



中国科技核心期刊
全国优秀农业期刊

ISSN 2095-4050

CN 11-6016/S

農學學報

NONGXUE XUEBAO

JOURNAL OF AGRICULTURE

第八卷 第一期



中国农学会 主办

Sponsored by the China Association of
Agricultural Science Societies

协办单位

中国农业大学
西北农林科技大学
河北农业大学
中国热带农业科学院

南京农业大学
华中农业大学
中国水产科学研究院

1
2018
第8卷 第1期



杂志手机、pad(Android)版



万方数据

目次 Contents

农业科技与创新篇

- 面向乡村振兴新要求 开创农业科技新局面····· 张桃林(1)
Turning a New Page in Agricultural Science and Technology in Face of Needs in Rural Vitalization
····· Zhang Taolin(1)

农业学科发展篇

- 作物种质资源研究回顾与发展趋势····· 刘旭,李立会,黎裕,方洵(10)
Crop Germplasm Resources: Advances and Trends····· Liu Xu, Li Lihui, Li Yu, Fang Wei(10)
- 植物生理学回顾与展望····· 陈晓亚,何祖华,樊培,冷冰(16)
Development and Prospects of Plant Physiology····· Chen Xiaoya, He Zuhua, Fan Pei, Leng Bing(16)
- 中国蔬菜育种科学技术的发展与展望····· 方智远(21)
Development Progress and Future Perspectives of Vegetable Breeding Sciences and Technologies in China
····· Fang Zhiyuan(21)
- 渔业科学知识体系和中国特色的渔业发展之路····· 唐启升(28)
Fisheries Science Knowledge System and Characteristic China Approach for Fisheries Development
····· Tang Qisheng(28)
- 果树学科百年发展回顾
····· 邓秀新,束怀瑞,郝玉金,徐强,韩明玉,张绍铃,段常青,姜全,易干军,陈厚彬(33)
Review on the Centennial Development of Pomology in China
····· Deng Xiuxin, Shu Huairui, Hao Yujin, Xu Qiang, Han Mingyu, Zhang Shaoling, Duan Changqing, et al(33)
- 中国农作物病虫害防控科技的发展方向····· 吴孔明(44)
Development Direction of Crop Pest Control Science and Technology in China····· Wu Kongming(44)
- 植物营养学科发展报告····· 袁力行,申建波,崔振岭,张福锁(48)
Advances and Prospects of Plant Nutrition····· Yuan Lixing, Shen Jianbo, Cui Zhenling, Zhang Fusuo(48)
- 土壤学发展历程、研究现状与展望····· 沈仁芳(53)
Development, Status and Prospect of Soil Science····· Shen Renfang(53)

作物栽培与耕作学科发展	陈 阜, 赵 明(59)
Developments of the Crop Cultivation and Farming System in China	Chen Fu, Zhao Ming(59)
动物遗传育种学科百年发展历程与研究前沿	杨 宁, 姜 力(64)
The Centennial Development History and Research Frontiers of Animal Genetics and Breeding	Yang Ning, Jiang Li(64)
农业气象学发展现状及展望	梅旭荣(70)
The Progress and Prtospect of Agrometeorology	Mei Xurong(70)
中国现代草业科学的发展及未来	王 堃(76)
Development and Future of Modern Grass Science in China	Wang Kun(76)

农业产业发展篇

超级杂交稻研究进展	袁隆平(80)
Progress in Breeding of Super Hybrid Rice	Yuan Longping(80)
百年玉米, 再铸辉煌	戴景瑞, 鄂立柱(83)
From the Past Centennial Progress to More Brilliant Achievements in the Future	Dai Jingrui, E Lizhu(83)
新时代中国茶产业的创新与发展	陈宗懋(89)
Innovation and Development of China Tea Industry in New Era	Chen Zongmao(89)
中国棉花产业百年发展历程	喻树迅(93)
The Development of Cotton Production in the Recent Hundred Years of China	Yu Shuxun(93)
水稻科技与产业发展	方福平, 程式华(100)
The Development of Rice Science, Technology and Industry in China	Fang Fuping, Cheng Shihua(100)
中国小麦产业发展与科技进步	何中虎, 庄巧生, 程顺和, 于振文, 赵振东, 刘 旭(107)
Wheat Production and Technology Improvement in China	He Zhonghu, Zhuang Qiaosheng, Cheng Shunhe, Yu Zhenwen, Zhao Zhendong, Liu Xu(107)
中国油料作物产业发展回顾与展望	廖伯寿, 殷 艳, 马 霓(115)
Review and Future Prospects of Oil Crops Industry Development in China	Liao Boshou, Yin Yan, Ma Ni(115)

- 新时期中国热带农业科技的新使命 王庆煌(121)
The New Mission of Tropical Agricultural Science and Technology in the New Era Wang Qinghuang(121)
- 灵芝三萜液态深层发酵的研究进展 翟双星,冯 杰,冯 娜,唐庆九,周 帅,杨 焱,刘艳芳,张劲松(126)
Research Progress on *Ganoderma* triterpenes Obtained by Liquid Submerged Fermentation
..... Zhai Shuangxing, Feng Jie, Feng Na, Tang Qingjiu, Zhou Shuai, Yang Yan, Liu Yanfang, Zhang Jingsong(126)
- 中国食品工业发展回顾与展望 戴小枫,张德权,武 桐,张 泓,孟 哲,田 帅,张辛欣,杨晓慧(133)
Historical Review and Future Prospect of China's Food Industry Development
... Dai Xiaofeng, Zhang Dequan, Wu Tong, Zhang Hong, Meng Zhe, Tian Shuai, Zhang Xinxin, Yang Xiaohui(133)
- 中国葡萄产业与科技发展 田淑芬(143)
The Development of Grape Industry and Technology in China Tian Shufen(143)
- 中国特种经济动物养殖产业发展综述 李光玉,鲍 坤,张 旭,司方方,焉 石(148)
Review on the Development of Special Economic Animal Breeding Industry in China
..... Li Guangyu, Bao Kun, Zhang Xu, Si Fangfang, Yan Shi(148)

新兴及交叉学科发展篇

- 中国生态农业的回顾与展望 李文华(153)
Review and Perspectives of China's Ecological Agriculture Li Wenhua(153)
- 从零基础到农机大国的发展之路 陈 志,罗锡文,王锋德,肖俊华(158)
Road of Development From Zero Base to a Large Agricultural Machinery Country
..... Chen Zhi, Luo Xiwen, Wang Fengde, Xiao Junhua(158)
- 农业绿色高效节水研究现状与未来发展趋势 陆红娜,康绍忠,杜太生,佟 玲,丁日升,李思恩(163)
Current Status and Future Research Trend on Water-saving High-efficiency and Eco-friendly Agriculture
..... Lu Hongna, Kang Shaozhong, Du Taisheng, Tong Ling, Ding Risheng, Li Si'en(163)
- 畜禽养殖废弃物资源化利用与现代生态养殖模式 吴 信,万 丹,印遇龙(171)
Modern Ecological Breeding Mode and Resource Utilization of Livestock Wastes
..... Wu Xin, Wan Dan, Yin Yulong(171)
- 农业遥感研究进展与展望 唐华俊(175)
Progress and Prospect of Agricultural Remote Sensing Research Tang Huajun(175)

- 中国农业信息技术发展回顾及展望 赵春江, 杨信廷, 李 斌, 李 明, 闫 华(180)
 The Retrospect and Prospect of Agricultural Information Technology in China
 Zhao Chunjiang, Yang Xinting, Li Bing, Li Ming, Yan Hua(180)
- 中国畜牧业的“动物福利” 包 军(187)
 “Animal Welfare” of Livestock Husbandry in China Bao Jun(187)
- 中国粮食安全百年变化历程 成升魁, 徐增让, 谢高地, 甄 霖, 王灵恩, 郭金花, 侯 鹏, 何中虎(194)
 The History of China's Food Security in the Past Hundred Years
 ... Cheng Shengkui, Xu Zengrang, Xie Gaodi, Zhen Lin, Wang Ling'en, Guo Jinhua, Hou Peng, He Zhonghu(194)
- 中国有机农业发展与展望 吴文良, 乔玉辉(201)
 Status and Development Perspectives of Organic Agriculture in China Wu Wenliang, Qiao Yuhui(201)
- 中国农业监测预警的研究进展与展望 许世卫(205)
 Review on Research in Agricultural Monitoring and Early Warning in China Xu Shiwei(205)
- 中国农产品质量安全现状与技术发展趋势 钱永忠, 金 芬, 郑床木(211)
 Progress and Trend on Technique of Agro-products Quality and Safety in China
 Qian Yongzhong, Jin Fen, Zheng Chuangmu(211)
- 农业4.0——即将到来的智能农业时代 李道亮(215)
 Agriculture 4.0, the Approaching Age of Intelligent Agriculture Li Daoliang(215)
- 都市农业与休闲农业 周 培(223)
 Urban Agriculture and Leisure Agriculture Zhou Pei(223)
- 中国的重要农业文化遗产保护与发展研究进展 闵庆文, 张碧天(229)
 Review on Conservation and Development Study of Important Agricultural Heritage System in China
 Min Qingwen, Zhang Bitian(229)

