

中文核心期刊  
中国精品科技期刊  
中国科技核心期刊  
“中国科学引文数据库”源刊

# 农药学学报

Nongyaoxue Xuebao

1999 年创刊

(季刊)

第 12 卷 第 3 期

2010 年 9 月

主管: 中华人民共和国教育部

主办: 中国农业大学

名誉主编: 陈万义

主编: 王道全

编辑部主任: 金淑惠

责任编辑: 金淑惠 唐 静

英文审校: 潘灿平 邱立红

编辑出版:《农药学学报》

编辑部

地址: 北京海淀区圆明园西路

2号中国农业大学理学院

邮编: 100193

电话(传真): 010-62733003

E-mail: nyxuebao@263.net

网 址: http://www.nyxxb.com.cn

国内总发行:

北京市报刊发行局

订阅: 全国各地邮局(所)

邮发代号: 2-949

每期定价: 25.00 元

国外总发行:

中国国际图书贸易总公司

国外发行代号: 1505Q

ISSN 1008-7303  
刊号: CN 11-3995/S

印刷: 北京科信印刷厂

广告经营许可证:

京海工商广字第 0313 号

## 目 次

“庆祝钱传范教授八十年诞辰”专栏	
由规范残留试验数据推荐农药最大残留限量的方法概述	李晶, 徐军, 董丰收, 等(237)
农药职业健康风险评估方法	李敏, 张丽英, 陶传江(249)
4-甲基-1,2,3-噻二唑-5-甲酸芳酯的合成及生物活性	王守信, 米娜, 范志金, 等(255)
取代苯甲醛缩氨基硫脲(脲、硝基脲)类化合物的合成及其对小菜蛾酯氨酸酶的抑制活性	王振, 董玮, 徐焱, 等(264)
吡啶衍生物研究Ⅷ: 2-烷氨基-5-(2-芳氧吡啶-3-基)-1,3,4-噻二唑类衍生物的合成与生物活性	冉兆晋, 袁会珠, 曹坳程, 等(269)
5-(羟基亚甲基)-2,4-咪唑啉二酮酯的合成及除草活性	韩金涛, 陈守聪, 刘吉平, 等(274)
三环己基氯化锡对烟草花叶病毒的抑制作用	李祝, 周蕴贊, 陈伟, 等(279)
超高效液相色谱-串联质谱法测定甘蓝和土壤中的醚菊酯残留	纪然, 朱光艳, 刘冰(283)
直接竞争酶联免疫吸附分析法测定甘蔗中的克百威残留	刘腾飞, 刘曙照(289)
分散固相萃取-超高效液相色谱-串联质谱法快速检测棉花和土壤中氟铃脲的残留	盛宇, 徐军, 刘新刚, 等(294)
苯醚甲环唑在茶叶中的残留量及其在茶汤中的浸出动态研究	王军, 刘丰茂, 温家钧, 等(299)
漩涡辅助液液微萃取和气相色谱法分析水样中甲草胺、乙草胺和丁草胺残留	张学博, 王德, 赵尔成, 等(303)
QuEChERS/GC-MS 快速分析土壤中的苯醚甲环唑残留	薛晓航, 戴守辉, 张璐珊, 等(309)
机动弥雾法施用 70% 吡虫啉分散粒剂防治小麦蚜虫的雾滴沉积密度与防效的关系	崔丽, 王金凤, 秦维彩, 等(313)
农药剂型、喷雾参数与采样方法对代森锰锌在小油菜上原始沉积量的影响	秦曙, 庞斌, 乔雄梧, 等(319)
联苯菊酯-β-环糊精包合物的制备及其光谱研究	胡奕俊, 徐妍, 马超, 等(324)
研究论文	
三种杀线虫剂对甘薯茎线虫扩散的 Hormesis 效应	何琪, 丁中, 张声扬, 等(329)
浙江居民毒死蜱和氯氰菊酯的长期膳食暴露与风险评估	张志恒, 袁玉伟, 王强, 等(335)
基质固相分散-高效液相色谱法测定玉米中 7 种苯氧羧酸类除草剂的残留	洪海燕, 殷培军, 魏艳, 等(344)
高效液相色谱法测定苹果中多菌灵残留量的测量不确定度分析	杨媛, 石磊, 李文生, 等(349)
稻田施用氯氟吡氧乙酸后其在水稻植株、糙米、稻壳、土壤和田水中的残留消解动态	段劲生, 彭梅, 王梅, 等(355)
啶虫脒和阿维菌素在 4 种不同类型土壤中的吸附及迁移	赖作旺, 邓新平, 王小天, 等(361)
研究简报	
近红外光谱法快速测定农药中溴氰菊酯含量	熊艳梅, 李春子, 王冬, 等(367)
相关信息及其他	
《农药学学报》拟于 2011 年起变更为双月刊(248); 欢迎订阅 2011 年《农药学学报》及《中国农药学学科发展史料汇编》增刊(263, 278); 征订启事(254, 288, 334, 360)	
期刊基本参数:	CN 11-3995/S * 1999 * q * A4 * 134 * zh * P * ¥25.00 * 23 * 2010-09

**CHINESE JOURNAL  
OF PESTICIDE  
SCIENCE**

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

Founded in 1999 (Quarterly)

**Vol. 12 No. 3**

**September, 2010**

**Responsible Institution**

Ministry of Education of the People's  
Republic of China

**Sponsor**

China Agricultural University

**Honorary Editor-in-Chief**

CHEN Wan-yi

**Editor-in-Chief**

WANG Dao-quan

**Responsible Editors**

JIN Shu-hui TANG Jing

**English Editors**

PAN Can-ping QIU Li-hong

**Edited and Published**

The Editorial Office of Chinese  
Journal of Pesticide Science

**Address**

College of Science, China Agricultural  
University, Beijing 100193, China

Tel/Fax: +86-10-62733003

E-mail: nyxuebao@263.net

http://www.nyxxb.com.cn

**Domestic Distribution**

Beijing Bureau for Distribution of  
Newspapers and Journals

Local Post Offices in China  
(Code: 2-949)

**Overseas Distribution**

China International Book Trading  
Corporation (P. O. Box 399, Beijing,  
China) (Code: 1505Q)

**Printed by**

Beijing Kexin Printing House

**CSSN:**

ISSN 1008-7303

CN 11-3995/S

## CONTENTS

### SPECIAL COLUMN

- Overview on the statistically-based methods for establishing MRLs based on supervised field trial data ..... *LI Jing, XU Jun, DONG Feng-shou, et al*(237)  
Approach of pesticide occupational risk assessment ..... *LI Min, ZHANG Li-ying, TAO Chuan-jiang*(249)  
Synthesis and biological activity of 4-methyl-1,2,3-thiadiazole-5-carboxylates ..... *WANG Shou-xin, MI Na, FAN Zhi-jin, et al*(255)  
Synthesis of substituted benzylidene hydrazinecarbothioamide (hydrazinecarboxamide, nitrohydrazinecarboximidamide) and their inhibitory activity on tyrosinase of diamondback moth *Plutella xylostella* (L.) ..... *WANG Zhen, DONG Wei, XU Yan, et al*(264)  
Studies on pyridine derivatives (VII): Synthesis and bioactivity of 2-alkylamino-5-(2-aryloylpyrid-3-yl)-1,3,4-thiodiazoles ..... *RAN Zhao-jin, YUAN Hui-zhu, CAO Ao-cheng, et al*(269)  
Synthesis and herbicidal activity of 5-(4-hydroxymethylene)hydantoin esters ..... *HAN Jin-tao, CHEN Shou-cong, LIU Ji-ping, et al*(274)  
Mechanism of tobacco mosaic virus by tricyclohexyltin chloride ..... *LI Zhu, ZHOU Yun-yun, CHEN Wei, et al*(279)  
Determination of ethofenprox residue in cabbage and soil by UPLC-MS ..... *JI Ran, ZHU Guang-yan, LIU Bing*(283)  
Determination of carbofuran residue in sugarcane by direct competitive enzyme-linked immunosorbent assay ..... *LIU Teng-fei, LIU Shu-zhao*(289)  
Simplified method for determination of hexaflumuron residues in cotton and soil using QuEChERS and UPLC-MS/MS ..... *SHENG Yu, XU Jun, LIU Xin-gang, et al*(294)  
Study on residue of difenoconazole in tea and its transfer from made tea to infusion ..... *WANG Jun, LIU Feng-mao, WEN Jia-jun, et al*(299)  
Determination of metoalchlor, acetochlor and butachlor residues in water samples using vortex-assisted liquid-liquid microextraction and gas chromatography analysis ..... *ZHANG Xue-bo, WANG De, ZHAO Er-cheng, et al*(303)  
Rapid determination of difenoconazole residue in soil using QuEChERS/GC-MS ..... *XUE Xiao-hang, DAI Shou-hui, ZHANG Lu-shan, et al*(309)  
Relationship between droplet density and field efficacy when applying imidacloprid 700WG against wheat aphids with knapsack mist-blower ..... *CUI Li, WANG Jin-feng, QIN Wei-cai, et al*(313)  
Effects of formulation, spray parameters and sampling methods on initial residue of mancozeb in cole ..... *QIN Shu, PANG Bin, QIAO Xiong-wu, et al*(319)  
Preparation and properties of an inclusion compound of  $\beta$ -cyclodextrin with bifenthrin ..... *HU Yi-jun, XU Yan, MA Chao, et al*(324)

### RESEARCH REPORTS

- Hormesis effect of three nematicides on the dispersal of *Ditylenchus destructor* ..... *HE Qi, DING Zhong, ZHANG Sheng-yang, et al*(329)  
On the long-term dietary exposure and its risk assessment of chlorpyrifos and cypermethrin for the residents in Zhejiang Province ..... *ZHANG Zhi-heng, YUAN Yu-wei, WANG Qiang, et al*(335)  
Residual analysis of 7 phenoxyacid herbicides in corn by MSPD-HPLC ..... *HONG Hai-yan, YIN Pei-jun, WEI Yan, et al*(344)  
Evaluation of uncertainty in measurement of carbendazim residue in apple determined by high-performance liquid chromatography ..... *YANG Yuan, SHI Lei, LI Wen-sheng, et al*(349)  
Study on residue decline dynamics of fluroxypyr in rice plant, rice and rice hull, paddy soil and water ..... *DUAN Jin-sheng, PENG Mei, WANG Mei, et al*(355)  
Adsorption and mobility of acetamiprid and abamectin in four soils ..... *LAI Zuo-wang, DENG Xin-ping, WANG Xiao-tian, et al*(361)

### RESEARCH NOTES

- Rapid determination of the content of deltamethrin in agrochemicals by near-infrared spectroscopy ..... *XIONG Yan-mei, LI Chun-zi, WANG Dong, et al*(367)