

# 农药学学报

CHINESE JOURNAL OF PESTICIDE SCIENCE



ISSN 1008-7303



9 771008 730213

第23卷 第2期

Vol. 23, No. 2 2021

中国农业大学 主办

《农药学学报》编辑委员会

# 农 药 学 学 报

NONGYAOXUE XUEBAO

第 23 卷 第 2 期 2021 年 4 月

## 目 次

### 专论与综述

- 草地贪夜蛾性信息素的化学合成与应用研究进展.....  
..... 孙 效, 吴燕华, 王 敏, 边庆花, 钟江春\*(199)
- 海藻糖合成酶结构及其抑制剂的研究进展.....  
..... 蒋志洋, 韩 清, 王金娥, 朱 凯, 张婧瑜, 邓鸣飞, 黄家兴, 段红霞\*(209)
- 食品中植物生长调节剂残留限量标准比较与分析..... 宋 雯, 王 强\*(226)
- 基于农药残留的药用作物分类现状..... 李艳杰, 张昌朋, 廖先骏, 赵学平\*, 李富根\*(237)
- 喷雾助剂对茎叶处理除草剂的增效机制及应用研究进展.....  
..... 李子璐, 张晨辉, 郭勇飞, 卢忠利, 高玉霞\*, 杜凤沛\*(245)
- 铜基纳米颗粒在农药领域的潜在应用..... 董欣欣, 姬彦飞, 田 野, 张 杰\*, 刘成伟\*(259)

### 研究论文

- 新型三唑嘧啶类衍生物的合成及生物活性.....  
..... 邓坤钊, 李旭军, 朱 祥, 杜晓英, 李俊凯, 徐志红\*(269)
- 含酰肼结构阿维菌素衍生物的合成及生物活性..... 王泽春, 魏阿兰, 李 娇\*, 徐风波\*(279)
- 含 1,3,4-噁(噁)二唑吩嗪-1-甲酰胺类衍生物的合成与杀菌活性(英文).....  
..... 何 敏#, 古景文#, 李司丞#, 向绪稳, 姜 珊, 崔紫宁\*(287)
- 抗噁虫嗪重组全长抗体的制备与特异性识别机制研究.....  
..... 刘鹏琰, 郭源昊, 焦沙沙, 陈 阳, 郭逸蓉\*, 朱国念(296)
- 杠柳新苷类化合物对东方黏虫的杀虫活性及对中肠细胞刷状缘膜囊泡 3 种特征酶活性的影响.....  
..... 冯明星, 胡兆农\*, 吴文君(308)
- 芦荟苦素和芦荟凝胶对新月弯孢的抑菌活性(英文)..... 张国辉, 李荣玉\*, 吴小毛, 李 明\*(316)
- 小白菜次生代谢物质对小菜蛾雌虫行为的调节作用.....  
..... 万方数据..... 王占娣, 张 啦, 丁百莲, 史云东, 王雅妮, 鲁广秋, 贾 琳\*(323)

甲基硫菌灵和百菌清浸苗防治甘薯黑斑病的影响因素分析 .....	张德胜, 白瑞英, 乔奇, 田雨婷, 王永江, 王爽, 张振臣*(331)
百日草炭疽病病原菌的分离鉴定及防治药剂筛选 .....	李文, 何月秋, 王佳莹, 王国良, 王志龙*(341)
己唑醇及其对映体对人体乳腺癌细胞的选择毒性及氧化损伤研究 .....	兰阳, 孙大利, 庞俊晓, 孙晓红*(348)
2-溴-4-氟乙酰苯胺在雄性大鼠体内的毒物动力学行为 .....	朱狄峰, 童振轩, 洪雅雯, 陈超, 赵剑岚, 平丽*(357)
联苯菊酯、噻虫嗪及其代谢物噻虫胺在小麦上的残留及膳食风险评估 .....	吕莹, 齐艳丽, 任鹏程, 连少博, 王霞, 秦曙*(366)
韭菜中腐霉利的残留检测及长期膳食暴露评估 .....	周勇, 朴秀英, 廖先骏, 刘佳, 朱航, 马海昊, 周小毛*, 李富根*(373)
不同采收期及贮藏条件下冬枣中 54 种农药的筛查、残留消解动态与膳食风险评估 .....	毛江胜, 陈子雷, 郭长英*, 李慧冬, 丁蕊艳, 张文君, 颜朦朦(380)
QuEChERS-高效液相色谱-串联质谱法检测氟吡菌胺及其代谢物和霜霉威在叶用莴苣中的残留及 消解动态 .....	唐红霞, 黄佳庆, 孙强, 温广月, 董茂锋*, 王伟民*(388)
磁性分散固相萃取-QuEChERS 结合气相色谱-串联质谱法检测不同柑橘基质中多种农药残留 .....	杨秦, 张耀海, 周杰, 焦必宁*(395)
固相萃取-气相色谱-串联质谱法测定大豆油中 126 种农药残留 .....	汪春明*, 张洋, 王东斌, 施鹏斐, 杨波(405)
QuEChERS-超高效液相色谱-串联质谱法检测花生中 4 种农药残留 .....	杨松, 邹楠, 尤峥, 于杰, 王苓, 宿莉, 慕卫*(414)

## 相关信息及其他

欢迎订阅《农药学报》(208); 书讯《农药问答》(236); 湖北省农业科学院中药材研究所游景茂副研究员科研创新团队(封二); 《农药学报》入编 2020 年版《中文核心期刊要目总览》(封三); 新朝阳·绿色农业核心技术(封底)

注: \*为并列第一作者; \*为通信作者。

期刊基本参数:

CN 11-3955/S \* 1999 \* b \* A4 \* 222 \* zh+en \* P \* ¥ 30.00 \* 24 \* 2021-4 \* n

# CHINESE JOURNAL OF PESTICIDE SCIENCE

(*Chin. J. Pestic. Sci.*)

Vol. 23 No. 2 April 2021

---

## CONTENTS

### MONOGRAPHS AND REVIEWS

- Research progress on chemical synthesis and application of the sex pheromone of *Spodoptera frugiperda* .....  
..... *SUN Xiao, WU Yanhua, WANG Min, BIAN Qinghua, ZHONG Jiangchun\** (199)
- Advances in structures and inhibitors of trehalose synthetase.....  
..... *JIANG Zhiyang, HAN Qing, WANG Jin'e, ZHU Kai, ZHANG Jingyu, DENG Mingfei,*  
*HUANG Jiaying, DUANG Hongxia\** (209)
- Comparison and analysis on the maximum residue limits for plant growth regulators in foodstuffs.....  
..... *SONG Wen, WANG Qiang\** (226)
- Current situation on classification of medicinal crops based on pesticide residues.....  
..... *LI Yanjie, ZHANG Changpeng, LIAO Xianjun, ZHAO Xueping\*, LI Fugen\** (237)
- Research progress on the synergistic regularity and application of spray adjuvants on the foliage-applied herbicides.....  
..... *LI Zilu, ZHANG Chenhui, GUO Yongfei, LU Zhongli, GAO Yuxia\*, DU Fengpei\** (245)
- Potential applications of copper-based nanoparticles in pesticide.....  
..... *DONG Xinxin, JI Yanfei, TIAN Ye, ZHANG Jie\*, LIU Chengwei\** (259)

### RESEARCH REPORTS

- Synthesis and biological activities of novel triazole piperazine derivatives.....  
..... *DENG Shenchuan, LI Xujun, ZHU Xiang, DU Xiaoying, LI Junkai, XU Zhihong\** (269)
- Synthesis and biological activity of avermectin derivatives containing hydrazide structure.....  
..... *WANG Zechun, WEI Alan, LI Jiao\*, XU Fengbo\** (279)
- Design, synthesis and fungicidal activities of phenazine-1-carboxamida conjugates of 1,3,4-thia(oxa)diazole (*in English*).....  
..... *HE Min<sup>#</sup>, GU Jingwen<sup>#</sup>, LI Sicheng<sup>#</sup>, XIANG Xuwen, JIANG Shan, CUI Zining\** (287)
- Development of anti-thiamethoxam full-length recombinant antibody and investigation of the specific recognition mechanism .....  
..... *LIU Pengyan, GUO Yuanhao, JIAO Shasha, CHEN Yang, GUO Yirong\*, ZHU Guonian* (296)
- Insecticidal activity of periplocosides against oriental armyworm (*Mythimna separata*) and its effects on three characteristic  
enzyme activities in the midgut cell BBM V ..... *FENG Mingxing, HU Zhaonong\*, WU Wenjun* (308)
- Inhibitory activity of aloesin and aloe gel against *Curvularia lunata* (*in English*).....  
..... *ZHANG Guohui, LI Rongyu\*, WU Xiaomao, LI Ming\** (316)

Regulation of pakchoi's secondary metabolites on the behavior of female <i>Plutella xylostella</i> (Lepidoptera: Plutellidae).....	
.....	WANG Zhandi, ZHANG La, DING Bailian, SHI Yundong, WANG Yani, LU Guangqiu, JIA Lin* (323)
Influencing factors of dipping seedling dip with thiophanate-methyl and chlorothalonil against the black rot of sweet potato.....	
.....	ZHANG Desheng, BAI Ruiying, QIAO Qi, TIAN Yuting, WANG Yongjiang, WANG Shuang, ZHANG Zhenchen* (331)
Isolation and identification of pathogen causing anthracnose on <i>Zinnia elegans</i> Jacq. and fungicides screening .....	
.....	LI Wen, HE Yueqiu, WANG Jiaying, WANG Guoliang, WANG Zhilong* (341)
Study on the enantioselectivity cytotoxicity and oxidative damage of hexaconazole on MCF-7 cells.....	
.....	LAN Yang, SUN Dali, PANG Junxiao, SUN Xiaohong* (348)
Toxicokinetics of 2-bromo-4-fluoroacetanilide in male SD rat.....	
.....	ZHU Difeng, TONG Zhenxuan, HONG Yanwen, CHEN Chao, ZHAO Jianlan, PING Li* (357)
Residue behavior and dietary risk assessment of bifenthrin, thiamethoxam and clothianidin in wheat.....	
.....	LYU Ying, QI Yanli, REN Pengcheng, LIAN Shaobo, WANG Xia, QIN Shu* (366)
Determination and chronic dietary exposure assessment of procymidone residue in Chinese chives.....	
.....	ZHOU Yong, PIAO Xiuying, LIAO Xianjun, LIU Jia, ZHU Hang, MA Haihao, ZHOU Xiaomao*, LI Fugen* (373)
Screening, residue dissipation and risk assessment of 54 pesticides in winter jujube under different harvesting and storage conditions .....	
.....	MAO Jiangsheng, CHEN Zilei, GUO Changying*, LI Huidong, DING Ruiyan, ZHANG Wenjun, YAN Mengmeng (380)
Residue and dissipation of fluopicolide, its metabolite and propamocarb in the leaf lettuce using a modified QuEChERS method and HPLC-MS/MS .....	
.....	TANG Hongxia, HUANG Jiaqing, SUN Qiang, WEN Guangyue, DONG Maofeng*, WANG Weimin* (388)
Analysis of multiple pesticide residues in different citrus matrices by magnetic dispersive solid phase extraction-QuEChERS combined with gas chromatography-tandem mass spectrometry.....	
.....	YANG Qin, ZHANG Yaohai, ZHOU Jie, JIAO Bining* (395)
Determination of 126 pesticides residues in soybean oil by solid phase extraction-gas chromatography-tandem mass spectrometry .....	
.....	WANG Chunming*, ZHANG Yang, WANG Dongbin, SHI Pengfei, YANG Bo (405)
Detection of 4 pesticides residues in peanut using QuEChERS-ultra high performance liquid chromatography-tandem mass spectrometry .....	
.....	YANG Song, ZOU Nan, YOU Zheng, YU Jie, WANG Ling, SU Li, MU Wei* (414)

Note: #Equal contribution. \*Author for correspondence.