



ISSN 0529-1542
CN 11-1982/S

植物保护 Plant Protection

植物保护

Plant Protection

全国中文核心期刊
中国科技核心期刊
RCCSE中国核心学术期刊
CSCD来源期刊

(110111) 第四十八卷第五期



Vol.48 No.5 Oct., 2022

ISSN 0529-1542



主办

中国植物保护学会
China Society of Plant Protection
中国农业科学院植物保护研究所
Institute of Plant Protection, CAAS

5

第48卷
2022年10月

目 次

专论与综述

- 中药材中农药残留现状及标准体系建设研究进展
肖欧丽, 李敏敏, 李瑞理, 等(1)
- 喷施诱导的基因沉默(SIGS)技术控制植物病害研究进展
陈夕军, 石童, 陈宸, 等(15)
- 两种平腹小蜂的研究进展
赵灿, 张宝鑫, 李敦松(23)
- 综合节肢动物对作物的危害及其防治研究进展
靳亚丽, 卜云(30)

研究报告

- 辣椒田蓟马及主要捕食性天敌昆虫种类与时间生态位
胡昌雄, 李宜儒, 吕布典, 等(38)
- 副珠蜡蚧柄柄跳小蜂对蓝色长盾金小蜂寄生橡副珠蜡蚧的干扰作用
杨美娟, 李贤, 陈俊谕, 等(47)
- 新疆泽普县小麦白粉病流行的时间动态及预测模型
聂晓, 周婷婷, 沈煜洋, 等(54)
- 烟芽夜蛾囊泡病毒 3h 株 3h-122 基因于棉铃虫幼虫体内的转录表达分析
赵莹, 谭赞, 黎妮, 等(60)
- 取食不同猎物对黄带犀猎蝽生长发育和繁殖的影响
陈苏怡, 李永青, 石安宪, 等(68)
- 除草剂乙草胺胁迫下油菜品种的耐药生理研究
丁戈, 熊洁, 陈伦林, 等(75)
- 广东花生丛枝病植原体的分子鉴定
汤亚飞, 林祺, 余小漫, 等(83)
- 产气克雷伯氏杆菌 *Klebsiella aerogenes* S2 对植物病原真菌的抑菌活性及番茄促生效果
杨森冷, 王威, 申乃坤, 等(91)
- 叶绿素荧光成像技术监测苗期小麦白粉病初探
单鼎城, 赵亚男, 张美惠, 等(99)
- 不同地理来源的拟禾本科根结线虫对温度胁迫的耐受性
彭思源, 喻曼, 丁中, 等(108)
- 番茄黄化曲叶病毒与番茄褪绿病毒复合感染对番茄黄化曲叶病毒传播的影响
罗瑞雪, 赵丹, 潘求一, 等(116)
- 斜纹夜蛾取食为害对大豆农艺性状和土壤酶活性的影响
龙莹, 刘建萍, 李晓红(122)
- 金龟子绿僵菌对黄曲条跳甲体内保护酶活性的影响
蒋春艳(129)
- 化学防治对皖南烟区蜘蛛群落多样性的影响
张锐, 李晨, 张丽娜, 等(134)
- 温度对烟草赤星病菌生物学特性及代谢表型的影响
刘亭亭, 汪汉成, 蔡刘体, 等(141)
- 川芎、干姜和穿心莲提取物及其组合抑菌活性研究
赵晴, 张智蕊, 徐风波, 等(149)
- 气候变化情景下基于 MaxEnt 的麦瘟病在全球及中国的适生性分析
杜志宏, 刘伟, 曹学仁, 等(158)
- 安徽省小麦赤霉病气象风险评估与区划
岳伟, 陈曦, 姚卫平, 等(167)
- 小花尺蛾触角感器扫描电镜观察
王京枫, 庄宇彤, 罗雨昕, 等(174)
- 贵州八角叶枯病病原菌鉴定及生物学特性研究
张晓勇, 邹东霞, 张凤, 等(183)
- 四川凉山苦荞种子携带细菌多样性
白凯红, 阿别小兵, 陈星, 等(190)
- 一株高地芽胞杆菌 D30202 的抑草活性及作用机制初探
张秀雨, 李伟佳, 沈硕(197)
- 八角炭疽病生防菌株筛选及发酵条件研究
刘连金, 李正令, 李雪理, 等(204)

实验方法与技术

- 种子种苗上黄瓜绿斑花叶病毒 IC-RT-PCR 检测方法的建立及应用
任春梅, 杨柳, 缪倩, 等(212)
- 基于 TaqMan MGB 探针的可可花瘦病菌快速检测方法
吕燕, 郭立新, 段维军(220)
- 引起浙贝母黑斑病的交链格孢单抗及检测试纸条的制备
温思思, 赵福运, 郭飘逸, 等(227)
- 农药制剂中异硫氰酸烯丙酯气相色谱分析方法
朱峰, 廖国会, 张海艳, 等(234)
- 植物诱抗剂 AHO 联合茎尖培养脱除马铃薯 S 病毒和马铃薯 Y 病毒
张丽珍, 赵立华, 吴阔, 等(239)

研究简报

- 短期低、高温对草地贪夜蛾蛹和成虫的影响
杨艺炜, 袁冬贞, 谢飞舟, 等(246)
- 畸形桑叶中病毒的鉴定及其小 RNA 特征分析
孔卫青, 凌君, 杨金宏(251)
- 安徽省太和县中国南瓜曲叶病毒自然侵染南瓜的检测分析
陈莹, 马超, 郭志, 等(256)
- 粗茎秦艽根结线虫病的病原鉴定
李云霞, 杨艳梅, 李朝凤, 等(261)
- 广西南宁避雨栽培葡萄炭疽病的病原菌鉴定
谭海芸, 吴林娜, 张玮, 等(269)
- 茼蒿叶斑病原菌的鉴定及室内药剂筛选
曾蓉, 徐丽慧, 高士刚, 等(274)

调查研究

- 我国城乡泡桐丛枝病区域差异因子分析
孔德治, 田国忠, 张文鑫, 等(280)
- 2018 年—2019 年重庆蚕豆赤斑病发生情况及预测模型的建立
龙珏臣, 杜成章, 王萍, 等(291)
- 绿盲蝽越冬卵在苹果园中的空间分布型及抽样技术
苏恒, 李国平, 孙小旭, 等(298)
- 植保无人机低容量喷雾防除玉米田杂草的雾滴沉积特性及除草效果
范明洪, 兰玉彬, 赵德楠, 等(304)
- 安徽发现草地贪夜蛾为害水稻秧苗
徐丽娜, 陈永田, 徐婷婷, 等(310)
- 新疆伊犁州小麦条锈菌生理小种鉴定及毒性分析
刘琦, 陈利, 曾明昊, 等(314)
- 佛山山药线虫病发生调查与病原鉴定
杨小林, 李梦欢, 何中华, 等(320)
- 2019 年—2020 年甘肃省小麦条锈菌生理小种变异监测
贾秋珍, 曹世勤, 王晓明, 等(327)

技术与应用

- 30% 吡啶·丙草胺乳油等量施药的次数及时间对稻田除草效果的影响
史骏, 陈若霞, 柴伟纲, 等(333)
- 几种封闭除草剂两个时期用药效果对比及其交互作用分析
杨永杰, 张慧泉, 金文涌, 等(341)
- 不同种子处理对苗期小麦草地贪夜蛾的室内防治效果
徐丽娜, 徐婷婷, 佟强, 等(348)
- 13 种杀菌剂对水稻胡麻叶斑病防效研究
冯爱卿, 朱小源, 汪聪颖, 等(352)
- 封面照片 黄带犀猎蝽 *Sycanus croceovittatus* 陈苏怡摄
- 广告 中保科技(封二); 瑞德丰(插一); 植物保护(插二); 中捷四方(封三); 佳多(封底)

CONTENTS

The status quo of pesticide residues in Chinese medicinal materials and the construction of a standard system
..... XIAO Ouli, LI Minmin, LI Ruixing, et al(1)

Advances in the control of plant diseases via spray-induced gene silencing CHEN Xijun, SHI Tong, CHEN Chen, et al(15)

Advances in two species of *Anastatus* ZHAO Can, ZHANG Baoxin, LI Dunsong(23)

Research progresses in the damage of symphylan pests to crops and their control JIN Yali, BU Yun(30)

Species and temporal niches of thrips and their main predatory insects in *Capsicum annuum* fields
..... HU Changxiong, LI Yiru, LÜ Budian, et al(38)

Interference of the parasitism of *Scutellista caerulea* on *Parasaissetia nigra* by *Metaphycus parasaissetiae*
..... YANG Meijuan, LI Xian, CHEN Junyu, et al(47)

Temporal dynamics and forecasting models of wheat powdery mildew in Zepu county of Xinjiang
..... NIE Xiao, ZHOU Tingting, SHEN Yuyang, et al(54)

Transcription and expression analysis of 3h-122 gene of *Heliothis virescens* ascovirus 3h in *Helicoverpa armigera* larvae
..... ZHAO Ying, TAN Yun, LI Ni, et al(60)

Effects of prey species on growth, development and reproduction of *Sycanus croceovittatus*
..... CHEN Suyi, LI Yongqing, SHI Anxian, et al(68)

Tolerance physiology of rapeseed varieties under herbicide acetochlor stress DING Ge, XIONG Jie, CHEN Lunlin, et al(75)

Molecular identification of peanut witches'-broom phytoplasma in Guangdong province
..... TANG Yafei, LIN Qi, SHE Xiaoman, et al(83)

Antifungal activity of *Klebsiella aerogenes* S2 against plant pathogenic fungi and its growth promotion to tomato
..... YANG Miaoling, WANG Wei, SHEN Naikun, et al(91)

A preliminary study on the monitoring of wheat powdery mildew at seedling stage based on chlorophyll fluorescence imaging technology
..... SHAN Dingcheng, ZHAO Yanan, ZHANG Meihui, et al(99)

Tolerance of different geographical populations of *Meloidogyne graminicola* to temperature stress
..... PENG Siyuan, YU Man, DING Zhong, et al(108)

Influences of co-infection of tomato yellow leaf curl virus and tomato chlorosis virus on the transmission of tomato yellow leaf curl virus
..... LUO Ruixue, ZHAO Dan, PAN Qiuyi, et al(116)

Effects of *Spodoptera litura* feeding on soybean agronomic characters and soil enzyme activities
..... LONG Ying, LIU Jianping, LI Xiaohong(122)

Effects of infection by *Metarhizium anisopliae* on the activities of protective enzymes in *Phyllotreta striolata* JIANG Chunyan(129)

Effects of chemical control on the diversity of spider community in tobacco-growing areas of South Anhui
..... ZHANG Rui, LI Chen, ZHANG Lina, et al(134)

Effects of temperature on the biological characteristics and metabolic phenotype of *Alternaria alternata*
..... LIU Tingting, WANG Hancheng, CAI Liuti, et al(141)

Antifungal activities of the extracts from Chuanxiong Rhizoma, Zingiberis Rhizoma and Andrographis Herba and their combinations
..... ZHAO Qing, ZHANG Zhirui, XU Fengbo, et al(149)

Suitability analysis of wheat blast in the world and China under climate change scenarios based on MaxEnt
..... DU Zhihong, LIU Wei, CAO Xueren, et al(158)

Meteorological risk assessment and regionalization of wheat scab in Anhui province
..... YUE Wei, CHEN Xi, YAO Weiping, et al(167)

Scanning electron microscopic observation on antennal sensilla of *Eupithecia abietaria debrunneata*
..... WANG Jingfeng, ZHUANG Yutong, LUO Yuxin, et al(174)

Identification and biological characteristics of a new pathogen causing the leaf blight of star anise in Guizhou province
..... ZHANG Xiaoyong, ZOU Dongxia, ZHANG Feng, et al(183)

- Bacterial diversity of the tartary buckwheat seeds from Liangshan, Sichuan province
..... BAI Kaihong, A'BIE Xiaobing, CHEN Xing, et al(190)
- Preliminary study on the herbicidal activity and mechanism of *Bacillus altitudinis* D30202
..... ZHANG Xiuyu, LI Weijia, SHEN Shuo(197)
- Screening and fermentation conditions of biocontrol bacteria for anthracnose of star anise
..... LIU Lianjin, LI Zhengling, LI Xueli, et al(204)
- Establishment and application of IC-RT-PCR for cucumber green mottle mosaic virus in seeds and seedlings
..... REN Chunmei, YANG Liu, MIAO Qian, et al(212)
- Development of *TaqMan* MGB fluorescent real-time PCR assay for detection of *Albonectria rigidiuscula*
..... LÜ Yan, GUO Lixin, DUAN Weijun(220)
- Preparation of monoclonal antibody and test strips for *Alternaria alternata* causing black spot disease of *Fritillaria thunbergii*
..... WEN Sisi, ZHAO Fuyun, GUO Piaoyi, et al(227)
- Analysis of allyl isothiocyanate in pesticide formulations by GC ZHU Feng, LIAO Guohui, ZHANG Haiyan, et al(234)
- Elimination of potato virus S and potato virus Y by plant resistance inducer AHO combined with shoot tip culture
..... ZHANG Lizhen, ZHAO Lihua, WU Kuo, et al(239)
- Impact of short-term low or high temperature on pupa and adult survival, development and fecundity of *Spodoptera frugiperda*
..... YANG Yiwei, YUAN Dongzhen, XIE Feizhou, et al(246)
- Identification and analysis of viruses and small RNA in deformed mulberry leaves
..... KONG Weiqing, LING Jun, YANG Jinhong(251)
- Detection and analysis of squash leaf curl China virus naturally infecting pumpkin in Taihe, Anhui province
..... CHEN Ying, MA Chao, GUO Zhi, et al(256)
- Pathogen identification of root-knot nematode disease of *Gentiana crassicaulis* Duthie ex Burk.
..... LI Yunxia, YANG Yanmei, LI Chaofeng, et al(261)
- Identification of the pathogen of grape anthracnose in Nanning, Guangxi TAN Haiyun, WU Linna, ZHANG Wei, et al(269)
- Identification of the pathogen causing leaf spot on *Glebionis coronaria* and fungicide screening *in vitro*
..... ZENG Rong, XU Lihui, GAO Shigang, et al(274)
- Affection factors of the regional difference of paulownia witches'-broom disease in urban and rural districts of China
..... KONG Dezhi, TIAN Guozhong, ZHANG Wenxin, et al(280)
- Disease occurrence and establishment of prediction model of faba bean chocolate spot in Chongqing from 2018 to 2019
..... LONG Juechen, DU Chengzhang, WANG Ping, et al(291)
- Spatial distribution pattern and sampling technique of overwintering eggs of *Apolysus lucorum* in apple orchard
..... SU Heng, LI Guoping, SUN Xiaoxu, et al(298)
- Droplets deposition of herbicide in low volume spraying by UAV in weeds and control effect in maize field
..... FAN Minghong, LAN Yubin, ZHAO Denan, et al(304)
- Fall armyworm damaging rice seedlings in Anhui province XU Lina, CHEN Yongtian, XU Tingting, et al(310)
- Physiological race identification and virulence analysis of *Puccinia striiformis* f. sp. *tritici* in Yili prefecture, Xinjiang
..... LIU Qi, CHEN Li, ZENG Minghao, et al(314)
- Investigation of bergamot yam nematode disease in Wuxue city and identification of pathogens
..... YANG Xiaolin, LI Menghuan, HE Zhonghua, et al(320)
- Monitoring the variation of physiological races of *Puccinia striiformis* f. sp. *tritici* in Gansu province during 2019–2020
..... JIA Qiuzhen, CAO Shiqin, WANG Xiaoming, et al(327)
- Effect of the frequency and times of equal application of bensulfuron-methyl • pretilachlor 30% EC on weeding efficacy in paddy field
..... SHI Jun, CHEN Ruoxia, CHAI Weigang, et al(333)
- Comparison of weed management with several pre-emergence herbicides under two application periods and analysis their interactions in weed control YANG Yongjie, ZHANG Huiquan, JIN Wenyong, et al(341)
- Laboratory control effects of different seed treatments against *Spodoptera frugiperda* of wheat seedling
..... XU Lina, XU Tingting, TONG Qiang, et al(348)
- Efficacy of thirteen fungicides for controlling rice brown spot disease
..... FENG Aiqing, ZHU Xiaoyuan, WANG Congying, et al(352)