

ISSN 0564 - 3945

CN 21-1172/S

土壤通报

CHINESE JOURNAL OF SOIL SCIENCE

第 46 卷 第 6 期 Vol.46 No.6

2015

ISSN 0564-3945



9 770564 394150

中国土壤学会 主办



科学出版社

出版

土 壤 通 报

(Turang Tongbao)

第 46 卷 第 6 期 2015 年 12 月

目 次

研究报告

- “北土南运”的设想 董秀茹,刘小庆,王秋兵(1281)
- Landsat 8 卫星 OLI 影像水体信息的自动提取研究 方 刚(1284)
- 地貌和样点数对耕地土壤有机质插值精度的影响 张伟畅,周 清,冯 旂,吴婷华,谢红霞,张杨珠(1289)
- 甘肃省耕地集约利用空间分析 于丹丹,刘淑英,王 平,俞凤玺,王 坤(1299)
- 基于 ArcGIS 的表层土壤元素空间插值与地球化学分级分析
..... 王大鹏,于成广,宋淑娥,李华蕾,孙福军(1307)
- 基于 HJ-1A 超光谱影像的县域尺度耕地土壤速效磷含量遥感制图研究
..... 王 磊,顾晓鹤,王宝山,王延仓,陈艳玲,高 林(1314)
- 基于生态安全的土地利用结构优化研究 王观湧,张 乐,于化龙,陈青峰,陈亚恒(1321)
- 于田绿洲盐渍土主要参数的空间异质性分析
..... 胡佳楠,塔西甫拉提·特依拜,宋 玉,张 飞,买买提·沙吾提(1328)
- 县域耕地资源价值综合评价及动态分析——以河北省黄骅市为例
..... 李恒哲,郭年冬,陈召亚,李 超,陈亚恒,许 峰(1334)
- 有机碳含量对黑土区水稻土有机碳短期分解行为的影响
..... 张玉玲,蒙冠霖,虞 娜,邹洪涛,范庆锋,张玉龙(1341)
- 有机物料对黑土氮素转化的影响 郎 漫,李 平,王丹丹,李煜姗(1347)
- 石河子垦区农田土壤有机质和全氮空间分布特征研究
..... 许文霞,翟 勇,黄 婷,史力超,冶 军,侯振安(1352)
- 农田利用方式对土壤可溶性氮素含量及迁移的影响
..... 孔祥忠,于红梅,束良佐,宋 强,刘 涛(1359)
- 辽西北风沙半干旱区垄膜沟播处理对土壤氮、磷吸附/解吸特性的影响研究
..... 冯 晨,郑家明,冯良山,白 伟,王鹏飞,于秀捷,王宝荣,孙占祥(1366)
- 云南大理红大产区土壤理化性状与烟叶质量的关系 许东亚,焦恒哲,孙军伟,徐发华,史宏志(1373)
- 子午岭植被自然恢复过程中土壤颗粒分形特征 姚小萌,王凯博,周正朝,党珍珍(1380)
- 土壤重金属在优先流区和基质流区迁移能力研究
..... 张英虎,汤崇军,郑海金,郑太辉,张 杰,Richards Brian K(1386)
- 重庆合川区退耕还林地土壤改良效应研究
..... 何 艳,孙保平,肖恩邦,刘 洋,张建锋(1392)
- 分层供水施磷对冬小麦光合性能及产量的影响 马政华,寇长林,康利允(1399)
- 灌溉与深松对夏玉米根区土壤微生物数量的影响 张明智,牛文全,李康勇,李 元(1407)
- 土壤中多种拟除虫菊酯类农药残留的提取与检测方法
..... 梁茹晶,宋雪英,崔小维,李嘉康,罗 庆,李玉双,宋 晗(1415)
- 黑土长期定位试验原状土搬迁对土壤细菌群落多样性的影响
..... 迟凤琴,刘晶鑫,匡恩俊,张久明,宿庆瑞,周宝库(1420)
- 土壤氨氧化古菌及其可能代谢类型 李景云,李秀玲,葛 鹏,刘灵芝(1428)
- 黄河三角洲盐生植被演替与土壤细菌群落结构的关系 张 玥,金建玲,王晓凤,姜爱霞,郭笃发(1435)
- 旅游踩踏对五台山北台山地草甸土酶活性的影响 段青倩,樊文华,吴艳军,武智晖,刘霞霞,王 坤(1441)

植被类型对滨海湿地土壤酶活性的影响研究 黄利东,汪丽军,王 月(1447)

不同施肥措施对小麦年际间产量构成的影响 聂胜委,张水清,张巧萍,宝德俊,黄绍敏,何 宁(1453)

有机肥替代部分化肥对马铃薯根际土壤微生物群落功能多样性的影响
..... 程万莉,刘 星,高怡安,张文明,王 蒂,邱慧珍,沈其荣(1459)

不同有机肥对土地整理后烟田的培肥效果 ... 廖超林,黄 渤,张鹏博,盛 浩,于庆涛,邹 凯,张杨珠(1466)

利用沼肥培育新增耕地地力的研究 张 莉,鲍陈燕,章明奎(1472)

施肥对寒富苹果养分累积及产量贡献的影响 洪广慧,姜荧荧,贾 垚,谭雾淞,刘秀英,贾树海(1478)

供氮水平对冬马铃薯氮肥利用效率及氮素去向的影响
..... 韦剑锋,韦巧云,梁振华,宋书会,韦冬萍,梁 和(1483)

硅、磷配施对玉米氮钾养分吸收利用的影响 ... 朱从桦,谢孟林,郭 萍,张嘉莉,查 丽,孔凡磊,袁继超(1489)

厌氧还原土壤灭菌对设施蔬菜地连作障碍土壤性质的影响 周开胜(1497)

专题综述

稀土农用对植物亚细胞结构的生物效应 张轩波,王丽红,周 青(1503)

洞庭湖区土壤重金属污染现状及防治对策 易凌霄,曾清如(1509)

磷基材料钝化土壤铅及其影响因素研究进展
..... 袁志辉,刘敏超,陈志良,方晓航,黄 玲,钟松雄,苏耀明(1514)

青藏高原土壤水分研究进展 朱绪超,邵明安(1523)

不同种植模式粮田土壤氮素淋失的研究进展 马心灵,朱启林,赵胜利,龙光强,汤 利(1529)

CHINESE JOURNAL OF SOIL SCIENCE

Vol.46 No.6 Dec., 2015

CONTENTS

Research Articles

- The idea of "transfer soil from the north to the south" DONG Xiu-ru, LIU Xiao-qing, WANG Qiu-bing (1281)
- Automatic Extraction of Water Body Information Based on Landsat 8 Satellite OLI Image FANG Gang (1284)
- Effect of geomorphologic landscape and sampling numbers on the interpolation precision of cultivated land topsoil organic matter ZHANG Wei-chang, ZHOU Qing, FENG Yi, WU Ting-hua, XIE Hong-xia, ZHANG Yang-zhu (1289)
- Spatial Analysis of Cultivated Land Intensive Utilization in Gansu Province YU Dan-dan, LIU Shu-ying, WANG Ping, YU Feng-xi, WANG Kun (1299)
- The Comparative Analysis of Surface soil Elements and its Geochemical Grade use Interpolation and Measured data based on ArcGIS WANG Da-peng, YU Cheng-guang, SONG Shu-e, LI Hua-lei, SUN Fu-jun (1307)
- Study on County-wide Cultivated Soil Available Phosphorous Content Remote Sensing Mapping Based on HJ-1A HSI WANG Lei, GU Xiao-he, WANG Bao-shan, WANG Yan-cang, CHEN Yan-ling, GAO Lin (1314)
- Research on Optimization of Land Use Structure in BaoDing Urban Agglomeration Based on Ecological Security WANG Guan-yong, ZHANG Le, YU Hua-Long, CHEN Qing-feng, CHEN Ya-heng (1321)
- Spatial heterogeneity of key parameters of salinized soil in Yutian oasis HU Jia-nan, TASHPOLAT Tiyip, SONG Yu, ZHANG Fei, MAMAT Sawut (1328)
- Evaluation and Dynamic Analysis of County Cultivated Land Resource Value: A Case Study in Huanghua County LI Heng-zhe, GUO Nian-dong, CHEN Zhao-ya, LI Chao, CHEN Ya-heng, XU Hao (1334)
- Effect of Organic Carbon Content on Short-term Carbon Decomposition Characteristics of Paddy Soils in Black Soil Area ... ZHANG Yu-ling, MENG Guan-lin, YU Na, ZOU Hong-tao, FAN Qing-feng, ZHANG Yu-long (1341)
- Effect of Organic Materials on Nitrogen Transformation in Black Soil LANG Man, LI Ping, WANG Dan-dan, LI Yu-shan (1347)
- Spatial Distribution of Soil Organic Matter and Total Nitrogen in Farmland in Shihezi Agricultural Areas XU Wen-xia, ZHAI Yong, HUANG Ting, SHI Li-chao, YE Jun, Hou Zhen-an (1352)
- Impact of Land Use on the Content and Migration Pattern of Soluble Organic Nitrogen KONG Xiang-zhong, YU Hong-mei, SHU Liang-zuo, SONG Qiang, LIU Tao (1359)
- Effect of Ridge Film Mulching and Furrow Seeding Technique on N and P Sorption-Desorption Characteristics of Soils in Semi-Arid Region of Northwestern Liaoning FENG Chen, ZHENG Jia-ming, FENG Liang-shan, BAI Wei, WANG Peng-fei, YU Xiu-jie, WANG Bao-rong, SUN Zhan-xiang (1366)
- Relationship Between Quality of Tobacco Leaves and Physicochemical Properties of Soil in Hongda-producing Region in Dali of Yunan XU Dong-ya, Jiao Heng-zhe, Sun Jun-wei, Xu Fa-hua, SHI Hong-zhi (1373)
- Fractal Features of Soil Particles During Natural Vegetation Restoration in Ziwuling Region YAO Xiao-meng, WANG Kai-bo, ZHOU Zheng-chao, DANG Zhen-zhen (1380)
- Research of Soil Heavy Metal Mobility in Preferential Flow Paths and Soil Matrix ZHANG Ying-hu, TANG Chong-jun, ZHENG Hai-jin, ZHENG Tai-hui, ZHANG Jie, RICHARDS Brian K (1386)
- Soil Improvement Effect of Returning Farmland to Forest in Hechuan District, Chongqing HE Yan, SUN Bao-ping, XIAO En-bang, LIU Yang, ZHANG Jian-feng (1392)
- Influence of Water Supply and Phosphorus Application in Different Depth on photosynthetic characteristics and grain yield of Winter Wheat MA Zheng-hua, KOU Chang-lin, KANG Li-yun (1399)

Effect of Irrigation and Subsoiling on the Number of Summer Maize Rhizosphere Microbes ZHANG Ming-zhi, NIU Wen-quan, LI Kang-yong, LI Yuan (1407)

Extraction and Detection Methods of Residual Pyrethroids in Soil LIANG Ru-jing, SONG Xue-ying, CUI Xiao-wei, LI Jia-kang, LUO Qing, LI Yu-shuang, SONG Han (1415)

Effects of Black Soil Long-term Test Undisturbed Soil Moved on Soil Bacterial Community Diversity CHI Feng-qin, LIU Jing-xin, KUANG En-jun, ZHANG Jiu-ming, SU Qing-rui, ZHOU Bao-ku (1420)

Soil Ammonia-Oxidizing Archaea and their Possible Metabolism Type LI Jing-yun, LI Xiu-ling, GE Peng, LIU Ling-zhi (1428)

Relationship between the Halophyte Vegetation Succession and Soil Bacterial Community Structure in the Yellow River Delta ZHANG Yue, JIN Jian-ling, WANG Xiao-feng, JIANG Ai-xia, GUO Du-fa (1435)

Effect of Tourist Trampling on the Enzyme Activity of Mountain Meadow Soil in Beitai Scenic Spot of Wutai Mountain DUAN Qing-qian, FAN Wen-hua, WU Yan-jun, WU Zhi-hui, LIU Xia-xia, WANG Kun (1441)

Effects of Vegetation Type on Soil Enzyme Activities in Coastal Marsh HUANG Li-dong, Wang Li-jun, Wang Yue (1447)

Interannual Changes in Wheat Yield and Yield' Component under Long-term Fertilization NIESheng-wei, ZHANG Shui-qing, ZHANG Qiao-ping, BAO De-jun, HUANG Shao-min, HE Ning (1453)

Effects of Chemical Fertilizer Partially Replaced with Organic Fertilizer on Functional Diversity of Microbial Community in Potato Rhizosphere Soil CHENG Wan-li, LIU Xing, GAO Yi-an, ZHANG Wen-ming, WANG Di, QIU Hui-zhen, SHEN Qi-rong (1459)

Effects of organic fertilizer on soil building of the tobacco field after land consolidation LIAO Chao-lin, HUANG Bo, ZHANG Peng-bo, SHENG Hao, ZOU Kai, YU Qing-tao, ZHANG Yang-zhu (1466)

Use Biogas Fertilizer to Improve the Soil Fertility of Newly Reclaimed Cultivated Land ZHANG Li, BAO Chen-yan, ZHANG Ming-kui (1472)

Effect of fertilization on nutrient accumulation and yield of Hanfu apple HONG Guang-hui, JIANG Ying-ying, JIA Yao, TAN Wu-song, LIU xiu-ying, JIA Shu-Hai(1478)

Effects of Nitrogen Application Levels on Nitrogen Utilization Efficiency and Fate of Fertilizer for Winter-planting Potato WEI Jian-feng, WEI Qiao-yun, LIANG Zhen-hua, SONG Shu-hui, WEI Dong-ping, LIANG He (1483)

Effects of Phosphorus and Silicon Application on Uptake and Utilization of N, K by Maize ZHU Cong-Hua, XIE Meng-Lin, GUO Ping, ZHANG Jia-Li, ZHA Li, KONG Fan-Lei, YUAN Ji-Chao (1489)

Influence on the Properties of Continuous Cropping Soil from Facility Vegetable Field Treated by the Method of Anaerobic Reduction Soil Disinfestation ZHOU Kai-sheng (1497)

Reviews and Comments

Biological Effect of Rare Earth Elemboents on Subcellular Fraction in Plant ZHANG Xuan-bo, WANG Li-hong, ZHOU Qing (1503)

The Situation of Heavy Mental Pollution in Farmland and Control Measures in the Dongting Lake Region YI Ling-xiao, ZENG Qing-ru (1509)

A Review of Research Progress on Phosphorus Immobilization of Lead and its Affecting Factors YUAN Zhi-hui, LIU Min-chao, CHEN Zhi-liang, FANG Xiao-hang, HUANG Ling, ZHONG Song-xiong, SU Yao-ming (1514)

A Review of Soil Moisture Study on the Tibetan Plateau ZHU Xu-chao, SHAO Ming-an (1523)

Research Progress of Nitrogen Leaching in Grain Field under Different Cropping Patterns MA Xin-ling, ZHU Qi-lin, ZHAO Sheng-li, LONG Guang-qiang, TANG Li (1529)

中文核心期刊
中国科学引文数据库(CSCD)来源期刊
中国学术期刊综合评价数据库(CAJCED)统计源期刊
中国期刊全文数据库(CJFD)全文收录期刊
《CAJ-CD 规范》执行优秀奖
《中国期刊网》、《中国学术期刊(光盘版)》全文收录期刊
《中国核心期刊(遴选)数据库》收录期刊
中国科技论文统计源期刊(中国科技核心期刊)
《中国生物学文摘》和生物学文献数据库收录期刊
辽宁省一级期刊
RCCSE 中国权威学术期刊

土壤通报
Turang Tongbao

(双月刊 1957 年创刊)
第 46 卷 第 6 期(总第 279 期) 2015 年 12 月

CHINESE JOURNAL
OF SOIL SCIENCE
(Bimonthly, Started in 1957)
Vol.46 No.6 Dec.,2015

主管单位	中国科学技术协会	Administered by	China Association for Science and Technology
主办单位	中国土壤学会	Sponsored by	Soil Science Society of China
承办单位	沈阳农业大学	Undertaken by	Shenyang Agricultural University
编 辑	《土壤通报》编辑委员会 沈阳市沈河区东陵路 120 号,邮政编码:110866 网址: http://www.trtb.net	Edited by	Editorial Committee of Chinese Journal of Soil Science Add: Dongling Road 120, Shenyang 110866, China Web: http://www.trtb.net
主 编	张玉龙	Editor in Chief	ZHANG Yu-long
出 版	科学出版社 北京东黄城根北街 16 号, 邮政编码: 100717	Published by	Science Press 16 Donghuangchenggen North Street, Beijing 100717, China
印刷单位	沈阳中科印刷有限责任公司	Printed by	Shenyang Zhongke Printing Co.Ltd.
总 发 行	辽宁省邮政公司报刊发行公司	Released by	Post Company in Liaoning Province Newspaper Distribution Companies
国内发行	全国各地邮局	Domestic Issue by	All Local Post Offices in China
国外发行	中国国际图书贸易总公司 北京 399 信箱, 邮政编码: 100048	Oversea Issue by	China International Book Trading Corporation P.O.Box 399, Beijing 100048, China

刊号: ISSN 0564-3945 国内邮发代号: 8-15 2015 年 12 月 6 日出版 定价: 50.00 元
CN 21-1172/S 国外发行代号: BM8088