

第 1 期

农学

梗稻台中 65 及其 F₁ 花粉不育近等基因系和它们的 F₁ 花药培养特性 姚 焱, 卢永根, 刘向东, 等 (1)

水稻强化栽培试验研究 陆秀明, 黄 庆, 刘 军, 等 (5)

施氮量对两优培九产量与品质的影响 王秀芹, 张洪程, 徐巡军, 等 (9)

甘蔗不同基因型愈伤组织生化性状的研究 谭中文, 梁计南, 谭志勇, 等 (14)

刈割、AM 真菌和施磷对根箱栽培中柑橘和柱花草生长的影响 姚 青, 朱红惠, 胡志群, 等 (18)

造纸黑液木质素对尿素氮在土壤中转化与生物利用的影响 彭俊杰, 王德汉, 廖宗文 (21)

锯末基质中氮磷钾施用量与番茄幼苗生长的关系 孙治强, 李胜利, 张艳玲 (25)

营养型土壤改良剂对酸性土壤中磷的活化及玉米吸磷的影响 郭和蓉, 陈琼贤, 郑少玲, 等 (29)

火炬松引种家系的遗传变异及速生稳定性综合评价 孙小霞, 梁一池, 阮少宁 (33)

植物保护

寄生蜂和杀虫剂对烟粉虱种群的控制效果 邱宝利, 任顺祥, 吴建辉, 等 (37)

几种常用杀虫药剂对烟粉虱种群数量的影响 沈斌斌, 任顺祥, 吴建辉, 等 (40)

过氧化氢降解有机磷农药的研究

I. 降解性能及影响因素 方剑锋, 曾鑫年, 熊忠华, 等 (44)

欧亚种葡萄对霜霉病和黑痘病的抗性及其关系 刘会宁, 李丛玉, 吴广宇 (48)

3 种苯氧羧酸类除草剂防除薇甘菊药效研究 黄华枝, 赵京斌, 黄炳球, 等 (52)

葛藤节肢动物类群组分及主要种类数量动态 李建丰, 田明义, 古德就, 等 (56)

复合茶园昆虫类群多样性和稳定性研究 陈亦根, 熊锦君, 黄明度, 等 (59)

栗瘿蜂在板栗林的分布及抽样技术 李奕震, 易叶华, 郑柱龙, 等 (62)

生命科学

RFLP 缩减杂交技术的改良与水稻雄性不育细胞质基因组差异片段的克隆 张群宇, 刘耀光 (66)

香蕉胚性愈伤组织的诱导及胚性细胞悬浮系的建立 徐春香, B. PANIS, H. STROSSE, 等 (70)

不同方法对酵母细胞膜通透性的影响 刘晓艳, 丘泰球, 黄卓烈 (74)

广东鹅凰嶂自然保护区珍稀濒危植物及保育 王发国, 叶华谷, 叶育石 (77)

广东石门台自然保护区森林土壤无脊椎动物群落多样性 李志伟, 童晓立, 张维球, 等 (80)

中国长颚步甲属 *Stomis* Clairville 及云南产一新种记述 (鞘翅目: 步甲科: 通缘步甲亚科) 田明义, 潘涌智 (85)

动物科学与兽医学

鸡新城疫抗原抗体复合物疫苗的研究 李永红, 毕英佐, 曹永长 (88)

O 型口蹄疫病毒 VP1 基因的克隆与表达 林瑞庆, 罗满林, 黄毓茂, 等 (92)

不同剂量 CpG 序列对仔猪的免疫增强效果 田兴山, 张玲华, 邝哲师, 等 (96)

禽大肠杆菌 O₂、O₇₈ 菌株外膜蛋白 A 基因扩增及序列分析 曹素芳, 黄青云, 温纳相, 等 (99)

农业工程与食品科学

电磁振动组合式毯状秧苗播种装置的设计与试验 郑丁科, 李志伟, 区颖刚 (103)

菌种对腐乳前发酵过程中大豆异黄酮含量的影响 刘 欣, 龚 丽, 刘观福, 等 (107)

基础科学

关于非正态总体的工序能力指数 C_p 值计算的研究 郭正光, 张国权, 魏福义 (110)

聚乙二醇/蒙脱石插层复合物的制备及结构表征 卢其明, 余林梁, 陈 敏, 等 (112)

研究简报

比格犬脑垂体结节部细胞的电镜观察 李玉谷, 张 媛, 程树军, 等 (115)

玉米新不育胞质 WB 的线粒体类质粒鉴定 李小琴, 万邦惠, 刘纪麟, 等 (118)

中国植物志堇菜科 <i>Violaceae</i> 拾遗	邢福武, 秦新生 (120)
海南植物增补 (Ⅷ)	秦新生, 严岳鸿, 陈红锋, 等 (122)
霉草科 <i>Triuridaceae</i> —— 广东省分布新记录 (英文)	庄雪影, 彭逸生, 张 浩 (124)

第 2 期

农学

甘蔗蔗汁锤度和还原糖分傅立叶变换近红外定量分析数学模型	曹 干, 谭中文, 梁计南, 等 (1)
不同覆盖条件下甘蔗土壤微生物区系研究	郑 超, 谭中文, 刘可星, 等 (5)
NAA 增大荔枝果实及原因分析	李建国, 黄旭明, 黄辉白 (10)
仙人球水培种植初探	林东教, 罗 健, 刘士哲, 等 (13)
导数光谱在棉花农学参数测定中的作用	王秀珍, 李建龙, 唐延林 (17)
用主成分法进行林分及相关因子光谱特征研究	林伟桦, 杨燕琼, 侯长谋 (22)

植物保护

氮营养对菜心炭疽病抗性生理的影响	
I. 氮营养对菜心炭疽病及细胞保护酶的影响	杨 暹, 陈晓燕, 冯红贤 (26)
广东柑橘疫霉研究	成家壮, 韦小燕, 范怀忠 (31)
芒果炭疽病菌对多菌灵的抗药性监测	徐大高, 潘汝谦, 郑 仲, 等 (34)
过氧化氢降解有机磷农药的研究	
II. 降解动力学及降解液的毒性	方剑锋, 曾鑫年, 于 飞, 等 (37)
水分对印楝素稳定性的影响	田永清, 徐汉虹, 张志祥 (41)
不同种类杀虫剂对美洲斑潜蝇及天敌的作用评价	曾 玲, 梁广文, 吴佳教 (44)
葛藤主要节肢动物类群种间关联的研究	李建丰, 田明义, 古德就, 等 (48)
斯氏线虫对亚洲玉米螟种群的控制作用	胡学难, 梁广文, 曾 玲 (52)
低温冷藏对卷蛾分索赤眼蜂繁殖品质的影响	陈科伟, 刘丽庄, 方楚明, 等 (56)
中华微刺盲蝽对棉蚜的控制作用	余金咏, 吴伟坚, 梁广文, 等 (60)

生物学

体胚发生途径香蕉‘大矮蕉’植株的再生	徐春香, B. PANIS, H. STROSSE, 等 (63)
10 个特选水稻品种的离体培养特性 (英文)	熊敬华, 杨跃生 (67)
不同温度处理对草菇、真姬菇蛋白酶活性变化的影响	巫光宏, 詹福建, 钱春梅, 等 (71)
广东省自然保护区 DCA 排序与 UPGMA 聚类研究	贾小容, 苏志尧, 陈北光, 等 (75)
深圳莲花山公园景观植物物候特点及对公园景观的影响	许 涵, 王晓明, 崔大方 (80)

动物科学与兽医学

鸡、鹅肌肉生成抑制因子基因的克隆及序列分析	马现永, 施振旦, 曹永长, 等 (85)
口蹄疫病毒泛亚株全衣壳基因克隆和序列结构分析	田纯见, 曹永长, 毕英佐 (89)
催乳素和牛卵泡液对胚胎体外成熟及未成熟的牛卵母细胞的影响 (英文)	Abdul Rahman SESAY, 石德顺 (93)

农业工程与食品科学

等效交叉梁系宽度合理取法探讨	钟 南, 王祖华 (98)
超声场强化龙眼渗透脱水研究	张平安, 叶盛英, 李 雁, 等 (101)
鳙鱼鱼糜凝胶特性改良的研究	周爱梅, 曾庆孝, 刘 欣, 等 (104)
红茶饮料的提取工艺及其稳定性研究	吴雅红, 黎碧娜, 彭进平 (108)

基础科学

淀粉-丙烯酸钠高吸水树脂的辐射反相悬浮法制备与性能	辜英杰, 邹伟权, 闫世平, 等 (111)
邻菲咯啉-氨基酸铜 (II) 三元混配配合物的合成及表征	周晓华, 陈 实, 黄 鹤, 等 (115)

研究简报

花椰菜花球产量与其他主要性状的通径分析	刘厚诚, 关佩聪, 陈日远, 等 (118)
神经网络中的多维 MP 模型	钟谭卫 (121)

桑吸浆虫 <i>Contarinia</i> sp. 成虫触角扫描电镜观察	黄志君, 谭炳安, 陈新芳, 等 (123)
---	------------------------

第 3 期

农学

氮营养对菜心炭疽病抗性生理的影响

II. 氮营养对菜心炭疽病及膜脂过氧化作用的影响	陈晓燕, 杨 暹, 张璐璐 (1)
冷害对荔枝果皮膜脂过氧化和保护酶活性的影响	胡位荣, 张昭其, 季作 , 等 (6)
茉莉酸甲酯对贮藏花生种子黄曲霉抗性的影响	贺立红, 何红卫, 宾金华 (10)
漂浮栽培薹菜和水葫芦净化猪场污水的研究	林东教, 唐淑军, 何嘉文, 等 (14)
静止水培下扎米莲的生长及养分吸收动态	罗 健, 林东教, 廖敏虹, 等 (18)
广州岑村农用地土壤养分空间变异性研究	梁中龙, 甘海华, 戴 军, 等 (22)
车八岭国家级自然保护区空气负离子水平研究	张 璐, 杨加志, 曾曙才, 等 (26)
南洋楹优良种源/家系选择的研究	郑永光, 周小珍, 陈红跃, 等 (29)
深圳市乡土树种繁育研究	刘永金, 曾振平, 李文华 (34)
庐山野生观赏植物资源多样性研究	谢国文, 刘月秀 (39)

植物保护

广东省水稻纹枯病菌群体遗传结构	易润华, 梁承邨, 朱西儒, 等 (43)
无菌培养条件下不同碳素和 NH_4^+ 水平对刺线虫生活史的影响	罗大民, 王 博, 方文珍, 等 (48)
海芋凝集素对豆蚜的抗生作用研究	潘 科, 侯学文, 黄炳球 (51)
水稻细菌性基腐病菌侵染规律研究	刘琼光, 王振中 (55)
过氧化氢降解有机磷农药的研究	

III. 去除残留农药的研究	方剑锋, 曾鑫年, 杜利香, 等 (58)
银杏提取物对 3 种农业害虫的触杀活性	邓业成, 徐汉虹, 雷 玲 (61)
不同寄主植物对黄曲条跳甲的适合度及自然种群增长的影响	张茂新, 凌 冰, 梁广文 (64)
荔枝蒂蛀虫发生期的预测预报	冼继东, 梁广文, 曾 玲, 等 (67)
绿僵菌防治香蕉假茎象甲的使用技术	陆永跃, 梁广文 (70)

生物学

超声波对菜豆种子超氧化物歧化酶活性的影响	钱春梅, 谭兆赞, 李 云, 等 (73)
豇豆胰蛋白酶抑制剂基因转化花椰菜的研究	吕玲玲, 雷建军, 宋 明, 等 (78)
家蚕丝素固定化木瓜蛋白酶的研究	陈芳艳, 纪平雄 (83)
山茶科部分属种叶表皮形态学研究	张 浩, 庄雪影 (87)
我国石仙桃属植物的分布和开发利用	易绮斐, 邢福武, 陈红锋, 等 (94)
鸭卵清蛋白 5' 端调控区的克隆和序列分析	蔡 马 (98)

动物科学与兽医学

洛克沙肿对鲫鱼暴露胁迫的毒性效应	孙永学, 陈杖榴, 陈展飞, 等 (101)
鸡 γ 干扰素基因在毕赤酵母中的分泌表达	周庆丰, 毕英佐, 马静云, 等 (105)

食品科学

微波对苹果脆片干燥特性的影响	郑素霞, 李远志, 罗树灿, 等 (109)
----------------------	------------------------

基础科学

有限元技术在空调器管路振动分析及设计优化中的应用	赵文龙, 张增学, 李立斌 (112)
--------------------------------	---------------------

综述

禽流感与人类健康	曹永长, 毕英佐 (116)
----------------	----------------

研究简报

蜂密度和寄主卵密度对玉米螟赤眼蜂寄生效能的影响 (英文)	A·U·R SALJOQI, 何余容 (120)
类番茄茄与番茄属间杂种异源多倍体的诱导与鉴定	程玉瑾, 吴定华, 汪国平 (123)

第 4 期

农学·园艺学

水稻空间诱变突变品系主要农艺经济性状及稻瘟病抗性变异 王 慧, 陈志强, 杨祁云, 等(1)

28 个香蕉品种果实性状评估 陈厚彬, 李建国, 冯奇瑞, 等(6)

植物保护

转 PRSV 复制酶基因 T₂ 代番木瓜植株的抗病性测定 阮小蕾, 李华平, 周国辉(12)

油菜花瓣附生真菌区系及对核盘菌拮抗作用的研究 王维香, 文成敬(16)

13 种杀菌剂对草坪新月弯孢菌的毒力测定及应用分析 蒋家珍, 吴学民, 赵美琦, 等(20)

猪毛蒿精油光活化抑制稗草生长及作用机理 杨淑娟, 万树青, 蒋志胜, 等(23)

新抗生素万隆霉素对黄瓜疫病菌抑菌形态学研究 高向阳, 林碧润, 姚汝华, 等(27)

绿巨人褐腐病菌生物学特性和病组织结构变化的研究 伍慧雄, 王 健, 王 军, 等(30)

华南毛蕨挥发油对美洲斑潜蝇成虫的行为干扰作用 任立云, 曾 玲, 张茂新, 等(35)

3 种热带杂草挥发油干扰小菜蛾行为的研究 覃伟权, 张茂新, 凌 冰, 等(39)

温度对玉米螟赤眼蜂发育的影响(英文) A·U·R· SALJOQI, 何余容(43)

越北腹露蝗卵块空间格局的研究 陈 伟, 吴伟坚, 陈伟洲, 等(47)

椰树叶甲取食行为及取食为害量研究 周 荣, 曾 玲, 陆永跃, 等(50)

生物学

利用反义基因沉默策略构建水稻突变体库及突变体筛选 陈远玲, 张群宇, 简玉瑜, 等(53)

rRNA 基因间隔区序列用于亲缘关系密切的根瘤菌种群鉴定及系统发育分析 彭桂香, 陈文新, 谭志远(58)

广东省高州野生稻群体植株形态性状的聚类分析 王 净, 陈飞鹏, 涂佳才, 等(63)

低强度射频电磁场对大豆和香蕉光合细胞 Chla 荧光动力学过程的影响 宋 清, 习 岗, 杨初平, 等(67)

采自昆明的拟茎点霉新种及中国新记录种 马 莉, 向梅梅, 戚佩坤, 等(71)

林业科学

北江流域 14 种乡土阔叶树种苗期生长评价 苏志尧, 陈北光, 彭华贵, 等(74)

动物科学与兽医学

传染性囊病病毒结构蛋白 VP2 的融合表达 曹永长, 史泉城, 马静云, 等(78)

胸腺素 α₁ 对离体培养的鸡脾脏淋巴细胞分泌功能及基因表达的影响 陈黎龙, 束 刚, 朱晓彤, 等(82)

猪 α 干扰素的原核表达 谢海燕, 郭霄峰(86)

胡子鲇胚胎发育的观察 刘文生, 李 勇, 肖建光(89)

农业工程与食品科学

闭链二自由度平面五杆机构运动分析 严慕容(93)

小型摘穗收获机部件的试验研究 乔西铭, 张先锋, 朱中仕(98)

全站仪中间法高程测量及其精度探讨 刘惠明, 张 波, 陈俊林(102)

信息科学

基于非均匀 B 样条小波的服装纸样优化识别方法及应用 朱同林, 刘越畅, 柴丽芳, 等(107)

基础科学

复杂系统性能指标试验量的预报方法 金玲玲, 汪刘一, 黄 鹤(111)

一类带功能性捕食者-食饵系统解的渐近性 戴婉仪, 付一平(114)

研究简报

水稻感性和抗性品种甲醇提取物对褐飞虱的影响 杨 朗, 梁广文, 何 芬(118)

软化病感染家蚕的碱性磷酸酶活力测定及病理学研究 李文楚(120)

中华紫毛兜兰——紫毛兜兰与亨利兜兰之间的天然杂种(英文) 刘仲健, 陈心启(123)

JOURNAL OF SOUTH CHINA AGRICULTURAL UNIVERSITY
Vol. 25 CONTENTS

No. 1

Agricultural sciences

Anther culture characteristics of *japonica* rice Taichung 65 and its pollen sterile near-isogenic lines as well as their F₁
..... YAO Yan, LU Yong-gen, LIU Xiang-dong, et al(1)

Research of the experiment on the system of rice intensification LU Xiu-ming, HUANG Qing, LIU Jun, et al(5)

Effects of N-application rate on yield and quality of rice Liangyoupeijiu
..... WANG Xiu-qin, ZHANG Hong-cheng, XU Xun-jun, et al(9)

Biochemical characters of callus in different sugarcane genotypes TAN Zhong-wen, LIANG Ji-nan, TAN Zhi-yong, et al(14)

Effects of mowing, AM fungal inoculation and phosphorus application on growth of *Citrus sinensis* and *Stylosanthes gracilis*
in a rhizobox YAO Qing, ZHU Hong-hui, HU Zhi-qun, et al(18)

Effect of lignin from paper-making black liquor on the transformation and the bio-utilization of urea-N
..... PENG Jun-jie, WANG De-han, LIAO Zong-wen(21)

Relationship between N, P and K application and the growth of tomato seedling sowed in the sawdust-rich substrates
..... SUN Zhi-qiang, LI Sheng-li, ZHANG Yan-ling(25)

Effects of nutritive soil modifier activation and uptake on soil phosphorus by corn plants on acid soils
..... GUO He-rong, CHEN Qiong-xian, ZHENG Shao-ling, et al(29)

Evaluation of the genetic variation and fast-growth stability of loblolly pine family
..... SUN Xiao-xia, LIANG Yi-chi, RUAN Shao-ning(33)

Plant protection

Effect of *Eretmocerus* sp. and chemical insecticides on *Bemisia tabaci* (Gennaidus) in greenhouse
..... QIU Bao-li, REN Shun-xiang, WU Jian-hui, et al(37)

The influences of several common-used pesticides on *Bemisia tabaci* population
..... SHEN Bin-bin, REN Shun-xiang, WU Jian-hui, et al(40)

The degradation of organophosphorus pesticides by hydrogen peroxide
I. Characters and influencing factors of the degradation FANG Jian-feng, ZENG Xin-nian, XIONG Zhong-hua, et al(44)

The resistance to *Plasmopara viticola* and *Sphaceloma ampelinum* and their resistance relationship in *Vitis vinifera*
..... LIU Hui-ning, LI Cong-yu, WU Guang-yu(48)

Phenoxy-hydroxy-acid herbicides for controlling the weed *Mikania micrantha*
..... HUANG Hua-zhi, ZHAO Jing-bin, HUANG Bing-qiu, et al(52)

Composition of arthropods and population dynamics of main insect groups on *Pueraria lobata*
..... LI Jian-feng, TIAN Ming-yi, GU De-jiu, et al(56)

Structure and diversity of insect assembly in complex tea orchard
..... CHEN Yi-gen, XIONG Jin-jun, HUANG Ming-du, et al(59)

The spatial distribution of chestnut gall wasp and its sampling techniques in the chestnut plantation
..... LI Yi-zhen, YI Ye-hua, ZHENG Zhu-long, et al(62)

Biological sciences

Isolation of polymorphic DNA fragments between normal and cytoplasmic male sterility lines of rice using a modified RFLP
subtractive hybridization method ZHANG Qun-yu, LIU Yao-guang(66)

The induction of embryogenic callus and the establishment of embryogenic cell suspension of *Musa* spp.
..... XU Chun-xiang, B. PANIS, H. STROSSE, et al(70)

Effects of different treatments on yeast cell membrane permeability
..... LIU Xiao-yan, QIU Tai-qiu, HUANG Zhuo-lie(74)

The resource and conservation of rare and endangered plants in Ehuangzhang Nature Reserve, Guangdong Province
..... WANG Fa-guo, YE Hua-gu, YE Yu-shi(77)

Diversity of soil invertebrate assemblages in the forest of Shimentai Nature Reserve, Guangdong Province
..... LI Zhi-wei, TONG Xiao-li, ZHANG Wei-qiu, et al(80)

Notes on the genus *Stomis* Clairville in China and description of a new species from Yunnan Province
(Coleoptera, Carabidae, Pterostichinae) TIAN Ming-yi, PAN Yong-zhi(85)

Animal sciences & Veterinary medicine

Studies on newcastle disease antigen-antibody complex vaccine LI Yong-hong, BI Ying-zuo, CAO Yong-chang(88)

Cloning and expression of foot-and-mouth disease virus type O VP1 gene
..... LIN Rui-qing, LUO Man-lin, HUANG Yu-mao, et al(92)

Effect of different dosages of CpG motifs on immune responses in piglets
..... TIAN Xing-shan, ZHANG Ling-hua, KUANG Zhe-shi, et al(96)

Amplified and sequence analysis of the outer membrane protein A gene of avian *Escherichia coli* O₂, O₇₈
..... CAO Su-fang, HUANG Qing-yun, WEN Na-xiang, et al(99)

Agricultural engineering & Food sciences

Design and test on mechanism of electromagnetic vibrating type rice seeder for flat seedling
..... ZHENG Ding-ke, LI Zhi-wei, OU Ying-gang(103)

The effect of microbial strains on the isoflavone content of fermented soybean curd during the first fermentation period
..... LIU Xin, GONG Li, LIU Guan-fu, et al(107)

Basic sciences

Research on computing the value of the work procedure ability index C_p
..... GUO Zheng-guang, ZHANG Guo-quan, WEI Fu-yi(110)

Preparation and characterization of polyethylene glycol/montmorillonite intercalation composites
..... LU Qi-ming, YU Lin-liang, CHEN Min, et al(112)

Short communication

Ultrastructural study of the adenohypophysis pars tuberalis of the Beagle
..... LI Yu-gu, ZHANG Yuan, CHENG Shu-jun, et al(115)

Mitochondrion like-plasmid identification of a new male sterile cytoplasm WB in *Zea mays*
..... LI Xiao-qin, WAN Bang-hui, LIU Ji-lin, et al(118)

A supplement to the *Flora Reipublicae Popularis Sinicae* (volume 51, Violaceae) XING Fu-wu, QIN Xin-sheng(120)

Some newly recorded plants from Hainan Island of China (Ⅷ)
..... QIN Xin-sheng, YAN Yue-hong, CHEN Hong-feng, et al(122)

Triuridaceae —— a new record of the family from Guangdong Province, China
..... ZHUANG Xue-ying, PENG Yi-sheng, ZHANG Hao(124)

No.2

Agricultural sciences

Mathematic models for quantitative analysis of Brix and reducing sugars in sugarcane juice with Fourier transform near infrared
spectroscopy CAO Gan, TAN Zhong-wen, LIANG Ji-nan, et al(1)

Study on soil micro-organism community of sugarcane field under different mulch conditions
..... ZHENG Chao, TAN Zhong-wen, LIU Ke-xing, et al(5)

NAA sprays increased litchi fruit size and its roles LI Jian-guo, HUANG Xu-ming, HUANG Hui-bai(10)

A primary study on the growth of ball cactus in hydroponics LIN Dong-jiao, LUO Jian, LIU Shi-zhe, et al(13)

Approach the action of derivative spectra for determining agronomic parameters of cotton
..... WANG Xiu-zhen, LI Jian-long, TANG Yan-lin(17)

A study of spectral features of stands and their related factors with principal component analysis
..... LIN Wei-hua, YANG Yan-qiong, HOU Chang-mou(22)

Plant protection

The effects of nitrogen nutrition and inoculation with *Colletotrichum higginsianum* on anthracnose resistance physiology in

Flowering Chinese Cabbage

I. The effects of nitrogen nutrition on Anthracnose and cell protective enzymes in Flowering Chinese Cabbage

..... YANG Xian, CHEN Xiao-yan, FENG Hong-xian(26)

Phytophthora species infecting citrus in Guangdong Province CHENG Jia-zhuang, WEI Xiao-yan, FAN Huai-zhong(31)

Monitoring of the resistance of *Colletotrichum gloeosporioides* on mango anthracnose to the fungicide carbendazim

..... XU Da-gao, PAN Ru-qian, ZHENG Zhong, et al(34)

Degradation of organophosphorus pesticides by hydrogen peroxide

II. Degradation kinetics and toxicity FANG Jian-feng, ZENG Xin-nian, YU Fei, et al(37)

Effect of water content on the stability of azadirachtin TIAN Yong-qing, XU Han-hong, ZHANG Zhi-xiang(41)

Evaluation of control effect of several insecticides on *Liriomyza sativae* and its natural enemies

..... ZENG Ling, LIANG Guang-wen, WU Jia-jiao(44)

Interspecific association among dominant species groups of arthropods on *Pueraria lobata*

..... LI Jian-feng, TIAN Ming-yi, GU De-jiu, et al(48)

Studies on control of *Steinernema feltiae* to *Ostrinia furnacalis* HU Xue-nan, LIANG Guang-wen, ZENG Ling(52)

Effect of cold storage on mass-rearing population quality of *Trichogrammatoidea bactrae*

..... CHEN Ke-wei, LIU Li-zhuang, FANG Chu-ming, et al(56)

Controlling effect of *Campylomma chinensis* on *Aphis gossypii*

..... YU Jin-yong, WU Wei-jian, LIANG Guang-wen, et al(60)

Biological sciences

Plant regeneration through somatic embryogenesis of *Musa AAA* cv. Grande Naine

..... XU Chun-xiang, B. PANIS, H. STROSSE, et al(63)

The *in vitro* culture characteristics of ten selected rice (*Oryza sativa* L.) varieties XIONG Jing-hua, YANG Yue-sheng(67)

Effect of different temperature treatments on proteinase activities of *Volvarella volvacea* and *Pleurotus cornucopiae*

..... WU Guang-hong, ZHAN Fu-jian, QIAN Chun-mei, et al(71)

DCA ordination and UPGMA cluster analysis of nature reserves in Guangdong Province

..... JIA Xiao-rong, SU Zhi-yao, CHEN Bei-guang, et al(75)

Phenological characteristics of the main trees and their effects on the landscape features in Lianhuashan Park, Shenzhen

..... XU Han, WANG Xiao-ming, CUI Da-fang(80)

Animal sciences & Veterinary medicine

Cloning and sequencing analysis of myostatin gene of chicken and goose

..... MA Xian-yong, SHI Zhen-dan, CAO Yong-chang, et al(85)

The cloning and sequence analysis of the capsid gene(P1) of foot-and-mouth disease virus O/PanAsia

..... TIAN Chun-jian, CAO Yong-chang, BI Ying-zuo(89)

The effect of prolactin and bovine follicular fluid on the *in vitro* maturation and subsequent development of immature buffalo

(*Bubalus bubalis*) oocytes Abdul Rahman SESAY, SHI De-shun(93)

Agricultural engineering & Food sciences

Rational selection of equivalent cross beam system width ZHONG Nan, WANG Zu-hua(98)

Study on the osmotic dehydration of longan sarcocarp enhanced by ultrasound field

..... ZHANG Ping-an, YE Sheng-ying, LI Yan, et al(101)

Study on the improvement of gel properties of *Aristichthy nobilis* surimi

..... ZHOU Ai-mei, ZENG Qing-xiao, LIU Xin, et al(104)

Study on the preparation of black tea beverage WU Ya-hong, LI Bi-na, PENG Jiu-ping(108)

Basic sciences

The preparation of starch-sodium acrylate high water-absorption resin by radiation polymerization in inverse suspension system

and its properties GU Ying-jie, ZOU Wei-quan, YAN Shi-ping, et al(111)

Synthesis and characterization of copper (Ⅱ) ternary mixed-ligand complexes with 1, 10-phenanthroline and L-α-amino acid	ZHOU Xiao-hua, CHEN Shi, HUANG He, et al(115)
Short communication	
Path analysis of growth characters and curd yield in cauliflower	LIU Hou-cheng, GUAN Pei-cong, CHEN Ri-yuan, et al(118)
Multidimensional MP model in neural network	ZHONG Tan-wei(121)
The antennae microstructures of adults of <i>Contarinia</i> sp. under scanning electronic microscope	HUANG Zhi-jun, TAN Bin-an, CHEN Xin-fang, et al(123)

No.3

Agricultural sciences

Effects of nitrogen nutrition and inoculation with <i>Colletotrichum higginsianum</i> on anthracnose resistance physiology in Flowering Chinese Cabbage	
Ⅱ · The effects of nitrogen nutrition on anthracnose and membrane lipid peroxidation in Flowering Chinese Cabbage	CHEN Xiao-yan, YANG Xian, Zhang Lu-lu(1)
Effect of chilling injury on membrane lipid peroxidation and activities of cell defense enzyme in litchi pericarp	HU Wei-rong, ZHANG Zhao-qi, JI Zuo-liang, et al(6)
Effects of methyl jasmonate on the resistance of peanut seeds to <i>Aspergillus flavus</i>	HE Li-hong, HE Hong-wei, BIN Jin-hua(10)
Purification of piggery wastewater by <i>Ipomoea aquatica</i> and <i>Eichhornia crassipes</i> in a floating culture system	LIN Dong-jiao, TANG Shu-jun, HE Jia-wen, et al(14)
The growth and nutrients uptake of <i>Zamioculcas zamiifolia</i> in still hydroponics	LUO Jian, LIN Dong-jiao, LIAO Min-hong, et al(18)
Spatial variability analysis of soil nutrients in Guangzhou Cencun cropfield	LIANG Zhong-long, GAN Hai-hua, DAI Jun, et al(22)
Air anion concentrations in Chebaling National Nature Reserve	ZHANG Lu, YANG Jia-zhi, ZENG Shu-cai, et al(26)
Study on the selection of <i>Paraserianthes falcataria</i> seedlots/families	ZHENG Yong-guang, ZHOU Xiao-zhen, CHEN Hong-yue, et al(29)
Study on breeding of native trees in Shenzhen	LIU Yong-jin, ZENG Zhen-ping, LI Wen-hua(34)
Diversity of wild ornamental plant resource on Lushan mountain	XIE Guo-wen, LIU Yue-xiu(39)

Plant protection

Genetic structure of rice sheath blight fungi population in Guangdong Province	YI Run-hua, LIANG Cheng-ye, ZHU Xi-tu, et al(43)
Effect of different organic carbon and NH ₄ ⁺ levels on life cycle of <i>Belonolaimus longicaudatus</i> on excised corn root	LUO Da-min, WANG Bo, FANG Wen-zhen, et al(48)
Study on the anti-cowpea aphid action of a lectin from <i>Alocasia odora</i>	PAN Ke, HOU Xue-wen, HUANG Bing-qiu(51)
Infection characteristics of <i>Erwinia chrysanthemi</i> pv. <i>zeaeon</i> rice	LIU Qiong-guang, WANG Zhen-zhong(55)
Studies on the degradation of organophosphorus pesticides by hydrogen peroxide	
Ⅲ · Removal of residues on vegetables	FANG Jian-feng, ZENG Xin-nian, DU Li-xiang, et al(58)
Contact toxicity of extracts from leaf and exopleura of <i>Ginkgo biloba</i> to pest insects	DENG Ye-cheng, XU Han-hong, LEI Ling(61)
Effects of host plants on the fitness and the population dynamics of <i>Phyllotreta stiolata</i>	ZHANG Mao-xin, LING Bing, LIANG Guang-wen(64)
Forecast of the emergence period of <i>Conopomorpha sinensis</i> in litchi	XIAN Ji-dong, LIANG Guang-wen, ZENG Ling, et al(67)
Control effience of <i>Metarhizium anisopliae</i> on the banana pseudostem weevil (<i>Odoiporus longicollis</i>)	LU Yong-yue, LIANG Guang-wen(70)

Biological sciences

Effect of ultrasound on the activity of superoxide dismutase from kidney bean seeds	QIAN Chun-mei, TAN Zhao-zan, LI Yun, et al(73)
Transformation of cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i>) with cowpea trypsin inhibitor gene	LÜ Ling-ling, LEI Jian-jun, SONG Ming, et al(78)
Immobilization of papain and its application to silk peptide production	CHEN Fang-yan, JI Ping-xiong(83)
Study on leaf epidemics of some plants of Theaceae	ZHANG Hao, ZHUANG Xue-ying(87)
Distribution and utilization of <i>Pholidota</i> in China	YI Qi-fei, XING Fu-wu, CHEN Hong-feng, et al(94)
Cloning and sequence analyses of the 5' regulation regions of duck ovalbumine gene	CAI Ma(98)
Animal sciences & Veterinary medicine	
Toxic effects of roxarsone on <i>Carassias auratus</i>	SUN Yong-xue, CHEN Zhang-liu, CHEN Zhan-fei, et al(101)
Secretive expression of chicken interferon- γ gene in <i>Pichia pastoris</i>	ZHOU Qing-feng, BI Ying-zuo, MA Jing-yun, et al(105)
Food sciences	
Effect of microwave on the dehydration feature of apple crispy chips	ZHENG Su-xia, LI Yuan-zhi, LUO Shu-can, et al(109)
Basic sciences	
Application of the finite element technique on air-conditioner pipeline vibration analysis and optimization design	ZHAO Wen-long, ZHANG Zeng-xue, LI Li-bin(112)
Review	
Avian influenza and human health	CAO Yong-chang, BI Ying-zuo(116)
Short communication	
Effect of host and parasite density on <i>Trichogramma ostrinae</i>	A·U·R SALJOQI, HE Yu-rong(120)
Generation of allopolyploids <i>Lycopersicon Solanum lycopersicoides</i>	CHENG Yu-jin, WU Ding-hua, WANG Guo-ping(123)

No.4

Agronomy • Horticulture

Variation of major agronomic characters and resistance to blast of mutant lines by space mutation in <i>Oryza sativa</i>	WANG Hui, CHEN Zhi-qiang, YANG Qi-yun, et al(1)
Evaluation of fruit characteristics of twenty-eight Cavendish subgroup banana cultivars (<i>Musa</i> spp., AAA Group)	CHEN Hou-bin, LI Jian-guo, FENG Qi-rui, et al(6)

Plant protection

Evaluation of PRSV resistance of T ₂ transgenic papaya with replicase gene	RUAN Xiao-lei, LI Hua-ping, ZHOU Guo-hui(12)
Mycoflora analysis on rape flower and selection of antagonistic fungi to <i>Sclerotinia sclerotiorum</i>	WANG Wei-xiang, WEN Cheng-jing(16)
Toxicity and apply of 13 kinds of fungicides on <i>Curcularia lunata</i>	JIANG Jia-zhen, WU Xue-min, ZHAO Mei-qi, et al(20)
Activity of photodynamic inhibiting growth to weed and action mechanism of essential oil from <i>Artemisia scoparia</i>	YANG Shu-juan, WAN Shu-qing, JIANG Zhi-sheng, et al(23)
Study on the morphology of the inhibitant effects of the new antibiotics wanglongmycin on <i>Phytophthora melonis</i>	GAO Xiang-yang, LIN Bi-run, YAO Ru-hua, et al(27)
Study on biological and pathogenic characteristics of the brown rot of <i>Spathiphyllum pallas</i>	WU Hui-xiong, WANG Jian, WANG Jun, et al(30)
Deterrent effect of volatiles from <i>Cyclosorus parasiticus</i> on adult of <i>Liriomyza sativae</i>	REN Li-yun, ZENG Ling, ZHANG Mao-xin, et al(35)
Influence of three volatiles from tropical rank grasses on behavior of <i>Plutella xylostella</i>	QIN Wei-guan, ZHANG Mao-xin, LING Bing, et al(39)

Effect of temperature on the development of *Trichogramma ostrinae* (Hymenoptera: Trichogrammatidae) A·U·R· SALJOQI, HE Yu-rong(43)

Spatial distribution pattern of egg mass of *Fruhstorferiola tonkinensis* CHEN Wei, WU Wei-jian, CHEN Wei-zhou, et al(47)

Feeding behavior of *Brontispa longissima* ZHOU Rong, ZENG Ling, LU Yong-yue, et al(50)

Biological sciences

Generation of a rice mutant library by shotgun antisense gene silencing and mutant screening CHEN Yuan-ling, ZHANG Qun-yu, JIAN Yu-yu, et al(53)

Identification and phylogenetic analysis of closely related rhizobium species by rRNA gene intergenic spacer sequence PENG Gui-xiang, CHEN Wen-xin, TAN Zhi-yuan(58)

Cluster analysis of morphological traits of Gaozhou wild rice populations in Guangdong Province, China WANG Jing, CHEN Fei-peng, TU Jia-cai, et al(63)

Effect of low level radio frequency electromagnetic field on chlorophyll fluorescence dynamics process in photosynthesis cell of soybean and banana SONG Qing, XI Gang, YANG Chu-ping, et al(67)

New species and new records of *Phomopsis* from Kunming, China MA Li, XIANG Mei-mei, QI Pei-kun, et al(71)

Forestry sciences

Evaluation of the seedling growth of 14 broadleaved tree species indigenous to the Beijiang River valley SU Zhi-yao, CHEN Bei-guang, PENG Hua-gui, et al(74)

Animal sciences & Veterinary medicine

Fusion expression of viral structural protein VP2 of infectious bursal disease virus in *E· coli* CAO Yong-chang, SHI Quan-cheng, MA Jing-yun, et al(78)

Effects of thymosin α_1 on the secretory functions and gene expression of chicken splenic lymphocytes *in vitro* CHEN Li-long, SHU Gang, ZHU Xiao-tong, et al(82)

Construction of prokaryotic expression system for producing porcine IFN- α XIE Hai-yan, GUO Xiao-feng(86)

Observation on the embryonic development of *Clarias fuscus* LIU Wen-sheng, LI Yong, XIAO Jian-guang(89)

Agricultural engineering & Food sciences

Kinematics analysis for planar five-bar mechanism with dual freedoms YAN Mu-rong(93)

Experimental research on the components of minn-stripper harvester QIAO Xi-ming, ZHANG Xian-feng, ZHU Zhong-shi(98)

Investigation into the accuracy of total station elevation surveying using the midway method LIU Hui-ming, ZHANG Bo, CHEN Jun-lin(102)

Information sciences

Garment pattern optimized identification based on non-uniform B-spline wavelet and its application ZHU Tong-lin, LIU Yue-chang, CHAI Li-fang, et al(107)

Basic sciences

A new estimation method of throughput of experimentation in testing complicated systems JIN Ling-ling, WANG Liu-yi, HUANG He(111)

Asymptotic behavior of solution for a functionality predator-prey system DAI Wan-yi, FU Yi-ping(114)

Short communication

Effect of methanolic extracts from susceptible and resistant rice varieties on *Nilaparvata lugens* (stål) (Homoptera: Delphacidae) YANG Lang, LIANG Guang-wen, HE Lang-fen(118)

Studies on the activities of alkaline phosphatase and pathology of *Bombyx mori* infected with flacherie LI Wen-chu(120)

Paphiopedilum $\times$ *sinovillosum*, a natural hybrid of *Paphiopedilum villosum* and *P· henryanum* LIU Zhong-jian, CHEN Xin-qi (CHEN Sing-chi)(123)