

植物营养与肥料学报
Zhiwu Yingyang Yu Feiliao Xuebao
第 21 卷 第 6 期

长期施肥的耕地质量现状与未来
—2015 年国际土壤年专刊

目 次

1381 国内外耕地培育的差异与思考	白由路
1389 我国典型农田长期施肥土壤肥力变化与研究展望	张淑香 张文菊 沈仁芳 徐明岗
1394 长期施肥下我国水稻土基础地力变化趋势	李忠芳 张水清 李慧 张会民 逢焕成 娄翼来 徐明岗
1403 嫩土区长期施肥农田土壤的可持续性评价	孙本华 孙瑞郭 芸皮小敏 杨学云
1413 长期不同施肥下嫩土有机碳和全氮在团聚体中的分布	张树兰 高明霞 谢钧宇 杨文静 强久次仁 薛文 李婧 张树兰 杨学云
1423 不同覆盖材料及旱作方式土壤团聚体和有机碳含量的变化	付鑫 王俊 刘全金 李蓉蓉
1431 长期施肥土壤不同粒径颗粒的固碳效率	蔡岸冬 张文菊 申小冉 肖婧 韩天富 徐明岗
1439 长期种植绿肥稻田土壤颗粒有机碳演变特征	刘立生 徐明岗 张璐 文石林 高莉生 董春华
1447 不同施肥模式对南方黄泥田耕层有机碳固存及生产力的影响	王飞 李清华 林诚 钟少杰 何春梅 刘玉洁
1455 长期保护性耕作对土壤有机碳和玉米产量及水分利用的影响	王碧胜 蔡典雄 武雪萍 李景梁 国鹏 于维水 王相玲 杨毅宇 王小彬
1465 长期不同施肥模式下华北旱作潮土有机碳的平衡特征	高伟 杨军 任顺荣
1473 长期施肥紫色水稻土团聚体稳定性及其固碳特征	樊红柱 秦鱼生 陈庆瑞 陈琨 涂仕华
1481 长期有机无机肥配施增强黄壤性水稻土有机氮的物理保护作用	张丽敏 徐明岗 娄翼来 王小利 段建军 李渝 蒋太明 段英华
1487 长期施肥下黄土旱塬黑垆土供氮能力的变化	王淑英 樊廷录 丁宁平 周广业 李利利 赵刚 张建军
1496 我国典型农田长期施肥的氮肥真实利用率及其演变特征	史天昊 段英华 王小利 徐明岗 黄绍敏 石孝均
1506 长期培肥我国典型黑土玉米氮肥效应的演变趋势	李慧 徐明岗 朱平 张文菊 张会民 李忠芳
1514 长期不同施肥下潮土磷素的演变特征	信秀丽 钱绳武 张佳宝 朱安宁 张丛志
1521 长期不同施肥模式红壤性水稻土磷素变化	叶会财 李大明 黄庆海 柳开楼 余喜初 徐小林 周利军 胡惠文 王赛莲
1529 长期施肥褐土有效磷对磷盈亏的响应	杨振兴 周怀平 解文艳 关春林 车丽
1536 长期施肥对黑土磷和锌形态转化的影响	陆欣春 邹文秀 韩晓增 郝翔江 江恒
1543 长期施肥红壤钾有效性研究	岳龙凯 蔡泽江 徐明岗 王伯仁 李冬初 黄晶 张会民
1551 长期施肥红壤钾素在有机无机复合体中的分布	岳龙凯 蔡泽江 徐明岗 王伯仁 黄庆海 李冬初 柳开楼 李建军 张会民
1563 长期施肥砂姜黑土微生物学特征差异及评价	陈欢 曹承富 张存岭 李玮 乔玉强 赵竹 杜世州 张向前
1572 长期施用化肥对嫩土微生物多样性的影响	高明霞 孙瑞 崔全红 杨学云 张树兰 孙本华
1581 30 年不同设施条件和栽培方式下土壤养分和微生物群落功能多样性的变化	张雪艳 田蕾 吴萍 高艳明 李建设
1590 长期不同施肥黑土细菌和古菌群落结构及主效影响因子分析	秦杰 姜昕 周晶 马鸣超 关大伟 周宝库 赵百锁 杜秉海 李俊
1599 长期施肥对黄泥田土壤微生物群落结构及团聚体组分特征的影响	李清华 王飞 林诚 何春梅 李昱 钟少杰 林新坚
1607 长期施肥对氨氧化古菌丰度及群落结构的影响	方宇 景晓明 王飞 陈济琛 林诚 林新坚
1615 长期施肥下我国南方典型农田土壤的酸化特征	周晓阳 徐明岗 周世伟 Colinet Gilles
1622 长期不同施肥对壤土团聚体胶结剂的影响	薛彦飞 薛文 张树兰 杨学云
1633 生物炭及炭基肥改良棕壤理化性状及提高花生产量的作用	战秀梅 彭靖 王月 刘轶飞 陈坤 韩晓日 王恒飞 蔺文成 李喜研
1642 滴灌氮肥用量对设施菜地硝态氮含量及环境质量的影响	李若楠 武雪萍 张彦才 王丽英 李孝兰 陈丽莉 翟凤芝
1652 长期定位施肥紫色土无机硫形态变化	钟海夫 张思兰 郭涛 石孝均

JOURNAL OF PLANT NUTRITION AND FERTILIZER

Vol 21 No .6

Farmland Quality After Long-term Fertilization —Special Issue For 2015 International Soil Year

CONTENTS

- 1381 Overview of rural land nurtures in China and abroad
1389 Variation of soil quality in typical farmlands in China under long-term fertilization and research expedition
- 1394 Trends of basic soil productivity in paddy soil under long-term fertilization in China
- 1403 Evaluation on the sustainability of cropland under different long-term fertilization in Eum-Orthic Anthrosols area
- 1413 Distribution of soil organic carbon and nitrogen in water-stable aggregates of manurial loess soils under long-term various fertilization regimes
- 1423 Soil aggregate and organic carbon contents with different surface mulching under dryland farming system
- 1431 Soil carbon sequestration efficiency of different particle-size fractions after long-term fertilization
- 1439 Evolution characteristics of soil particulate organic carbon in the paddy field with long-term planting green manure
- 1447 Effect of different fertilization modes on topsoil organic carbon sequestration and productivity in yellow paddy field of southern China
- 1455 Effects of long-term conservation tillage on soil organic carbon , maize yield and water utilization
- 1465 Balance characteristics of soil organic carbon under different long-term fertilization models in the upland fluvo-aquic soil of North China
- 1473 Distribution and stability of soil aggregates and carbon sequestration in purple paddy soil under long-term fertilization
- 1481 Combined application of chemical and organic fertilizers long-term increase physical protection of organic nitrogen in yellow paddy soil
- 1487 Changes of soil nitrogen supply in black loessial in Loess Plateau under long-term fertilization
- 1496 Real nitrogen use efficiency of crop as affected by long-term fertilization in typical soils of China
- 1506 Change of nitrogen use efficiency of maize affected by long-term manure fertilization in the typical black soil
- 1514 Dynamics of phosphorus in Fluvo-aquic soil under long-term fertilization
- 1521 Variation of soil phosphorus under long-term fertilization in red paddy soil
- BAI You-lu
ZHANG Shu-xiang ZHANG Wen-ju SHEN Ren-fang
XU Ming-gang
LI Zhong-fang ZHANG Shui-qing LI Hui
ZHANG Hui-min PANG Huan-cheng LOU Yi-lai
XU Ming-gang
SUN Ben-hua SUN Rui GUO Yun PI Xiao-min
YANG Xue-yun ZHANG Shu-lan GAO Ming-xia
XIE Jun-yu YANG Wen-jing QIANG-JIU Ci-ren
XUE Wen
LI Jie ZHANG Shu-lan YANG Xue-yun
FU Xin WANG Jun LIU Quan-quan LI Rong-rong
- CAI An-dong ZHANG Wen-ju SHEN Xiao-ran
XIAO Jing HAN Tian-fu XU Ming-gang
LIU Li-sheng XU Ming-gang ZHANG Lu WEN Shi-lin
GAO Ju-sheng DONG Chun-hua
WANG Fei LI Qing-hua LIN Cheng ZHONG Shao-jie
HE Chun-mei LIU Yu-jie
WANG Bi-sheng CAI Dian-xiong WU Xue-ping
LI Jing
LIANG Guo-peng YU Wei-shui WANG Xiang-ling
YANG Yi-yu WANG Xiao-bin
GAO Wei YANG Jun REN Shun-rong
- FAN Hong-zhu QIN Yu-sheng CHEN Qing-rui
CHEN Kun TU Shi-hua
ZHANG Li-min XU Ming-gang LOU Yi-lai
WANG Xiao-li DUAN Jian-jun LI Yu JIANG Tai-ming
DUAN Ying-hua
WANG Shu-ying FAN Ting-lu DING Ning-ping
ZHOU Guang-ye LI Li-li ZHAO Gang ZHANG Jian-jun
- SHI Tian-hao DUAN Ying-hua WANG Xiao-li
XU Ming-gang HUANG Shao-min SHI Xiao-jun
LI Hui XU Ming-gang ZHU Ping ZHANG Wen-ju
ZHANG Hui-min LI Zhong-fang
XIN Xiu-li QIN Sheng-wu ZHANG Jia-bao
ZHU An-ning ZHANG Cong-zhi
YE Hui-cai LI Da-ming HUANG Qing-hai LIU Kai-lou
YU Xi-chu XU Xiao-lin ZHOU Li-jun HU Hui-wen
WANG Sai-lian

- 1531 Response of Olsen-P to P balance in cinnamon soil under long-term fertilization YANG Zhen-xing ZHOU Huai-ping XIE Wen-yan
GUAN Chun-lin CHE Li
- 1536 Effect of long term fertilization on phosphorus and zinc fractions in a Mollisol LU Xin-chun ZOU Wen-xiu HAN Xiao-zeng
HAO Xiang-xiang JIANG Heng
- 1543 Potassium availability in red soil under long-term fertilization YUE Long-kai CAI Ze-jiang XU Ming-gang
WANG Bo-ren LI Dong-chu HUANG Jing
ZHANG Hui-min
- 1551 Distribution of potassium in the organo-mineral complexes of red soils under long-term fertilization YUE Long-kai CAI Ze-jiang XU Ming-gang
WANG Bo-ren HUANG Qing-hai LI Dong-chu
LIU Kai-lou LI Jian-jun ZHANG Hui-min
- 1563 Difference and assessment in microbial characteristics of lime concretion black soil affected by long-term fertilization CHEN Huan CAO Cheng-fu ZHANG Cun-ling
LI Wei
QIAO Yu-qiang ZHAO Zhu DU Shi-zhou
ZHANG Xiang-qian
- 1572 Effect of long-term chemical fertilizer application on soil microbial diversity in anthropogenic loess soil GAO Ming-xia SUN Rui Cui Quan-hong
- 1581 Changes of soil nutrients and microbial community diversity in responses to different growth environments and cultivation practices in 30 years YANG Xue-yun ZHANG Shu-lan SUN Ben-hua
ZHANG Xue-yan TIAN Lei WU Ping GAO Yan-ming
LI Jian-she
- 1590 Characteristics and driving factors of soil bacterial and archaeal communities under long-term fertilization regimes in black soil QIN Jie JIANG Xin ZHOU Jing MA Ming-chao
GUAN Da-wei ZHOU Bao-ku ZHAO Bai-suo
DU Bing-hai LI Jun
- 1599 Effects of long-term fertilization on soil microbial community structure and aggregate composition in yellow clayey paddy field LI Qing-hua WANG Fei LIN Cheng HE Chun-mei
LI Yu ZHONG Shao-jie LIN Xin-jian
- 1607 Effect of long-term fertilization on abundance and community structure of ammonia-oxidizing archaea in paddy soil FANG Yu JING Xiao-ming WANG Fei CHEN
Ji-chen
LIN Cheng LIN Xin-jian
- 1615 Soil acidification characteristics in southern China's croplands under long-term fertilization ZHOU Xiao-ying XU Ming-gang ZHOU Shi-wei
Colinet Gilles
- 1622 Effects of long-term fertilization regimes on changes of aggregate cementing agent of Lou Soil XUE Yan-fei XUE Wen ZHANG Shu-lan
YANG Xue-yun
- 1633 Influences of application of biochar and biochar-based fertilizer on brown soil physicochemical properties and peanut yields ZHAN Xiu-mei PENG Jing WANG Yue LIU Yi-fei
CHEN Kun HAN Xiao-ri WANG Heng-fei
LIN Wen-cheng LI Xi-yan
- 1642 Nitrate nitrogen contents and quality of greenhouse soil applied with different N rates under drip irrigation LI Ruo-nan WU Xue-ping ZHANG Yan-cai
WANG Li-ying LI Xiao-lan CHEN Li-li ZHAI Feng-Zhi
- 1652 Variation of inorganic sulfur forms under long-term fertilization in purple soil ZHONG Hai-fu ZHANG Si-lan GUO Tao SHI Xiao-jun