

ISSN 0564 - 3945

CN 21-1172/S

土壤通报

CHINESE JOURNAL OF SOIL SCIENCE

第 47 卷 第 1 期 Vol.47 No.1

2016

ISSN 0564-3945



中国土壤学会 主办
科学出版社 出版

土 壤 通 报

(Turang Tongbao)

第 47 卷 第 1 期 2016 年 2 月

目 次

研究报告

- 不同母质发育土壤的中红外吸收光谱特征 宋迪思, 盛 浩, 周 清, 周 萍, 王翠红, 张杨珠 (1)
- 皖北亳州烟区土壤肥力定量评价 宋效东, 郭 卢, 赵 安, 桑传杰, 李德成, 祖朝龙, 姜超强 (8)
- 怀来县土地利用变化与景观生态安全评价 贺文龙, 霍 晶, 门明新, 尹守强 (15)
- 基于脱钩理论的生态环境与经济增长关系研究 乔蕻强, 陈 英 (21)
- 基于生态分区的河北省植被覆盖时空变化特征研究
..... 尹海魁, 赵文廷, 李 超, 李大伟, 许 峰, 周亚鹏, 张 利 (29)
- 土地整理工程对土壤碳排放的影响 郭义强, 郎文聚, 黄 妮, 刘 琳 (36)
- 土壤水分扩散率单一参数模型空间变异及尺度效应的多重分形
..... 许坤鹏, 赵文刚, 马孝义, 钟新铭, 余 森 (42)
- 恒、变温培养模式对土壤呼吸温度敏感性影响之异同
..... 滕泽宇, 陈智文, 白 震, 王月阳, 解宏图, 何红波, 张旭东 (47)
- 城市绿地土壤呼吸特点及影响因素 陶 晓, 崔 珺, 徐 俊, 徐小牛 (54)
- 不同类型植被对高寒沙区土壤改良效果的差异分析 李少华, 王学全, 包岩峰, 尹书乐 (60)
- 河北省土壤有机质时空变化分析 韩 迪, 李蓬勃, 徐东瑞 (65)
- 高效液相色谱法测定设施番茄土壤低分子量有机酸的色谱条件研究
..... 李煜姗, 杨再强, 李 平, 侯奇奇, 韩 冬 (73)
- 不同含盐量土壤盐分对蒸发的影响试验研究
... 阿不都艾尼·阿不里, 伍靖伟, 塔西甫拉提·特依拜, 阿不都拉·阿不力孜, 依力亚斯江·努尔麦麦提 (79)
- 模拟氮沉降对内蒙古典型草地土壤 pH 和电导率的影响
..... 刘贺永, 何 鹏, 蔡江平, 王汝振, 殷进飞, 杨 山, 张玉革 (85)
- 飞播马尾松林土壤种子库的萌发特征及其与土壤理化性质的关系
..... 陈颖颖, 吴自荣, 潘 萍, 欧阳勋志 (92)
- 汶川地震对岷江柏林土壤微生物群落及养分的影响 赵丽丽, 钟哲科, 史作民 (98)
- 木醋液对盐碱土化学性质、酶活性及相关性的影响 周红娟, 耿玉清, 丛日春, 李莹飞, 刘 铎 (105)
- 两种有机肥在甘蔗-花生套种模式中的施用效果
..... 苏天明, 何铁光, 苏利荣, 张 野, 李 琴, 秦 芳, 刘宇锋 (112)
- 施氮对水稻产量、氮素利用及土壤无机氮积累的影响
..... 侯云鹏, 杨 建, 李 前, 秦裕波, 孔丽丽, 尹彩侠, 王立春, 谢佳贵 (118)
- 施硒对芦笋硒含量与品质的影响 谢启鑫, 罗绍春, 尹玉玲, 张岳平, 周劲松, 汤泳萍, 陈光宇 (125)
- 施硒对紫云英生长、生理和硒积累特性的影响
..... 刘 芳, 周乾坤, 周守标, 黄永杰, 刘 坤, 张丹丹, 周 会 (129)
- 秸秆还田对植烟土壤养分及真菌群落多样性的影响
..... 薄国栋, 申国明, 张继光, 刘德虎, 张忠峰, 高 林, 于会泳, 王 毅 (137)
- 土层置换对草甸土理化性状及作物产量的影响
..... 朱宝国, 赵文军, 张春峰, 贾会彬, 孟庆英, 王囡囡, 匡恩俊 (143)
- 西北旱区压砂地土壤水分入渗规律研究 赵文举, 李晓萍, 范严伟, 郁 文 (150)
- 不同沙丘下梭梭 (*Haloxylon ammodendron*) 主根周围土壤特征的差异性研究

..... 马晓飞, 楚新正, 马 倩, 靳万贵 (156)

兽用抗生素胁迫对水芹生长及其抗生素积累的影响 鲍陈燕, 顾国平, 章明奎 (164)

应用物元分析法评价矿区周边土壤重金属污染的变化 苏海民, 何爱霞, 袁新田 (173)

苏南村镇土壤重金属空间变异性研究 李小曼, 刘 勤, 徐梦洁, 孟令仪 (179)

有色金属采选冶基地周边土壤中重金属纵向分层研究 史 锐, 岳 荣, 张 红 (186)

生物质炭对单一与复合污染土壤中铜、铅、铬的钝化作用
..... 夏 鹏, 王学江, 张 晶, 王 鑫, 宋靖珂, 陈 杰 (192)

三种铁氧化物对 As(Ⅲ)和 As(V)的吸附研究 孙 林, 王 寅, 司友斌 (198)

少花龙葵种间嫁接后代对小白菜生长及镉积累的影响
..... 汤福义, 林立金, 杨代宇, 廖明安, 马倩倩, 刘春阳, 何 静 (207)

苍南沿浦湾滩涂重金属污染现状评价 刘 笑, 寿露君, 潘玉英, 水柏年, 杨金生, 田 阔 (213)

基于文献计量的中国农田土壤重金属污染评价 ... 陈奕云, 唐名阳, 王淑桃, 王 奇, 詹皖欣, 黄 冠 (219)

专题综述

农田土壤紧实度研究进展 杨世琦, 吴会军, 韩瑞芸, 杨正礼 (226)

矿区机械压实对土壤孔隙特性影响的研究进展 刘 涛, 王金满, 秦 倩, 王洪丹, 白中科 (233)

林火对土壤有机质的影响研究综述 刘发林, 肖化顺, 罗鹏飞 (239)

西北地区盐渍土盐胀特性研究进展与思考 任秀玲, 张 文, 刘 昕, 罗艳珍, 魏 凯 (246)

土壤可蚀性研究进展 翟子宁, 苏 备 (253)

CHINESE JOURNAL OF SOIL SCIENCE

Vol.47 No.1 Feb., 2016

CONTENTS

Research Articles

- Characteristics of Middle-Infrared Absorption Spectrum of Soils Derived from Different Parent Materials
..... SONG Di-si, SHENG Hao, ZHOU Qing, ZHOU Ping, WANG Cui-hong, ZHANG Yang-zhu (1)
- Evaluation of Soil Fertility of Tobacco Fields in BoZhou of North Anhui Province
... SONG Xiao-dong, GUO Lu, ZHAO An, SANG Chuan-jie, LI De-cheng, ZU Chao-long, JIANG Chao-qiang (8)
- The Land Use Change and Landscape Ecological Security Assessment in Huailai County
..... HE Wen-long, HUO Jing, MENG Ming-xin, YIN Shou-qiang (15)
- Research on the Relationship between Ecological Environment and Economic Growth Based on the Decoupling Theory
..... QIAO Hong-qiang, CHEN Ying (21)
- Analysis the Spatial-temporal Change of Vegetation Cover Based on Ecological Zones in Heibei Province
..... YIN Hai-kui, ZHAO Wen-ting, LI Chao, LI Da-wei, XU Hao, ZHOU Ya-peng, ZHANG Li (29)
- The Effect of Land Consolidation Projects on Soil Carbon Emissions
..... GUO Yi-qiang, YUN Wen-ju, HUANG Ni, LIU Lin (36)
- Multifractal of Spatial Variability and Scale Effects on Single Parameter Model of Soil Water Diffusivity
..... XU Kun-peng, ZHAO Wen-gang, MA Xiao-yi, ZHONG Xin-ming, YU Miao (42)
- Comparison of Temperature Sensitivity of Soil Respiration between Varying and Constant Temperature Regimes ...
..... TENG Ze-yu, CHEN Zhi-wen, BAI Zhen,
WANG Yue-yang, XIE Hong-tu, HE Hong-bo, ZHANG Xu-dong (47)
- Characteristics of soil respiration and its Controlling Factors in Urban Green-lands in Hefei, China
..... TAO Xiao, CUI Jun, XU Jun, XU Xiao-niu (54)
- Variability of Soil Properties under Different Vegetation Plots in Alpine Sandy Land
..... LI Shao-hua, WANG Xue-quan, BAO Yan-feng, YIN Shu-le (60)
- Temporal-spatial Changes of Soil Organic Matter in Hebei Province HAN Di, LI Peng-bo, XU Dong-rui (65)
- Study on Chromatographic Condition in Determination of Low Molecular Weight Organic Acids in Tomato-planted
Soil under Greenhouse with HPLC LI Yu-shan, YANG Zai-qiang, LI Ping, HOU Qi-qi, HAN Dong (73)
- The Effect of Different Soil Salt Contents on Evaporation
..... ABDUGHENI Abliz, WU Jing-wei, TASHPOLAT Tiyp, ABDULLA Abliz, ILYAS Nurmemet (79)
- Effects of Simulated Nitrogen Deposition on Soil pH and Electric Conductivity in a Typical Grassland of Inner
Mongolia LIU He-yong, HE Peng, CAI Jiang-ping,
WANG Ru-zheng, YIN Jing-fei, YANG Shan, ZHANG Yu-ge (85)
- The Germination Characteristics of Soil Seed Bank and Its Relationship with Soil Properties in Aerially-seeded
Pinus Massoiana Plantations CHEN Ying-ying, WU Zi-rong, PAN Ping, OUYANG Xun-zhi (92)
- Effects of Wenchuan Earthquake on Soil Microbial Communities and Nutrients in *Cupressus Chenginana* Forest
..... ZHAO Li-li, ZHONG Zhe-ke, SHI Zuo-min (98)
- Effects of Wood Vinegar on Chemical Properties, Enzyme Activities and Their Correlation in Saline Alkali Soil
..... ZHOU Hong-juan, GENG Yu-qing, CONG Ri-chun, LI Ying-fei, LIU Duo (105)
- Effects of Two Organic Manures Application on Sugarcane- Peanut Intercropping Mode
..... SU Tian-ming, HE Tie-guang, SU Li-rong, ZHANG Ye, LI Qin, QIN Fang, LIU Yu-feng (112)
- Effects of Nitrogen Application on Yield, Nitrogen Utilization and Accumulation of Soil Inorganic Nitrogen of Rice
..... HOU Yun-peng, YANG Jian, LI Qian,
QIN Yu-bo, KONG Li-li, YIN Cai-xia, WANG Li-chun, XIE Jia-gui (118)

Effect of Selenium Application on Selenium Content and Nutrient Quality of Green Asparagus	XIE Qi-xin, LUO Shao-chun, YIN Yu-ling, ZHANG Yue-ping, ZHOU Jin-song, TANG Yong-ping, CHEN Guan-yu (125)
Effect of Application of Sodium Selenite to Soil on the Growth and Physiological Indexes and Selenium Accumulation of <i>Astragalus Sinicus</i>	LIU Fang, ZHOU Qian-kun, ZHOU Shou-biao, HUANG Yong-jie, LIU Kun, ZHANG Dan-dan, ZHOU Hui (129)
Effects of Straw Returning on Soil Nutrients and Fungal Diversity in Tobacco Planting Field	BO Guo-dong, SHEN Guo-ming, ZHANG Ji-guang, LIU De-hu, ZHANG Zhong-feng, GaoLin, YU Hui-yong, Wang Yi (137)
The Impact of Soil Replacement on Soil Physical and Chemical Property and Crop Yield in Meadow Soil	ZHU Bao-guo, ZHAO Wen-jun, ZHANG Chun-feng, JIA Hui-bin, MENG Qing-ying, WANG Nan-nan, KUANG En-jun (143)
A Study on Soil Water Infiltration of Gravel-mulched Field in Northwestern Arid Area	ZHAO Wen-ju, LI Xiao-ping, FAN Yan-wei, YU Wen (150)
Study on the Differences of Soil Characteristics in Root Zone of <i>Haloxylon Ammodendron</i> in Various Dunes	MA Xiao-fei, CHU Xin-zheng, MA Qian, JIN Wan-gui (156)
Effects of Veterinary Antibiotics Stress on Growth and Antibiotics Accumulation of <i>Oenanthe Javanica</i> DC	BAO Chen-yan, GU Guo-ping, ZHANG Ming-kui (164)
Pollution Evaluation of Soil Heavy Metal around Mining Using Matter Element Analysis	SU Hai-min, HE Ai-xia, YUAN Xin-tian (173)
Spatial Variability of Heavy Metal Contents in Towns of Southern Jiangsu Province	LI Xiao-man, LIU Qin, XU Meng-jie, MENG Ling-yi (179)
Research on Vertical Distribution of Heavy Metal in Soil around Non-ferrous Metal Industry Area	SHI Rui, YUE Rong, ZHANG Hong (186)
Immobilization of Copper, Lead and Chromium in Single and Multiple Contaminated Soil with Biochar	XIA Peng, WANG Xue-jiang, ZHANG Jing, WANG Xin, SONG Jing-ke, CHEN Jie (192)
Comparison of Adsorption of As (III) and As (V) by Three Iron Oxides ...	SUN Lin, WANG Yin, SI You-bin (198)
Effects of Inter-Species Post-Grafting Generation of <i>Solanum Photeinocarpum</i> on Growth and Cadmium Accumulation of <i>Brassica Rapa Chinensis</i>	TANG Fu-yi, LIN Li-jin, YANG Dai-yu, LIAO Ming-an, MA Qian-qian, Liu Chun-yang, HE Jing (207)
Heavy Metal Pollution Status Assessment in Yanpu Bay Beach of Cangnan County	LIU Xiao, SHOU Lu-jun, PAN Yu-ying, SHUI Bo-nian, YANG Jin-sheng, TIAN Kuo (213)
Evaluation of Heavy Metal Pollution in Farmland Soil of China Based on Bibliometrics	CHEN Yi-yun, TANG Ming-yang, WANG Shu-tao, WANG Qi, ZHAN Wan-xin, HUANG Guan (219)
Reviews and Comments	
A Review of Soil Compaction in Farmland	YANG Shi-qi, WU Hui-jun, HAN Rui-yun, YANG Zheng-li (226)
Advance in the Study on the Effect of Mechanical Compaction on Soil Pore Characteristics in Mining Area	LIU Tao, WANG Jin-man, QIN Qian, WANG Hong-dan, BAI Zhong-ke (233)
A Review: the Effect of Forest Fire on Soil Organic Matter	LIU Fa-lin, XIAO Hua-shun, LUO Peng-fei (239)
The Research Development and Thinking About the Expansibility Property of Saline Soil in Northwest Region ...	REN Xiu-ling, ZHANG Wen, LIU Xin, LUO Yan-zheng, WEI Kai (246)
Research Progress on Soil Erodibility	ZHAI Zi-ning, SU Bei (253)

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 47 卷 第 1 期(总第 280 期) 2016 年 2 月

CHINESE JOURNAL
OF SOIL SCIENCE
(Bimonthly, Started in 1957)
Vol.47 No.1 Feb., 2016

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 2016 年 2 月 6 日出版 定价: 50.00 元
 CN 21-1172/S 国外发行代号: BM8088