

植物保护学报

第51卷 第1期

目 次

文献综述

- 上行效应与下行效应在番茄潜叶蛾防控中的应用 胡珊珊 谢丹 Ismoilov Khasan 王明慧 韩鹏 (1)
氮添加调控陆地昆虫食物网的级联效应 刘婧茜 张蓉 朱猛蒙 赵紫华 (12)

研究论文

- 麦二叉蚜唾液蛋白基因 *Sg1655* 时空表达谱及其抑制小麦防御反应的功能 孙钰 张雨濛 刘晓蓓 陈巨莲 张勇 解海翠 (20)
黏虫丝氨酸蛋白酶抑制剂基因的克隆及抗球孢白僵菌功能分析 张春雨 杨洪佳 胡育硕 王艺晓 樊东 (28)
不同功能植物对棉花蚜虫及其捕食性天敌的影响 彭雪凡 周晓通 维尼热·买合木提 上官一磊 戈峰 张建萍 蔡志平 (39)
成株期小麦对荻草谷网蚜的田间抗蚜性和耐蚜性评价 胡想顺 赵洁 姜子河 韩顺琴 蔚睿 吴舒舒 王建锋 赵惠燕 刘同先 韩德俊 (50)
内共生菌 *Buchnera* 协助蚜虫抑制寄主植物的防御反应 卢盈希 杨青兰 康涵韦 冯婧婧 宁干喜 王永模 (69)
异色瓢虫人工繁育中滞育成虫的冷藏条件 李贝 李家旭 刘文 王小平 (78)
繁育寄主植物对浅黄恩蚜小蜂生防潜能的影响 赵悦 钱胤凯 章思腾 张凯 张俊杰 王晶 (88)
异色瓢虫对苹果-蛇床草微景观中两种蚜虫的捕食功能反应及选择偏好性 蔡志平 张兴瑞 肖云丽 张建萍 戈峰 (96)
密度对甜菜夜蛾幼虫色型分化的影响 李家旭 龚建福 刘文 王攀 司升云 王小平 (106)
吲哚诱导对茶树抗茶小绿叶蝉的影响 吕晓彤 周孝森 邹佳婷 辛肇军 蔡晓明 罗学平 蔡红兵 边磊 (114)
食物对兹沃尔新小缓螨生长发育和繁殖的影响 马敏 焦硕 刘宇 王恩东 范青海 (123)
2021年湖南省草地贪夜蛾迁飞路径及虫源地分析 谭泗桥 王梓轩 何健璇 马智能 尹丽 张政兵 张永生 (132)
美国白蛾入侵江西省及其各市的综合风险分析 常祥琪 严璇 严婧 李冬 梁玉勇 曾菊平 (141)
宁夏回族自治区和浙江省光肩星天牛对柳属植物的寄主适应性 郭帅 谷奇 陆鹏飞 乔海莉 李玉春 (154)
南疆杏李园梨小食心虫成虫消长动态及迷向防治效果 曹华毅 杨龙 潘云飞 王亚桥 冯宏祖 陆宴辉 (170)
绿僵菌与FKBP52联合使用对西瓜蓟马的毒力 尹仙枫 朱凯辉 王芳 张蓉 王福莲 涂雄兵 (178)
微生物杀虫剂联合施用对草地贪夜蛾幼虫的防治效果 朱凯辉 贾静静 秦双 涂雄兵 吉训聪 (186)
异烟酸甲酯/ α -环糊精微胶囊制备及其对蓟马的引诱效果分析 陈艺欣 林硕 田厚军 林凌鸿 李恒 陈勇 魏辉 (193)
球孢白僵菌定殖提高番茄对灰霉病抗性及其作用机理 隋丽路 杨周麟妍 李南楠 张正坤 李启云 (203)
利用CRISPR/Cas13a编辑技术获得马铃薯抗PVX植株 涂振 钟子旸 陈汝豪 杨曼华 詹晓慧 陈家茹 马恢 聂碧华 (211)
禾谷镰刀菌-玉米互作根系分泌物组分的鉴定及其抑菌活性分析 王云江 林杨倩 谢珊珊 (219)
117个玉米品种对禾谷镰孢根腐病的抗性鉴定及根腐病对苗势与产量的影响 金嵘 贾娇 吴宏斌 柴海燕 苏义臣 苏前富 (228)
83份西农系小麦品种(系)抗性鉴定及抗病基因分子检测 程蓬 郭璇 辛秀丽 全嘉垚 解慕华 郭梦莹 郝肖娜 元魏魏 李强 王保通 (237)
苹果树腐烂病菌 *VmMFS1~VmMFS3* 基因的功能分析 张琼 刘昭阳 高承宇 杜旋 冯浩 黄丽丽 (249)
拟南芥转录因子IDD4不同突变体对灰葡萄孢菌的抗性分析 李林倩 张豪 徐晓东 于德嘉 张国斌 鲁旭蓉 陈健鑫 王云月 杨红玉 (261)

JOURNAL OF PLANT PROTECTION

2024 Vol. 51 No. 1

CONTENTS

Reviews

- Integrated management of tomato leaf miner *Tuta absoluta* via bottom-up and top-down effects Hu Shanshan, et al. (1)
Nitrogen addition regulates cascade effects of food webs on grassland insects Liu Jingxi, et al. (12)

Research reports

- Spatio-temporal expression profiles and functional suppression of wheat defense responses by a salivary protein gene, *Sg1655*, from the spring-grain aphid *Schizaphis graminum* Sun Yu, et al. (20)
Cloning of the serine protease inhibitor from oriental armyworm *Mythimna separata* and analysis of its anti-*Beauveria bassiana* function Zhang Chunyu, et al. (28)
Effects of different functional plants on cotton aphids and their predatory natural enemies Peng Xuefan, et al. (39)
An evaluation of resistance and tolerance of wheat varieties to the grain aphid *Sitobion miscanthi* at the adult stage in the field Hu Xiangshun, et al. (50)
Aphid endosymbiont *Buchnera* assists the aphid in inhibiting plant defenses Lu Yingxi, et al. (69)
Cold storage for artificial rearing of diapause adults of multicolored Asian lady beetle *Harmonia axyridis* Li Bei, et al. (78)
Effects of breeding host plants on the biocontrol potential of *Encarsia sophia* against whitefly pests Zhao Yue, et al. (88)
Functional response and predation preference of multicolored Asian lady beetle *Harmonia axyridis* to two aphids in the micro-landscape of apple and Monnier's snowparsley *Cnidium monnieri* Cai Zhiping, et al. (96)
Effect of density on the larval color morph differentiation in beet armyworm *Spodoptera exigua* Li Jiaxu, et al. (106)
Effect of indole treatment on the resistance to tea tree tea leafhopper *Emoasca onukii* Lü Xiaotong, et al. (114)
Effects of diets on the growth, development, and reproduction of the predatory mite *Neoseiulus zweelferi* Ma Min, et al. (123)
Analysis of the migration path and source areas of fall armyworm *Spodoptera frugiperda* in Hunan Province in 2021 Tan Siqiao, et al. (132)
Comprehensive risk analysis of fall webworm *Hyphantria cunea* invasion in Jiangxi Province and its cities Chang Xiangqi, et al. (141)
Host adaptation of Asian longhorn beetle *Anoplophora glabripennis* to *Salix* species in Ningxia and Zhejiang, China Guo Shuai, et al. (154)
Adult population dynamic of the oriental fruit moth *Grapholita molesta* and the control efficacy of sex pheromone disorientation against it in a plumcot orchard in southern Xinjiang Cao Huayi, et al. (170)
Synergistic toxicity of *Metarhizium anisopliae* and FKBP52 against the western flower thrips *Frankliniella occidentalis* Yin Xianfeng, et al. (178)
Control effect of insect pathogenic fungi combined with biogenic insecticides on the larvae of fall armyworm *Spodoptera frugiperda* Zhu Kaihui, et al. (186)
Preparation of methyl isonicotinate/ α -cyclodextrin microcapsules and their attractant effect on thrips Chen Yixin, et al. (193)
Enhanced tomato resistance to gray mold by fungus *Beauveria bassiana* colonization and its mechanism of action Sui Li, et al. (203)
Generation of PVX resistant potato plants by CRISPR/Cas13a editing technology Tu Zhen, et al. (211)
Identification of root exudate components during the *Fusarium graminearum*-maize interaction and their antifungal activity Wang Yun, et al. (219)
Identification for resistance of 117 maize varieties against root rot caused by phytopathogenic fungus *Fusarium graminearum* and the effects of root rot on seedling vigor and yield Jin Rong, et al. (228)
Disease resistance evaluation and molecular detection of resistance genes of 83 Xinong wheat varieties (lines) Cheng Peng, et al. (237)
Functional analysis of three facilitator superfamily protein genes *VmMFS1–VmMFS3* in apple *Valsa* canker pathogen *Valsa mali* Zhang Qiong, et al. (249)
Analysis of resistance of different mutants of IDD4 transcription factor to fungal pathogen *Botrytis cinerea* in *Arabidopsis thaliana* Li Linqian, et al. (261)