 张露 万江红(236)

自主创业经验有益于农户电商参与吗? 王翠翠 夏春萍 童庆蒙 石苗苗(249)

社会资本对农民工工资及工资差距的影响 李珊珊 李晓峰(261)

中国对非洲农产品出口贸易的空间格局及影响因素 潘子纯 李 明 朱玉春(273)

CONTENTS

Plant Protection

- Smart phytoprotection and suggestions for its development WANG Haiguang (1)
- Screening and expression analysis of candidate genes related to early infection of *Puccinia triticina* ZHANG Yibo, LU Yanan, LIU Na, XIAO Jibin, LI Chuang, CHENG Kun, XING Guozhen, MA Zhenling, ZHENG Wenming (22)
- Effects of microbial agents on the physical and chemical properties and bacterial community of pepper straw in situ composting soil LI Xuefei, JIN Tuo, ZHANG Kai, YAN Changrong, DING Chaowu, LIU Qin (33)
- Effects of soil salinization on weed community diversity in maize field and maize yield WEI Tianjiao, GUAN Fachun, LIANG Zhengwei, XIE Jiao, ZHANG Yongfeng, HUANG Lihua, WANG Mingming, LU Guanru (44)
- Effects of different basal and topdressing ratios of nitrogen fertilizer on yield and quality of winter wheat under micro-sprinkling irrigation YAO Chunsheng, LU Chongjing, SUN Wan, LIU Yang, ZHANG Zhen, WANG Zhimin, ZHANG Yinghua (54)
- Effects of application different organic materials on the bacterial community of maize rhizosphere in sandy soil at the maturity stage HAO Jinyu, LIU Jin, CHEN Yuanquan, DAI Hongcui, LI Chao, XU Jie, SUI Peng (65)
- Study on water ecological adaptability of typical grain crops in Shanxi Province ZHI Weiwei, LI Pingchun, LI Mengna, QI Yunjiao, CHEN Fu, LEI Yongdeng (80)
- Effects of plastic film mulching and fertilizer type on the yield and quality of rice in cold regions FU Xukun, LIU Baolong, GAO Dapeng, LIU Yueyue, GUAN Zhengwen, ZHANG Xingfang, GUO Liying, SHAO Xiwen, GENG Yanqiu (87)
- Effects of irrigation quota and potassium application rate on the growth, yield and water and fertilizer use efficiency of potato under drip irrigation and plastic film mulching LI Miao, WANG Fengxin, ZHAO Jianyu, LI Bin, FEI Na, FANG Xiangguo (100)
- Effects of rotating multi-proportion sample division method on the crop seeds sample separation YANG Fuqi, XIE Meixi, XUE Mingxing, GAO Zhongdou, XIE Guanghui (111)
- Development trend analysis of pet related research fields in China based on bibliometrics LIN Mengman, YANG Yuxiang, MENG Limin (120)
- Differential expression of NLRP3 inflammasome induced by BVDV infection in mice and its effect on virus replication LIU Siyu, ZHANG Yueying, HUANG Jiang, CUI Yueqi, LIU Yu, ZHOU Yulong, ZHU Zhanbo, ZHANG Zecai (134)

- Effect and mechanisms of matrine inhibits PCV2-induced pneumonia in mice
..... SUN Na , ZHANG Sihuan , CEN Longzuo , CAO Zhigang , ZHANG Hua ,
SUN Panpan , SUN Yaogui , FAN Kuohai , YIN Wei , LI Hongquan(142)
- DNA methylation and differential analysis of COL1A1 gene promoter in the
different tissues of antler top during the antler growing in sika deer (*Cervus nippon*)
..... ZHANG Furui , HAN Ruobing , GUO Mengya , ZHAO Xunwu , LI Heping(153)
- Design and experiment of crank connecting rod transmission mechanism
for pig house stepping manure scraping system ZENG Yaqiong , YANG Jiale ,
CHEN Gang , WANG Hao , LIU Zuohua , LONG Dingbiao(164)
- Design of the profiling test-bed for tractor loading in hills
..... ZHU Zhongxiang , CHEN Yiming , ZHAI Zhiqiang , ZHU Shaohua , MAO Enrong(173)
- Multi-physical field simulation and experiments of parallel treatment chamber
with interdigital structure under moderate intensity pulsed electric fields
..... WANG Simin , GAN Zhilin , SUN Aidong , SUN Mingshuang(186)
- Eco-welfare performance assessment and its driving effects decomposition in Inner Mongolia
..... JIANG Shizhong , HOU Linxiu , FEI Tao , LU Xueyan ,
HA Sina , WEN Lu , WANG Lixin(196)
- Responses of vegetation water and carbon fluxes to climate change and human activities in Hexi Corridor
..... WU Xinlei , FAN Yunfei , KANG Dekui , HE Yujiang , WANG Sufen(212)
- Farmers' adoption behavior of green production technology and its effects:
A case study of soil testing and formula fertilization technology
..... KUANG Foyuan , JIN Jianjun , QIU Xin(226)
- Can the expansion of land scale promote farmers to adopt organic fertilizer technology?:
An explaination from the perspective of the subject capacity
..... YUE Meng , ZHANG Lu , WAN Jianghong(236)
- Is self-employment experience beneficial to farmers' participation in e-commerce?
..... WANG Cuicui , XIA Chunping , TONG Qingmeng , SHI Miaomiao(249)
- Influence of social capital on the wage and wage gap of migrant workers
..... LI Shanshan , LI Xiaofeng(261)
- Spatial pattern of China's agricultural export to Africa and its influencing factors
..... PAN Zichun , LI Ming , ZHU Yuchun(273)