



QK1713289

ISSN 0564-3945

CN 21-1172/S

土壤通报

CHINESE JOURNAL OF SOIL SCIENCE

第 48 卷 第 3 期 Vol.48 No.3

2017

ISSN 0564-3945



0.6>

9 770564 394174

中国土壤学会 主办



科学出版社 出版

土壤通报

(Turang Tongbao)

第 48 卷 第 3 期 2017 年 6 月

目 次

研究报告

- 中尺度土壤预测制图中地形变量提取的适宜分辨率探讨 姜卫祥, 吕成文 (513)
- 基于灰色理论与回归模型的土壤类型预测研究 任东风, 尤静静, 尤明英, 孙福军 (520)
- 基于马尔科夫模型的大凌河流域土地利用 / 覆被变化趋势研究 ... 裴 亮, 陈 晨, 戴激光, 吴 迪 (525)
- 塔里木河流域人工与天然绿洲转化过程与适宜比例初探
..... 郭宏伟, 徐海量, 凌红波, 樊自立, 赵新风, 张 鹏 (532)
- 基于 WebGIS 的宁夏土壤数据库设计与开发 吴 霞, 王 琛, 王长军 (540)
- 黄骅市土壤含盐量空间变异特征和影响因素分析 臧 亮, 张 慧, 赵红安, 张贵军, 朱永明 (545)
- 基于电磁感应仪的土壤盐渍化剖面特征解译研究 宋江辉, 朱永琪, 陈建华, 杨 光, 王海江 (552)
- 基于不同光谱变换的土壤盐含量光谱特征分析 朱 贇, 申广荣, 项巧巧, 吴 裕 (560)
- 盐碱土壤 PHILIP 入渗模型参数的神经网络预报模型 程诗念, 樊贵盛 (569)
- 宜宾地区土壤有效态微量元素空间变异特征及影响因素
..... 张 浩, 张 新, 李启权, 王昌全, 周泽弘, 向金友, 易 蔓, 杨 洋 (575)
- 四川省土壤温度状况空间分布特征
..... 翁 倩, 袁大刚, 李启权, 王昌全, 张 楚, 宋易高, 付宏阳, 陈剑科 (583)
- 旱作物垄膜种植增温作用及增产效应研究
..... 高 宇, 任永峰, 尹秀兰, 李 彬, 吕秋实, 石玉先, 赵沛义, 贾有余, 聂 晶, 蒙美丽 (589)
- 天山南坡台兰河上游草地土壤理化性质与海拔的关系研究 马国飞, 满苏尔·沙比提, 靳万贵 (597)
- 模拟氮沉降对小兴安岭地区人工红松林土壤氮转化的影响 王小云, 温 腾 (604)
- 四川盆地酸性紫色水稻土硝化作用的类型及氧化锰的影响 万琪慧, 苏 静, 赵永鹏, 蒋先军 (611)
- 电动模拟土壤酸化及其交换性离子组成变化 韦杨嫣, 卢升高 (618)
- 大气 O₃ 升高对小麦根际土壤微生物量和氮素转化酶活性的影响
..... 陈 伟, 皇甫倩华, 孙从建, 张丽莉, 武志杰 (623)
- 烤烟不同套作模式对土壤理化性质和真菌群落结构的影响
..... 韦 俊, 杨焕文, 徐照丽, 邓小鹏, 林云红, 熊 茜, 王 戈, 白羽祥, 吕世保, 谭小兵 (631)
- 设施土壤微生物结构和酶活性对减量化肥配施有机肥的响应 姜 蓉, 汤 利, 李 森, 徐 智 (639)
- 川西北高寒草甸土壤微生物功能多样性对磷 (P) 添加的响应
..... 字洪标, 代 迪, 胡 雷, 阿的鲁骥, 王长庭 (647)
- 三峡库区中部移民安置区土壤养分特征及变化评价
..... 刘 勤, 王玉宽, 严 坤, 郭滢蔓, 陈颖峰, 王 珊 (656)
- 不同碳氮比下牛粪高温堆肥腐熟进程研究
..... 刘 超, 王若斐, 操一凡, 顾文文, 乔策策, 寻佳佳, 李 荣, 沈其荣 (662)
- 钾用量与灌溉方式互作对土壤——烤烟系统钾素及烟叶品质的影响
..... 张 翔, 索炎炎, 毛家伟, 李 亮, 范艺宽, 司贤宗 (669)
- 蚯蚓粪与酒糟不同配比对土壤理化性质及烤烟品质的影响初探
..... 赵鹏博, 郑璞帆, 李司童,
毛凯伦, 毕明飞, 吴 薇, 金保锋, 扈 强, 刘海轮, 唐永红, 张立新 (676)
- 含氨基酸水溶肥料在设施辣椒和豇豆上的田间效应研究

..... 王 蓓, 黄忠阳, 徐明喜, 李伟明, 陈莉莉, 吴旭东, 王东升, 余光辉, 刘庆叶, 李 荣, 沈其荣 (683)	保水剂与秸秆深施对砂质潮土水肥状况及小麦产量的影响
..... 吴传发, 文 倩, 韩燕来, 汪 强, 姜 瑛, 李培培 (692)	东北黑土区横垄坡面融雪期细沟侵蚀特征研究
..... 刘雨佳, 许秀泉, 范昊明, 贾燕锋, 周丽丽, 华文杏 (701)	水土保持措施对坡耕地土壤养分时空变异影响
李海强, 郭成久, 蔡楚雄, 李 勇 (707)	工业区周边农田重金属污染评价及来源分析
张东明, 吕 新, 王海江, 张 泽, 王 飞, 马革新 (715)	襄阳古城表层土壤重金属污染特征研究
刘秀帆, 常华进, 孙小舟, 文 力, 李权国, 祝云龙 (724)	Pb 和 Cd 在壤土不同剖面土壤中的竞争吸附作用
..... 杨 贞, 石 辉, 王会霞, 左 娜, 钟梦婷, 王莉萍 (730)	

专题综述

土壤质量评价中文文献分析	林 卡, 李德成, 张甘霖 (736)
基于文献计量的土壤有机碳与土壤微生物多样性研究前沿态势分析	
..... 李 雅, 刘 梅, 曾全超, 顾丹丹, 刘少敏, 安韶山 (745)	
硼对烟草生理特性及品质影响的研究进展	穆 童, 许自成, 李渊博, 刘志宏 (757)
干湿交替对土壤性质影响的研究	张 素, 熊东红, 校 亮, 杨 丹, 张宝军, 吴 汉 (762)

CHINESE JOURNAL OF SOIL SCIENCE

Vol.48 No.6 Jun., 2017

CONTENTS

Research Articles

- Discussion on Appropriate Resolution of Terrain Factors Extraction in Meso-scale Soil Prediction Mapping JIANG Wei-xiang, LV Cheng-wen (513)
- Prediction of Soil Types Based on Grey Theory and Regression Model REN Dong-feng, YOU Jing-jing, YOU Ming-ying, SUN Fu-jun (520)
- Research on Forecast Trend of Land Use and Land Cover Change in Daling River Basin Based on Markov Model PEI Liang, CHEN Chen, DAI Ji-guang, WU Di (525)
- Transformation Process and Appropriate Area Proportion of Artificial and Natural Oases in the Tarim River Basin GUO Hong-wei, XU Hai-liang, LING Hong-bo, FAN Zi-li, ZHAO Xin-feng, ZHANG Peng (532)
- Design and Development of Soil Database in Ningxia Based on WebGIS WU Xia, WANG Chen, WANG Zhang-jun (540)
- Assessment on Spatial Variability and Influencing Factors of Soil Salinity in Huanghua City ZANG Liang, ZHANG Hui, ZHAO Hong-an, ZHANG Gui-jun, ZHU Yong-ming (545)
- Interpretation of Soil Profile Salinization Characteristics Based on Electromagnetic Inductor SONG Jiang-hui, ZHU Yong-qi, CHEN Jian-hua, YANG Guang, WANG Hai-jiang (552)
- Spectral Characteristics of Soil Salinity Based on Different Preprocessing Methods ZHU Yun, SHEN Guang-rong, XIANG Qiao-qiao, WU Yu (560)
- Philip Infiltration Parameters of Neural Network Prediction Model for Saline-alkali Soil CHENG Shi-nian, FAN Gui-sheng (569)
- Spatial Variability of Soil Available Microelement and Its Influencing Factors in Yibin ZHANG Hao, ZHANG Xin, LI Qi-quan, WANG Chang-quan, ZHOU Ze-hong, XIANG Jin-you, YI Man, YANG Yang (575)
- Spatial Distribution of Soil Temperature Regime in Sichuan Province WENG Qian, YUAN Da-gang, LI Qi-quan, WANG Chang-quan, ZHANG Chu, SONG Yi-gao, FU Hong-yang, CHEN Jian-ke (583)
- Effects of Increasing Temperature and Yield under Cultivation of Full Plastic Film Mulching on Double Riges in Dryland Crops GAO Yu, REN Yong-feng, YI Xiu-lan, LI Bin, LV Qiu-shi, SHI Y-xian, ZHAO Pei-yi, JIA You-yu, NIE Jing, MENG Mei-li (589)
- Grassland Soil Physicochemical Properties at Different Altitudes in Tailan River Upstream of the Southern Slope of Tianshan Mountain MA Guo-fei, MANSUR Sabit, JIN Wan-gui (597)
- Effects of Simulated Nitrogen Deposition on Soil Nitrogen Transformation in Artificial Korean Pine of Xiaoxing'anling Region WANG Xiaoyun, WEN Teng (604)
- Nitrification and Influence by Birnessite in Acidic Purple Paddy Soils of Sichuan Basin WAN Qi-hui, SU Jing, ZHAO Yong-peng, JIANG Xian-jun (611)
- Soil Acidification Simulation and Exchangeable Cation Change by Electrokinetics Method WEI Yang-yan, LU Sheng-gao (618)
- Influence of Elevated O₃ and Different Wheat Cultivars on Soil Enzymes Involving in Nitrogen Transformation CHEN Wei, Huangfu Qian-hua, SUN Cong-jian, ZHANG Li-li, WU Zhi-jie (623)
- Influence of Different Intercropping Patterns of Flue-cured Tobacco on Soil Properties and Fungal Community Structure WEI Jun, YANG Huan-wen, XU Zhao-li, DENG Xiao-peng, LIN Yun-hong, XIONG Qian, WANG Ge, BAI Yu-xiang, LV Shi-bao, TAN Xiao-bing (631)
- Response of Greenhouse Soil Microbial Community and Enzyme Activities to Combined Application of Chemical

- Fertilizer Reduction with Organic Fertilizer JIANG Rong, TANG Li, LI Miao, XU Zhi (639)
- Responses of Soil Microbial Functional Diversity to Phosphorus Addition in an Alpine Meadow on
Northwestern Plateau of Sichuan Province ... ZI Hong-biao, DAI Di, HU Lei, ADE Lu-ji, WANG Chang-ting (647)
- Evaluation for Soil Nutrient Characteristics and Changes in Resettlement Region in the Middle Part of Three
Gorges Reservoir ... LIU Qin, WANG Yu-kuan, YAN Kun, GUO Ying-man, CHEN Ying-feng, WANG Shan (656)
- Fermentation Process under High Temperature Composting of Cow Manure with Different C/N Values
..... LIU Chao,
WANG Ruo-fei, CAO Yi-fan, GU Wen-wen, QIAO Ce-ce, XUN Jia-jia, LI Rong, SHEN Qi-rong (662)
- Effect of Potassium Rate and Irrigation Methods on Potassium Contents in Plant-soil System and Quality of
Flue-cured Tobacco ... ZHANG Xiang, SUO Yan-yan, MAO Jiang-wei, LI Liang, FAN Yi-kuan, SI Xian-zong (669)
- Effects of Different Ratios of Vermicompost and Vinasse on Soil Physical and Chemical Properties and Quality
of Flue-cured Tobacco ZHAO Peng-bo, ZHENG Pu-fan, LI Si-tong, MAO Kai-lun,
BI Ming-fei, WU Wei, JIN Bao-feng, HU Qiang, LIU Hai-lun, TANG Yong-hong, ZHANG Li-xin (676)
- Effect of Root Irrigation with Water Soluble Fertilizer Containing Amino acids on Pepper and Cowpea Growth
under Facility Agriculture WANG Bei, HUANG Zhong-yang, XU Ming-xi, LI Wei-ming,
CHEN Li-li, WU Xu-dong, WANG Dong-sheng, YU Guang-hui, LIU Qing-ye, LI Rong, SHEN Qi-rong (683)
- Effect of Water Retaining Agent and Straw Applications on Water and Fertilizer Status and Wheat Yield
in Sandy Chao Soil WU Chuan-fa, WEN Qian, HAN Yan-lai, WANG Qiang, JIANG Ying, LI Pei-pei (692)
- Rill Erosion Characteristics on Slope Farmland of Horizontal Ridge Tillage during Snow-melting Period in Black
Soil Region of Northeast China LIU Yu-jia,
XU Xiu-quan, FAN Hao-ming, JIA Yan-feng, ZHOU Li-li, HUA Wen-xing (701)
- Effect of Soil and Water Conservation Measures on Temporal and Spatial Variability of Soil Nutrients in Sloping
Farmland LI Hai-qiang, GUO Cheng-jiu, CAI Chu-xiong, LI Yong (707)
- Heavy Metal Pollution Assessment and Source Analysis on Farmland Soil around an Industrial Area
..... ANG Dong-ming, LV Xin, WANG Hai-jiang, ZHANG Ze, WANG Fei, MA Ge-xin (715)
- Pollution Characteristics of Heavy Metals in Topsoil from Ancient City of Xiangyang
..... LIU Xiu-fan, CHANG Hua-jin, SUN Xiao-zhou, WEN Li, LI Quan-guo, ZHU Yun-long (724)
- Competitive Adsorption Behavior and Mechanism toward Pb and Cd at Different Tier Soil Profiles
..... YANG Zhen, SHI Hui, WANG Hui-xia, ZUO Na, ZHONG Meng-ting, WANG Li-ping (730)

Reviews and Comments

- Literature Analysis on Soil Quality Assessment in China based on CNKI Database
..... LIN Ka, LI De-cheng, ZHANG Gan-lin (736)
- Frontier Situation Analysis of the Research on Soil Carbon Sequestration and Soil Microbial Diversity Based on
Bibliometric LI Ya, LIU Mei, ZENG Quan-chao, GU Dan-dan, LIU Shao-min, AN Shao-shan (745)
- Research Progress on the Effect of Boron on Physiological Property and Quality of Tobacco
..... MU Tong, XU Zi-cheng, LI Yuan-bo, LIU Zhi-hong (757)
- Influence of Dry-Wet Cycling on Soil Properties
..... ZHANG Su, XIONG Dong-hong, XIAO Liang, YANG Dan, ZHANG Bao-jun, WU Han (762)

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48卷 第3期(总第288期) 2017年6月

CHINESE JOURNAL
OF SOIL SCIENCE

(Bimonthly, Started in 1957)

Vol.48 No.3 Jun., 2017

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
CN 21-1172/S

国内邮发代号: 8-15
国外发行代号: BM8088

2017年6月6日出版 定价: 50.00元