

# 农 药 学 学 报

## Nongyaoxue Xuebao

### 第 20 卷 ( 2018 年 ) 总目次

#### 专论与综述

- 海峡两岸水产品兽药残留限量标准与国际标准比较及完善对策·····郑思宁, 娄 静, 郑逸芳<sup>\*</sup>(1)1
- 灰飞虱对杀虫剂的抗性分子机制研究进展·····  
 ···徐 鹿<sup>\*\*</sup>, 赵 钧<sup>\*\*</sup>, 赵春青, 徐德进, 徐广春, 许小龙, 张亚楠, 张月亮, 韩召军, 顾中言<sup>\*</sup>(2)135
- 五氟磺草胺在稻田环境中吸附和消解研究进展·····贺文艳, 毛 萌<sup>\*</sup>(2)146
- 香根草挥发性成分提取分离及其农用生物活性研究进展·····  
 ·····李中珊, 程敬丽, 李安邦, 赵金浩<sup>\*</sup>, 杜永均, 朱国念(3)259
- 环境响应性载体材料在农药控释中的应用研究进展·····  
 ·····郭明程, 陈立萍, 张 佳, 王晓军, 袁善奎, 杨 峻<sup>\*</sup>(3)270
- 新型杀菌化合物靶标识别及其靶向候选药剂设计概述·····赵 斌<sup>\*\*</sup>, 陈 来<sup>\*\*</sup>, 张乃楼, 范志金<sup>\*</sup>(4)397
- 细菌群体感应抑制剂研究进展·····郭冰怡, 董燕红<sup>\*</sup>(4)408
- 昆虫性信息素及其类似物干扰昆虫行为的机理和应用研究进展·····  
 ·····王安佳, 张开心, 梅向东<sup>\*</sup>, 高玉林, 张 涛, 折冬梅, 宁 君(4)425
- 复合物 II 抑制剂的作用机制和研究进展·····杜士杰, 覃兆海<sup>\*</sup>(5)545
- 多杀菌素类杀虫剂的环境降解及抗性机制研究进展·····史雪岩(5)557
- 有机磷农药残留分子印迹聚合物研究现状与展望·····吴 茂, 范亚军, 郭亚平, 谢练武<sup>\*</sup>(6)689
- 杀虫剂防治水稻褐飞虱的有效利用率分析·····顾中言<sup>\*</sup>, 徐广春, 徐德进(6)704

#### 研究论文

- 人血清白蛋白与氯氰菊酯相互作用的分子模拟研究·····邓培渊, 王 辉, 袁洪哲, 王广军, 李长看<sup>\*</sup>(1)11
- 双环磺草酮除草活性及对水稻的安全性研究·····  
 ·····毕亚玲<sup>\*</sup>, 王曹阳, 谷 刚, 李 部, 任永娟, 李学维, 李淑娟(1)18
- 不同杀菌剂对黄瓜靶斑病菌的毒力作用特性比较·····禾丽菲, 李晓旭, 朱佳美, 慕 卫, 刘 峰<sup>\*</sup>(1)25
- 北京地区草坪草夏季斑枯病菌对啞菌酯的敏感性及其 *Cytb* 序列分析·····  
 ·····胡 健, 杨静雅, 李 婕, 杨高文, 任海彦<sup>\*</sup>(1)33
- 稻曲病菌离体培养体系的构建与优化·····  
 ·····刘晓玉, 潘九月, MATSUMOTO Haruna, 范小艳, 林 婷, 钱 圆, 朱国念, 王蒙岑<sup>\*</sup>(1)41
- 4 种苦参碱制品对非靶标生物的毒性评价·····豆敏详, 史晓玲, 马志卿<sup>\*</sup>, 张 兴, 吴志凤(1)49
- QuEChERS-超高效液相色谱-串联质谱法测定香菇中 56 种农药残留·····  
 ·····吴延灿, 戚传勇, 操海群<sup>\*</sup>, 苏漪玲, 商鲁宁, 檀根甲, 蒋冰心(1)58

- 38% 唑醚·啶酰菌悬浮剂在草莓和土壤中的残留及消解动态·····  
 ······ 杨霄鸿, 赵楠楠, 赵文文, 刘慧君\*, 金 芬\*, 贾明宏 (1)67
- QuEChERS-高效液相色谱-串联质谱法测定丙炔氟草胺在食品和环境中的残留及土壤中的消解动态·····  
 ······ 程 功, 刘 娜, 田宏哲, 朱 赫, 纪明山\*(1)75
- QuEChERS-超高效液相色谱-串联质谱法测定玉米植株和土壤中溴氰虫酰胺及其代谢物残留·····  
 ······ 丁金凤, 徐春梅, 张 薇, 邹 楠, 慕 卫\*(1)83
- 江苏省鲃鱼养殖体系中 18 种多氯联苯和 4 种重金属的污染现状与风险评估·····  
 ······ 赵 玲\*\*, 陈维政\*\*, 周蓓蕾, 沈 燕, 刘贤金, 张存政\*(1)90
- 中国主要蜜源作物上登记的农药品种及其中杀虫剂对蜜蜂的初级风险评估  
 ······ 廖建华, 程 燕\*, 卜元卿, 谭丽超, 周军英, 单正军 (1)100
- 鱼藤酮在 3 种土壤中的吸附-解吸附特性·····  
 ······ 徐志英, 任 莉, 陈小军\*, 孟志远, 宋玥颐, 任亚军, 徐顺飞, 张迎娣 (1)110
- 寡肽手性膦酸酯硫脲的合成及其抗烟草花叶病毒活性····· 廖 鹏, 胡仕琴, 张 宏, 刘静姿\*(2)153
- 嗜线虫致病杆菌 SN313 的次生代谢产物及其抑制植物病原真菌活性研究·····  
 ······ 李凤麟, 刘焕赠, 席雪冬, 于志国\*(2)163
- 新型除草剂高粱素生物合成关键酶 ARS 的双控表达质粒构建及表达条件优化·····  
 ······ 包莹玲, 王 磊, 赵迪, 郑泽华, 景狄波, 嘉晓勤, 陆跃乐, 李 忠, 陈小龙\*(2)169
- 看麦娘对甲基二磺隆靶标抗性的快速检测····· 郭文磊, 白 霜, 池艳艳, 冯 莉, 王金信\*(2)178
- 粘质沙雷氏菌 S-JS1 与 5 种杀虫剂对灰飞虱的联合作用及该菌对灰飞虱相关酶活性的影响·····  
 ······ 牛洪涛, 肖李俊杰, 王 娜, 刘宝生, 于天丛, 郭慧芳\*(2)185
- 白术黑斑病菌对甲基硫菌灵和腐霉利的抗性检测及对咪鲜胺敏感性基线的建立·····  
 ······ 戴德江, 刘亚慧, 沈 瑶, 张传清\*(2)192
- 雷公藤中雷公藤甲素、雷公藤吉碱和次碱的高效液相色谱-电喷雾串联质谱分析方法·····  
 ······ 张 璟, 陈蒙蒙, 蒲 时, 祝传书, 张 兴\*(2)197
- QuEChERS-超高效液相色谱-串联质谱分析氰霜唑及代谢物 CCIM 在黄瓜和土壤中的残留·····  
 ······ 张翠芳\*\*, 陈兆杰\*\*, 宋世明, 程夕冉, 雷雨豪, 谭辉华, 李雪生\*(2)204
- 噻虫嗪及其代谢物噻虫胺在节瓜中的消解动态及初步膳食风险评估·····  
 ······ 刘艳萍\*\*, 王思威\*\*, 孙海滨\*, 王潇楠 (2)211
- 气相色谱-串联质谱法测定西瓜和黄瓜中吡唑萘菌胺及其代谢物残留·····  
 ······ 智沈伟, 赵尔成\*, 李兴海, 贾春虹 (2)217
- 氯虫苯甲酰胺和吡唑醚菌酯在铁皮石斛中的残留及消解动态·····  
 ······ 许振岚, 陈丽萍, 徐明飞, 蒋一之, 虞轶俊, 王 强, 赵学平\*(2)223
- 马拉硫磷在西葫芦中的残留行为及膳食摄入风险评估·····  
 ······ 刘一平, 罗香文, 陈武荣, 郑尊涛, 朱光艳, 简 秋, 秦冬梅, 廖晓兰\*, 李晓刚\*(2)232
- 四种喷雾助剂对啞菌酯在玉米叶片上耐雨水冲刷能力及其对玉米安全性的影响·····  
 ······ 张 萍, 姜兴印\*, 谭海丽, 尚佃龙, 李向东, 张吉旺 (2)239
- 基于丁香酚的异噁唑啉类化合物的设计合成及抑菌活性····· 宋泽华, 肖泰峰, 李圣坤\*(3)279

- 2-噻唑酰氨基环己烷基磺酰胺的合成与杀菌活性 ..... 杨永贵, 孟司奇, 祁之秋, 纪明山, 李兴海\* (3)287
- S-茛虫威的晶型研究及杀虫活性比较 ..... 程敬丽, 肖豆鑫, 郑敏, 赵金浩\* (3)294
- 丙环唑和醚菌酯药液浓度、雾滴密度与其对小麦白粉病防效的关系 ..... 孔肖, 闫晓静, 杨代斌, 袁会珠\* (3)301
- 丙炔氟草胺与二甲戊灵复配的联合除草作用及对棉花的安全性 ..... 王恒智, 谭金妮, 吕学深, 赵孔平, 刘伟堂, 王金信\* (3)309
- 大蓟地上组织化学成分及其抗真菌活性 ..... 姜力荣, 姬志勤\* (3)316
- 氯吡脞连续灌胃给药 4 周对大鼠的毒性作用 ..... 平丽, 钱仁云, 洪雅雯, 陈超, 朱狄峰\* (3)323
- 海洋生境贝莱斯芽孢杆菌 TCS001 的鉴定及抑真菌活性 ..... 杨可, 郑柯斌, 黄晓慧, 袁静, 陈杰\* (3)333
- 腐霉利的光解及水解特性研究 ..... 侯丽娜, 孟鸽, 温勇, 施海燕, 华修德\*, 王鸣华 (3)340
- 氯氰菊酯在茼蒿和油麦菜上的残留行为研究 ..... 李晋栋, 王霞, 高婧, 齐艳丽, 连少博, 任鹏程, 孙瑞卿, 王婧, 乔雄梧, 秦曙\* (3)348
- 超高效液相色谱-串联质谱法同时检测大米中 15 种常用农药的残留 ..... 黄兰洪, 陈秀, 张正炜, 马琳, 占绣萍, 陈建波, 赵莉\* (3)354
- 同位素内标法检测灭蝇胺及其代谢物三聚氰胺在双孢蘑菇子实体和覆土中的残留 ..... 宋卫国, 饶钦雄, 陈珊珊, 卢阳阳, 张其才\* (3)363
- 超高效液相色谱-串联质谱法测定浙贝母中 6 种农药残留 ..... 俞建忠, 苍涛, 戴芬, 赵学平\* (3)370
- 超高效液相色谱-串联质谱法分析氟虫双酰胺和噻嗪酮在茭白中的残留及消解动态 ..... 徐峰, 于佳勇, 吴银良\*, 叶子弘\* (3)377
- 15% 阿维菌素·吡唑醚菌酯·三唑酮热雾剂配方研制·单启恒, 曾耿狄, 王萌, 张宇, 梁晓宇\* (3)384
- 不同温度下白背飞虱对环氧虫啉的敏感性 ..... 任志杰, 毛凯凯, 李朋岳, 刘超亚, 王越, 李建洪, 万虎, 何顺\* (4)439
- 禾谷镰孢菌对氟唑菌酰胺敏感性基线的建立及药剂田间防效 ..... 向礼波, 杨立军, 薛敏峰, 张学江, 曾凡松, 史文琦, 宋远胜, 龚双军\*, 喻大昭 (4)445
- 上海地区草莓灰霉病菌对啶酰菌胺的敏感性检测及抗性机制分析 ..... 刘欣, 吴雁, 成玮, 曾蓉, 徐丽慧, 高士刚, 戴富明\* (4)452
- QuEChERS-超高效液相色谱-QDa 质谱法快速测定白菜与油菜中 15 种氨基甲酸酯类农药及代谢物残留 ..... 王纯强, 钱永忠, 章程辉\*, 邱静\* (4)459
- QuEChERS-超高效液相色谱-串联质谱法测定双氟磺草胺和氯氟吡氧乙酸在小麦和土壤中的残留及消解动态 ..... 金涛, 段劲生\*, 高同春\* (4)468
- 稻谷加工过程中 4 种常用杀虫剂残留的消解规律 ..... 湛立伟, 沈峰平, 沈立, 蒋晓锦, 牟仁祥, 马有宁\* (4)477
- 丙炔氟草胺在大豆和土壤中的残留及消解动态 ..... 张双, 刘娜, 程功, 杨庆喜, 纪明山\* (4)487
- 三甲硅重氮甲烷衍生化-气相色谱法测定水果蔬菜中乙烯利的残留 ..... 陈克云, 王艳丽, 沈祥震, 鞠香, 胡梅, 刘艳明\*, 祝建华\* (4)495
- 不同培养条件下甲霜灵在蓖麻幼苗韧皮部的输导性 ..... 余林花, 余迪雅, 张敏, 李旭军, 朱祥, 徐志红, 吴清来\*, 李俊凯\* (4)500

- 吡唑醚菌酯/二氧化硅微球的释放行为与生物活性评价 .....  
 ..... 王 娅, 王昱翔, 张 盈, 张 星, 陈 伟, 李晓刚\* (4)506
- 1% 甲氨基阿维菌素苯甲酸盐微囊悬浮剂制备工艺研究 ..... 杨 斌, 朱瞬瞬, 张登科\*, 朱国念 (4)514
- 松脂二烯在植物叶片表面的成膜性能 ..... 朱 昶, 韩群琦, 陈安良\* (4)523
- 园林树木种类及树冠大小对自流式注干药剂吸收及传导的影响 .....  
 ..... 张 娟, 李 军, 黄 俊\*, 唐娅媛, 史小华 (4)529
- N*-(2-三氟甲基-4-氯苯基)-2-吡唑醚氨基环己烷基磺酰胺类化合物的合成与杀菌活性 .....  
 ..... 孟司奇, 杨永贵, 纪明山, 祁之秋, 李兴海\* (5)568
- 氯虫苯甲酰胺对 2 种跳虫的繁殖毒性与氧化胁迫 .....  
 ..... 吴若函, 严海娟\*, 丁 悦, 董 雪, 葛常艳, 余向阳 (5)577
- 草甘膦铵盐对 3 种滩涂动物抗氧化酶、丙二醛及大弹涂鱼红细胞微核的影响 .....  
 ..... 袁建军, 谢嘉华, 张 猛, 陈细香, 余向阳\* (5)587
- 玉米田反枝苋对烟嘧磺隆的抗性水平及靶标抗性分子机理 .....  
 ..... 葛鲁安\*\*, 王 豪\*\*, 赵 宁, 张乐乐, 刘伟堂\*, 王金信\* (5)595
- 山东省不同地区蔬菜菌核病菌对四霉素的敏感性 ..... 黄学屏, 宋昱菲, 肖 斌, 慕 卫, 刘 峰\* (5)601
- $\gamma$ -氨基丁酸对盐胁迫下玉米幼苗根系氧化损伤及内源激素的调控 .....  
 ..... 王泳超, 郑博元, 顾万荣, 李 卓, 毛 俊, 郭家萌, 邵瑞鑫, 杨青华\* (5)607
- 外源赤霉素对厚皮甜瓜坐果节位叶片早衰与内源激素含量的影响 .....  
 ..... 李 田, 刘海河\*, 张彦萍, 陈倩云, 左彬彬 (5)618
- 苯胺胺酸对辣椒内源激素及果实品质和产量的影响 ..... 吴 琼, 张 荣, 李子豪, 马志卿\*, 张 兴 (5)625
- 生防放线菌 CY-14 的鉴定及其发酵液对香蕉炭疽病的防治效果 .....  
 ..... 张月凤, 辜柳霜, 柳志强, 李晓宇\* (5)634
- 溴氰菊酯降解菌的分离筛选与应用潜力评价 .....  
 ..... 黄文源, 侯少锋, 龙友华, 李 明, 吴小虎, 徐 军, 刘新刚, 董丰收, 吴小毛\*, 郑永权\* (5)643
- 蜡状芽孢杆菌对烟嘧磺隆的降解及降解产物 2-氨基-4,6-二甲氧基嘧啶的环境生物毒性 .....  
 ..... 党晶晶, 杨冬臣, 张 哲, 王振梅, 张金林\* (5)652
- 超高效液相色谱-串联质谱法测定 9 种绿叶类蔬菜中 36 种农药多残留的基质效应 .....  
 ..... 邱世婷\*, 蒲凤琳, 侯 雪, 韩 梅, 郭灵安 (5)661
- 新型两亲性多糖基戊唑醇纳米胶囊的制备及缓释性能研究 .....  
 ..... 卢闻君, 曾楚楚, 郭 明\*, 林海萍, 关 莹 (5)668
- 含单氟甲氧基的双酰胺类化合物的合成及杀虫活性 .....  
 ..... 张冬林, 杨 森, 杨 忍, 裴 丹, 张 帆, 刘 杰, 李建业, 谭成侠\* (6)715
- 新化合物吡唑并嘧啶衍生物 (BDO-1) 和哒嗪酮衍生物 (PDZ-1) 的诱导抗病性研究 .....  
 ..... 石廷霞, 张晓慧, 谢学文, 柴阿丽, 徐玉芳, 赵振江, 李宝聚\* (6)721
- 浙江省果蔬灰葡萄孢对啶酰菌胺的抗性 ..... 林泽松, 赵帅锋, 皇甫运红, 吴鉴艳, 王华弟, 张传清\* (6)729
- 山东省玉米纹枯病菌对噻呋酰胺的敏感性及其抗性突变体的生物学性状 .....  
 ..... 尚佃龙, 姜兴印\*, 刘 玉, 孙秀英, 李向东, 张吉旺 (6)735

烟叶米根霉检测、碳源代谢表型及其对 7 种杀菌剂的敏感性	汪汉成*, 张敏, 张长青*, 陈兴江, 谭清群, 马骏*, 李忠	(6)743
基于转录组测序技术分析吡虫啉或氟啶虫胺胍对麦二叉蚜细胞色素 P450 基因表达的影响	张百重**, 马康生**, 刘俊杰, 卢留洋, 谢兰芬, 孔凡彬, 陈锡岭*, 高希武*	(6)749
苯醚甲环唑和啞菌酯对家蚕的生长发育毒性	莫秀芳, 李星翰, 王晓岚, 尹晓辉*	(6)758
农药对健康及环境影响药迹模型的构建与应用	张志恒*, 胡秀卿, 汪雯, 潘灿平, 刘琳	(6)765
QuEChERS-高效液相色谱-串联质谱法测定榛子中 4 种农药的残留	杨庆喜, 刘娜, 张双, 郝晏可, 邹益泽, 谷祖敏*	(6)776
环戊噁草酮在稻田中的残留及消解动态	汤涛, 高云昊, 苗万鹏, 许振岚, 张昌朋, 赵学平*	(6)783
噻唑磷在甘蔗和土壤中的残留消解动态及风险评估	王思威**, 刘艳萍**, 王潇楠, 孙海滨*	(6)790
三种拟除虫菊酯类农药在砂土和壤土中的淋溶行为	许佳彬, 郑钊, 王璐芳, 吕晓芬, 王萌, 张宇*	(6)797
助剂对 10% 苯醚甲环唑水分散粒剂在荔枝叶片表面润湿性能的影响	王潇楠**, 刘艳萍**, 王思威, 孙海滨*	(6)803

## 研究简报

抗螺虫乙酯对大型蚤的急性和慢性毒性效应	陈颖, 陶芳怡, 刘训悦, 王蒙岑, 饶琼, 顾丹璐, 吴慧明*	(1)118
QuEChERS-液相色谱-串联质谱法检测糙米中氟唑环菌胺的残留	姜桦韬, 尤祥伟, 张广雨, 隋程程, 王秀国, 李义强*	(1)124
QuEChERS-高效液相色谱-串联质谱法测定主要谷物和油料作物中氯虫苯甲酰胺的残留	马婧玮, 马欢, 安莉, 吴家锴, 汪红, 祁玉峰, 陈寅, 吴绪金*	(1)129
2009—2014 年间广东省菜心炭疽病菌对咪鲜胺的敏感性	蓝国兵**, 于琳**, 何自福*, 余小漫, 汤亚飞, 邓铭光	(2)249
烟噻磺隆降解菌枯草芽孢杆菌 YB1 颗粒剂的加工及应用	张哲, 杨树森, 杨冬臣, 张金林*	(2)254
坡柳种子中坡柳皂苷 A 的分离鉴定及其对小菜蛾的拒食活性	张扬**, 付立新**, 范黎明, 秦小萍*, 叶敏*	(3)390
新奥霉素母药对 5 种非靶标生物的急性毒性	沈艳, 孙如意, 李蕾, 李沛明, 周凤艳, 高同春, 王梅, 张勇*	(4)535
二氧蒽醌和吡唑醚菌酯在苹果中的残留及消解动态	兰丰, 周先学, 李晓亮, 王志新, 段小娜, 鹿泽启, 姜蔚, 刘传德*	(4)540
山萘中脂肪链酰胺类化合物的分离及杀虫活性	董存柱, 郭锦全, 周学明, 徐汉虹*	(5)679
基于 QuEChERS-超高效液相色谱-串联质谱法检测依维菌素在杨梅上的残留	王全胜, 付岩, 张亮, 凌淑萍, 朱勇, 赵健, 吴银良*	(5)684
氟唑磺隆在野燕麦中的内吸传导特性	范添乐, 魏芬杰, 陈小军*, 宋玥颐, 任莉, 管凌君	(6)809
噻虫胺在梨中的残留及消解动态	兰丰, 柳璇, 李晓亮, 周先学, 刘传德, 王志新*, 鹿泽启, 姜蔚	(6)814

# CHINESE JOURNAL OF PESTICIDE SCIENCE

## 2018 ANNUAL INDEX

### ( Vol. 20, No. 1-6 )

#### MONOGRAPHS AND REVIEWS

- Comparison and analysis of the standards on veterinary drug residues in aquatic products among Mainland China, Taiwan China and international standards and the improving countermeasures ..... ZHENG Sining, LOU Jing, ZHENG Yifang\* (1)1
- Research progress in molecular mechanisms of resistance to insecticides in *Laodelphax striatellus* ..... XU Lu\*\*, ZHAO Jun\*\*, ZHAO Chunqing, XU Dejin, XU Guangchun, XU Xiaolong, ZHANG Ya'nan, ZHANG Yueliang, HAN Zhaojun, GU Zhongyan\* (2)135
- Research progresses on adsorption and dissipation of penoxsulam in rice paddy field ..... HE Wenyuan, MAO Meng\* (2)146
- Research progress on extraction, separation and agro-bioactivities of volatile substances in *Vetiveria zizanioides* (L.) Nash ..... LI Zhongshan, CHENG Jingli, LI Anbang, ZHAO Jinhao\*, DU Yongjun, ZHU Guonian (3)259
- Recent progress on stimuli-responsive materials as pesticides controlled release carriers ..... GUO Mingcheng, CHEN Liping, ZHANG Jia, WANG Xiaojun, YUAN Shankui, YANG Jun\* (3)270
- General summary of novel fungicide target identification and its targeted candidate design ..... ZHAO Bin\*\*, CHEN Lai\*\*, ZHANG Nailou, FAN Zhijin\* (4)397
- Research progress on inhibitors toward quorum sensing system ..... GUO Bingyi, DONG Yanhong\* (4)408
- Research progress on mechanisms and applications of insect mating behavior disruption by insect sex pheromones and analogues ..... WANG Anjia, ZHANG Kaixin, MEI Xiangdong\*, GAO Yulin, ZHANG Tao, SHE Dongmei, NING Jun (4)425
- Research progress on the interaction mechanism of complex II inhibitors ..... DU Shijie, QIN Zhaohai\* (5)545
- Research progresses on environmental degradation and resistance mechanism of spinosyn insecticides ..... SHI Xueyan (5)557
- Research, advancement and prospect of molecularly imprinted polymers for organophosphorus pesticide residues ..... WU Mao, FAN Yajun, GUO Yaping, XIE Lianwu\* (6)689
- Analysis of pesticide efficiency of insecticides against brown planthopper, *Nilaparvata lugens* Stål ..... GU Zhongyan\*, XU Guangchun, XU Dejin (6)704

#### RESEARCH REPORTS

- Molecular modeling studies of interactions between human serum albumin and cypermethrin ..... DENG Peiyuan, WANG Hui, YUAN Hongzhe, WANG Guangjun, LI Changkan\* (1)11
- Herbicidal activity evaluation of benzobicyclon and its safety to rice ..... BI Yaling\*, WANG Caoyang, GU Gang, LI Bu, REN Yongjuan, LI Xuewei, LI Shujuan (1)18
- Comparison of toxicity properties of different types of fungicides against *Corynespora cassiicola* on cucumber ..... HE Lifei, LI Xiaoxu, ZHU Jiamei, MU Wei, LIU Feng\* (1)25
- Azoxystrobin sensitivity in *Magnaporthe poae* populations collected from turfgrass in Beijing and analysis of its cytochrome *b* (*Cytb*) gene sequence ..... HU Jian, YANG Jingya, LI Jie, YANG Gaowen, REN Haiyan\* (1)33
- Construction and optimization of a culture system for growth and bioassay of *Ustilagoidea vires* in vitro ..... LIU Xiaoyu, PAN Jiuyue, MATSUMOTO Haruna, FAN Xiaoyan, LIN Ting, QIAN Yuan, ZHU Guonian, WANG Mengcen\* (1)41
- Toxicity evaluation of 4 matrine-based products on non-target organisms ..... DOU Minxiang, SHI Xiaoling, MA Zhiqing\*, ZHANG Xing, WU Zhifeng (1)49
- Determination of 56 pesticides in *Lentinus edodes* using QuEChERS-ultra performance liquid chromatography-tandem mass spectrometry ..... WU Yancan, QI Chuanyong, CAO Haiqun\*, SU Yiling, SHANG Luning, TAN Genjia, JIANG Bingxin (1)58

- Residue and dissipation dynamics of 38% pyraclostrobin·boscalid SC in strawberry and soil .....  
 ..... YANG Xiaohong, ZHAO Nannan, ZHAO Wenwen, LIU Huijun\*, JIN Fen\*, JIA Minghong (1)67
- Residue analysis of flumioxazin in food and environment by modified QuEChERS method using high performance liquid chromatography-tandem mass spectrometry and the dissipation dynamics in soil .....  
 ..... CHENG Gong, LIU Na, TIAN Hongzhe, ZHU He, JI Mingshan\* (1)75
- Determination of cyantraniliprole and its metabolite in maize plant and soil by QuEChERS and ultra-performance liquid chromatography tandem mass spectrometry .....  
 ..... DING Jinfeng, XU Chunmei, ZHANG Wei, ZOU Nan, MU Wei\* (1)83
- Investigation and risk assessment of polychlorinated biphenyls, heavy metals in *Ictalurus punctatus*, sediment and water in Jiangsu Province .....  
 ..... ZHAO Ling\*\*, CHEN Weizheng\*\*, ZHOU Beilei, SHEN Yan, LIU Xianjin, ZHANG Cunzheng\* (1)90
- Review of the pesticides registered on major nectar crops in China and the primary risk assessment of the insecticides to honey bees .....  
 ..... LIAO Jianhua, CHENG Yan\*, BU Yuanqing, TAN Lichao, ZHOU Junying, SHAN Zhengjun (1)100
- Adsorption and desorption behavior of rotenone in three different soils .....  
 ..... XU Zhiying, REN Li, CHEN Xiaojun\*, MENG Zhiyuan, SONG Yueyi, REN Yajun, XU Shunfei, ZHANG Yingdi (1)110
- Synthesis and anti-tobacco mosaic virus activity of oligopeptide chiral thioureas containing phosphonate moiety .....  
 ..... LIAO Peng, HU Shiqin, ZHANG Hong, LIU Jingzi\* (2)153
- Secondary metabolites of *Xenorhabdus nematophila* SN313 and their inhibitory activities against plant pathogenic fungi .....  
 ..... LI Fenglin, LIU Huanzeng, XI Xuedong, YU Zhiguo\* (2)163
- Dual control plasmid construction and expression optimization of *Sorghum bicolor* ARS for a novel sorgoleone herbicide biosynthesis .....  
 ..... BAO Yingling, WANG Lei, ZHAO Di, ZHENG Zehua, JING Dibo, JIA Xiaoqin, LU Yuele, LI Zhong, CHEN Xiaolong\* (2)169
- Rapid detection of target-site resistance to mesosulfuron-methyl in *Alopecurus aequalis* .....  
 ..... GUO Wenlei, BAI Shuang, CHI Yanyan, FENG Li, WANG Jinxin\* (2)178
- Combined effects of *Serratia marcescens* S-JS1 with five insecticides against *Laodelphax striatellus* and the effect of S-JS1 on activities of relative enzymes in *L. striatellus* .....  
 ..... NIU Hongtao, XIAO Lijunjie, WANG Na, LIU Baosheng, YU Tiancong, GUO Huifang\* (2)185
- Resistance of *Alternaria alternata* to thiophanate-methyl, procymidone and its baseline sensitivity to prochloraz .....  
 ..... DAI Dejiang, LIU Yahui, SHEN Yao, ZHANG Chuanqing\* (2)192
- Determination of triptolide, wilforgine and wilforine in *Tripterygium wilfordii* by high performance liquid chromatography-electrospray ionization tandem mass spectrometry .....  
 ..... ZHANG Jing, CHEN Mengmeng, PU Shi, ZHU Chuanshu, ZHANG Xing\* (2)197
- Determination of cyazofamid and its metabolite CCIM residue in cucumber and soil with a modified QuEChERS method by ultra performance liquid chromatography-tandem mass spectrometry .....  
 ..... ZHANG Cuifang\*\*, CHEN Zhaojie\*\*, SONG Shiming, CHENG Xiran, LEI Yuhao, TAN Huihua, LI Xuesheng\* (2)204
- Dissipation dynamics and preliminary dietary risk assessment of thiamethoxam and clothianidin in *Benincasa hispida* .....  
 ..... LIU Yanping\*\*, WANG Siwei\*\*, SUN Haibin\*, WANG Xiaonan (2)211
- Determination of isopyrazam and its metabolites residues in watermelon and cucumber by gas chromatography-tandem mass spectrometry .....  
 ..... ZHI Shenwei, ZHAO Ercheng\*, LI Xinghai, JIA Chunhong (2)217
- Residues and dissipation dynamics of chlorantraniliprole and pyraclostrobin in *Dendrobium officinale* .....  
 ..... XU Zhenlan, CHEN Liping, XU Mingfei, JIANG Yizhi, YU Yijun, WANG Qiang, ZHAO Xueping\* (2)223
- Residues behavior and dietary intake risk assessment of malathion in *Cucurbita pepo* L. ....  
 ..... LIU Yiping, LUO Xiangwen, CHEN Wurong, ZHENG Zuntao, ZHU Guangyan, JIAN Qiu, QIN Dongmei, LIAO Xiaolan\*, LI Xiaogang\* (2)232
- Effects of four spray adjuvants on the rainfastness of azoxystrobin on maize leaf surfaces and their effect on maize safety .....  
 ..... ZHANG Ping, JIANG Xingyin\*, TAN Haili, SHANG Dianlong, LI Xiangdong, ZHANG Jiawang (2)239
- Design, synthesis and fungicidal activity of novel isoxazolines from eugenol .....  
 ..... SONG Zehua, XIAO Taifeng, LI Shengkun\* (3)279

- Synthesis and fungicidal activity evaluation of 2-thiazolyl amide cyclohexane-sulfonamide .....  
 ..... YANG Yonggui, MENG Siqi, QI Zhiqiu, JI Mingshan, LI Xinghai\* (3)287
- Polymorphism of *S*-indoxacarb and its impact on insecticide activity .....  
 ..... CHENG Jingli, XIAO Douxin, ZHENG Min, ZHAO Jinhao\* (3)294
- Effects of concentration, droplet density of propiconazole and kresoxim-methyl on the efficacy against wheat powdery mildew .....  
 ..... KONG Xiao, YAN Xiaojing, YANG Daibin, YUAN Huizhu\* (3)301
- Evaluation of herbicidal activity and safety to cotton of the combination of flumioxazin and pendimethalin .....  
 ..... WANG Hengzhi, TAN Jinni, LV Xueshen, ZHAO Kongping, LIU Weitang, WANG Jinxin\* (3)309
- Chemical constituents from the aerial parts of *Cirsium japonicum* and their antifungal activities .....  
 ..... JIANG Lirong, JI Zhiqin\* (3)316
- Toxicity of forchlorfenuron for four-week oral administration in SD rats .....  
 ..... PING Li, QIAN Renyun, HONG Yawen, CHEN Chao, ZHU Difeng\* (3)323
- Identification and antifungal activity of marine *Bacillus velezensis* strain TCS001 .....  
 ..... YANG Ke, ZHENG Kebin, HUANG Xiaohui, YUAN Jing, CHEN Jie\* (3)333
- Study on the photolysis and hydrolysis characteristics of procymidone .....  
 ..... HOU Li'na, MENG Ge, WEN Yong, SHI Haiyan, HUA Xiude\*, WANG Minghua (3)340
- Study on residue behavior of cypermethrin in chrysanthemum and lettuces .....  
 ..... LI Jindong, WANG Xia, GAO Jing, QI Yanli,  
 LIAN Shaobo, REN Pengcheng, SUN Ruiqing, WANG Jing, QIAO Xiongwu, QIN Shu\* (3)348
- Determination of 15 pesticides residues in rice by ultra performance liquid chromatography-tandem mass spectrometry .....  
 ..... HUANG Lanqi, CHEN Xiu, ZHANG Zhengwei, MA Lin, ZHAN Xiuping, CHEN Jianbo, ZHAO Li\* (3)354
- Determination of cyromazine and melamine residues in fruiting body and casing soil of *Agaricus bisporus* by isotope-labeled  
 internal standard method .....  
 ..... SONG Weiguo, RAO Qinxiong, CHEN Shanshan, LU Yangyang, ZHANG Qicai\* (3)363
- Determination of 6 pesticides residues in *Fritillaria thunbergii* by ultra performance liquid chromatography-tandem mass  
 spectrometry .....  
 ..... YU Jianzhong, CANG Tao, DAI Fen, ZHAO Xueping\* (3)370
- Residue and dissipation dynamics of flubendiamid and buprofezin in *Zizania latifolia* by ultra performance liquid chromatography-  
 tandem mass spectrometry .....  
 ..... XU Feng, YU Jiayong, WU Yinliang\*, YE Zihong\* (3)377
- Preparation of abamectin · pyraclostrobin · triadimefon 15% hot fogging concentrate .....  
 ..... SHAN Qiheng, ZENG Gengdi, WANG Meng, ZHANG Yu, LIANG Xiaoyu\* (3)384
- Sensitivity of *Sogatella furcifera* to cycloxaprid at different temperatures .....  
 ..... REN Zhijie, MAO Kaikai, LI Pengyue,  
 LIU Chaoya, WANG Yue, LI Jianhong, WAN Hu, HE Shun\* (4)439
- Sensitivity of *Fusarium graminearum* to pydiflumetofen and its field efficacy on fusarium head blight .....  
 ..... XIANG Libo, YANG Lijun, XUE Minfeng, ZHANG Xuejiang,  
 ZENG Fansong, SHI Wenqi, SONG Yuansheng, GONG Shuangjun\*, YU Dazhao (4)445
- Sensitivity and resistance mechanism to boscalid of *Botrytis cinerea* from strawberry in Shanghai .....  
 ..... LIU Xin, WU Yan, CHENG Wei, ZENG Rong, XU Lihui, GAO Shigang, DAI Fuming\* (4)452
- Residue determination of 15 carbamates and their metabolites in Chinese cabbages and pakchoi by QuEChERS-ultra high  
 performance liquid chromatography-QDa mass spectrometry .....  
 ..... WANG Chunqiang, QIAN Yongzhong, ZHANG Chenghui\*, QIU Jing\* (4)459
- Residue and dissipation of florasulam and fluroxypyr in wheat and soil by QuEChERS-ultra performance liquid chromatography-  
 tandem mass spectrometry .....  
 ..... JIN Tao, DUAN Jinsheng\*, GAO Tongchun\* (4)468
- Degradation regularity of four field-incurred insecticides in rice during processing .....  
 ..... ZHAN Liwei, SHEN Fengping, SHEN Li, JIANG Xiaojin, MOU Renxiang, MA Youning\* (4)477
- Residues and dissipation dynamics of flumioxazin in soybean and soil samples .....  
 ..... ZHANG Shuang, LIU Na, CHENG Gong, YANG Qingxi, JI Mingshan\* (4)487
- Determination of ethephon residue in fruits and vegetables by gas chromatography after derivatization with (trimethylsilyl)  
 diazomethane .....  
 ..... CHEN Keyun, WANG Yanli, SHEN Xiangzhen, JU Xiang, HU Mei, LIU Yanming\*, ZHU Jianhua\* (4)495

- Phloem mobility of metalaxyl in *Ricinus communis* seedling under different culture conditions .....  
 ..... YU Linhua, YU Diya, ZHANG Min, LI Xujun, ZHU Xiang, XU Zhihong, WU Qinglai\*, LI Junkai\* (4)500
- Release behavior and bioactivity evaluation of pyraclostrobin/silica microspheres .....  
 ..... WANG Ya, WANG Yuxiang, ZHANG Ying, ZHANG Xing, CHEN Wei, LI Xiaogang\* (4)506
- Preparation technology of 1% emamectin benzoate microcapsule suspensions .....  
 ..... YANG Bin, ZHU Shunshun, ZHANG Dengke\*, ZHU Guonian (4)514
- Film-forming properties of pinolene on leaf surface ..... ZHU Chang, HAN Qunqi, CHEN Anliang\* (4)523
- Effects of tree species and crown size on the absorption and conduction of insecticides applied by trunk injection .....  
 ..... ZHANG Juan, LI Jun, HUANG Jun\*, TANG Yayuan, SHI Xiaohua (4)529
- Synthesis and fungicidal activity of *N*-(2-trifluoromethyl-4-chlorophenyl)-2-pyrazoleamide cyclohexylsulfonamides .....  
 ..... MENG Siqi, YANG Yonggui, JI Mingshan, QI Zhiqiu, LI Xinghai\* (5)568
- Reproductive toxicity and oxidative stress of chlorantraniliprole to two springtails (Collembola) .....  
 ..... WU Ruohan, YAN Haijuan\*, DING Yue, DONG Xue, GE Changyan, YU Xiangyang (5)577
- Effects of glyphosate ammonium on antioxidant enzyme and malondialdehyd in three kinds of mudflat animals and on the  
 micronuclei in erythrocyte of *Boleophthalmus pectinirostris* .....  
 ..... YUAN Jianjun, XIE Jiahua, ZHANG Meng, CHEN Xixiang, YU Xiangyang\* (5)587
- Resistance level and target-resistance molecular mechanism to nicosulfuron in *Amaranthus retroflexus* .....  
 ..... GE Lu'an\*\*, WANG Hao\*\*, ZHAO Ning, ZHANG Lele, LIU Weitang\*, WANG Jinxin\* (5)595
- Sensitivity of *Sclerotinia sclerotiorum* from vegetables to tetramycin in Shandong Province.....  
 ..... HUANG Xueping, SONG Yufei, XIAO Bin, MU Wei, LIU Feng\* (5)601
- $\gamma$ -Aminobutyric acid on oxidative damage and endogenous hormones in maize seedling roots under salt stress.....  
 ..... WANG Yongchao, ZHENG Boyuan, GU Wanrong, LI Zhuo, MAO Jun, GUO Jiameng, SHAO Ruixin, YANG Qinghua\* (5)607
- Effects of exogenous GA<sub>3</sub> on leaf senescence and endogenous hormones content of the leaves in muskmelon fruiting nodes .....  
 ..... LI Tian, LIU Haihe\*, ZHANG Yanping, CHEN Qianyun, ZUO Binbin (5)618
- Effect of phthalanilic acid on the endogenous hormone content of leaves and fruit quality and yield of peppers.....  
 ..... WU Qiong, ZHANG Rong, LI Zihao, MA Zhiqing\*, ZHANG Xing (5)625
- Identification of a biocontrol actinomycete strain CY-14 and the effect of its fermentation broth on *Colletotrichum musae* .....  
 ..... ZHANG Yuefeng, GU Liushuang, LIU Zhiqiang, LI Xiaoyu\* (5)634
- Isolation, screening and application potential evaluation of deltamethrin-degrading microorganism .....  
 ..... HUANG Wenyuan, HOU Shaofeng, LONG Youhua, LI Ming,  
 WU Xiaohu, XU Jun, LIU Xingang, DONG Fengshou, WU Xiaomao\*, ZHENG Yongquan\* (5)643
- Degradation of nicosulfuron by *Bacillus cereus* and toxicity of the degradation product 2-amino-4,6-dimethoxy pyrimidine to  
 environmental organisms ..... DANG Jingjing, YANG Dongchen, ZHANG Zhe, WANG Zhenmei, ZHANG Jinlin\* (5)652
- Matrix effects in the analysis of 36 pesticides residues in nine kinds of green leafy vegetables by ultra performance liquid  
 chromatography-tandem mass spectrometry ..... QIU Shiting\*, PU Fenglin, HOU Xue, HAN Mei, GUO Ling'an (5)661
- Preparation and sustained-release performance of novel amphiphilic polysaccharide-based tebuconazole nanocapsules .....  
 ..... LU Wenjun, ZENG Chuchu, GUO Ming\*, LIN Haiping, GUAN Ying (5)668
- Synthesis and insecticidal activities of diamides containing monofluoromethoxy group.....  
 ..... ZHANG Donglin, YANG Sen, YANG Ren, PEI Dan, ZHANG Fan, LIU Jie, LI Jianye, TAN Chengxia\* (6)715
- Study on induced disease resistance of two novel derivatives: a pyrazolopyrimidine derivative BDO-1 and a pyridazinone derivative  
 PDZ-1 ..... SHI Yanxia, ZHANG Xiaohui, XIE Xuwen, CHAI Ali, XU Yufang, ZHAO Zhenjiang, LI Baoju\* (6)721
- Resistance to boscalid in *Botrytis cinerea* in Zhejiang Province .....  
 ..... LIN Zesong, ZHAO Shuaifeng, HUANGFU Yunhong, WU Jianyan, WANG Huadi, ZHANG Chuanqing\* (6)729
- Sensitivity of *Rhizoctonia solani* to thifluzamide in Shandong Province and the biological characteristics of resistant mutants.....  
 ..... SHANG Dianlong, JIANG Xingyin\*, LIU Yu, SUN Xiuying, LI Xiangdong, ZHANG Jiwang (6)735

- Pathogen detection, carbon metabolic phenotype analysis of *Rhizopus oryzae* from tobacco and its sensitivity to seven fungicides ..... WANG Hancheng\*, ZHANG Min, ZHANG Changqing\*, CHEN Xingjiang, TAN Qingqun, MA Jun\*, LI Zhong (6)743
- Effects of imidacloprid or sulfoxaflor on the expression of cytochrome P450 genes in greenbug (*Schizaphis graminum* Rondan) based on RNA sequencing ..... ZHANG Baizhong\*\*, MA Kangsheng\*\*, LIU Junjie, LU Liuyang, XIE Lanfen, KONG Fanbin, CHEN Xiling\*, GAO Xiwu\* (6)749
- Toxicity of difenoconazole and azoxystrobin on the growth and development of *Bombyx mori* ..... MO Xiufang, LI Xinghan, WANG Xiaolan, YIN Xiaohui\* (6)758
- Construction and application of pesticide trace model on human health and environmental impacts ..... ZHANG Zhiheng\*, HU Xiuqing, WANG Wen, PAN Canping, LIU Lin (6)765
- Determination of 4 pesticide residues in hazelnut by modified QuEChERS method using high performance liquid chromatography-tandem mass spectrometry ..... YANG Qingxi, LIU Na, ZHANG Shuang, HAO Yanke, ZOU Yize, GU Zumin\* (6)776
- Residues and dissipation dynamics of pentoxazone in rice paddy ..... TANG Tao, GAO Yunhao, MIAO Wanpeng, XU Zhenlan, ZHANG Changpeng, ZHAO Xueping\* (6)783
- Residual dynamics and risk assessment of fosthiazate in sugar cane and soil ..... WANG Siwei\*\*, LIU Yanping\*\*, WANG Xiaonan, SUN Haibin\* (6)790
- Leaching behavior of three pyrethroid pesticides in sandy soil and loam ..... XU Jiabin, ZHENG Zhao, WANG Lufang, LYU Xiaoqin, WANG Meng, ZHANG Yu\* (6)797
- Effects on wettability of 10% difenoconazole water dispersible granule with adjuvants on litchi leaves ..... WANG Xiaonan\*\*, LIU Yanping\*\*, WANG Siwei, SUN Haibin\* (6)803

## RESEARCH NOTES

- Acute and chronic toxicities of spirotetramat to *Daphnia magna* ..... CHEN Ying, TAO Fangyi, LIU Xunyue, WANG Mengcen, RAO Qiong, GU Danlu, WU Huiming\* (1)118
- Determination of sedaxane in brown rice by QuEChERS-liquid chromatography-tandem mass spectrometry ..... JIANG Huatao, YOU Xiangwei, ZHANG Guangyu, SUI Chengcheng, WANG Xiuguo, LI Yiqiang\* (1)124
- QuEChERS-determination of chlorantraniliprole residues in primary grain and oilseed crops by high performance liquid chromatography-tandem mass spectrometry ..... MA Jingwei, MA Huan, AN Li, WU Jiakai, WANG Hong, QI Yufeng, CHEN Yin, WU Xujin\* (1)129
- Sensitivity of *Colletotrichum higginsianum* isolated from *Brassica parachinensis* to prochloraz in Guangdong Province from 2009 to 2014 ..... LAN Guobing\*\*, YU Lin\*\*, HE Zifu\*, SHE Xiaoman, TANG Yafei, DENG Mingguang (2)249
- Processing and application of nicosulfuron degrading bacterium *Bacillus subtilis* YB1 granules ..... ZHANG Zhe, YANG Shusen, YANG Dongchen, ZHANG Jinlin\* (2)254
- Isolation and structure identification of dodoneaviscoside A from the seeds of *Dodonaea viscosa* and its antifeedant activity against *Plutella xylostella* (L.) ..... ZHANG Yang\*\*, FU Lixin\*\*, FAN Liming, QIN Xiaoping\*, YE Min\* (3)390
- Acute toxicity study of xinaomycin TK to five non-target organisms ..... SHEN Yan, SUN Ruyi, LI Lei, LI Peiming, ZHOU Fengyan, GAO Tongchun, WANG Mei, ZHANG Yong\* (4)535
- Residue and dissipation dynamics of dithianon and pyraclostrobin in apples ..... LAN Feng, ZHOU Xianxue, LI Xiaoliang, WANG Zhixin, DUAN Xiaona, LU Zeqi, JIANG Wei, LIU Chuande\* (4)540
- Isolation and insecticidal activity of aliphatic chain amides isolated from *Piper hancei* ..... DONG Cunzhu, GUO Jinquan, ZHOU Xueming, XU Hanhong\* (5)679
- Residue analysis of ivermectin on *Myrica rubra* based on QuEChERS-ultra performance liquid chromatography-tandem mass spectrometry ..... WANG Quansheng, FU Yan, ZHANG Liang, LING Shuping, ZHU Yong, ZHAO Jian, WU Yinliang\* (5)684
- Uptake and translocation of flucarbazone-sodium in *Avena fatua* ..... FAN Tianle, WEI Qinjie, CHEN Xiaojun\*, SONG Yueyi, REN Li, GUAN Lingjun (6)809
- Residues and dissipation of clothianidin in pears ..... LAN Feng, LIU Xuan, LI Xiaoliang, ZHOU Xianxue, LIU Chuande, WANG Zhixin\*, LU Zeqi, JIANG Wei (6)814