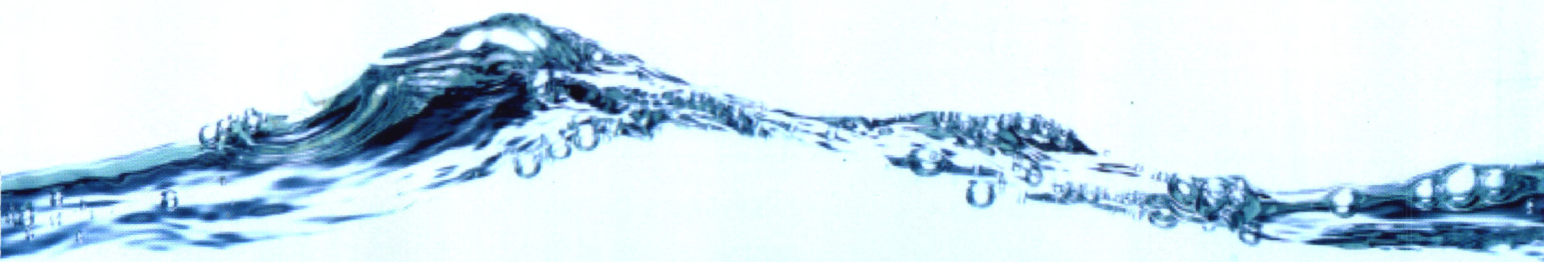


国家期刊奖提名奖 | 中国国际影响力优秀期刊 | ISSN 1009-2242
 中国精品科技期刊 | 中国百种杰出学术期刊 | CN 61-1362/TV

水土保持学报

JOURNAL OF SOIL AND WATER CONSERVATION

第28卷 第4期 Vol.28 No.4 **2014**



ISSN 1009-2242



9 771009 224032

08>

中国科学院水利部水土保持研究所 **主办**
 中国土壤学会

Journal of Soil and Water Conservation

Vol. 28 No. 4 Aug., 2014

Contents

- Effect of Reducing Fertilizer and Resource Recycling on Nitrogen and Phosphorus Loss on Black Soil with Planting Maize in Northeast Region Under Natural Rainfall Condition YAN Li, et al(1)
- Temporal Changes of P Concentrations in Floodwater Under Different Soil Types and P Fertilizer Rates FU Chao-dong, et al(7)
- Characteristics of Soil Infiltration in the Process of Vegetation Restoration in Severly Burned Area in the Great Xing'an Mountains WANG Li-hong, et al(13)
- Effects of Land Consolidation on Long-term Soil Erosion Based on WEPP Model LIU Shi-liang, et al(18)
- Effect Analysis of Soil and Water Conservation of Jute Geotextile on the Different Layers of Soil ZHANG Yong, et al(23)
- Wind-tunnel Experimental Study of Industrial Waste Slags in Northern China HE Zhi-lin, et al(29)
- Effects of Different Crop Stubble Combined with Biological Fences on Reducing Soil Wind Erosion ZHAO Pei-yi, et al(33)
- Effect of Canopy Interception on Nitrogen, Phosphorus and Sulfur in *Pinus Massoniana* Plantations ZHANG Jie, et al(37)
- Simulation of Canopy Rainfall Interception of the *Larix principis-rupprechtii* Artificial Forest with the Gash Model in High-cold Areas of Qinghai Province LU Xin-jian, et al(44)
- Prediction Model of Wetted front Migration Distance Under Moisture-irrigation XUE Wan-lai, et al(49)
- Effects of Vegetation Patterns on Overland Flow Resistance ZHANG Guan-hua, et al(55)
- Study on the Soil Hydrological Effect of the Walnut-alfalfa Forest Transformed from the Barren Hillock YUAN Xiao-long, et al(60)
- Study on Distribution and Mechanical Properties of Plant Roots for Highway Slope Protection in Loess Plateau LIU Zi-zhuang, et al(66)
- Study on the Availability of *Hedysarum fruticosum* Roots to Improve Shear Strength GE Ri-le, et al(72)
- Trend of Streamflow and Its Controlling Factor Under the Regional Vegetation Restoration in Beiluo River Basin ZHANG Ting-ting, et al(78)
- Effects of Laser Land Leveling on Irrigation Uniformity and Spring Wheat Growth BAI Gang-shuan, et al(85)
- Effects of Applied Time of Ammonium and Nitrate N on Wheat Yield MIAO Yan-fang, et al(91)
- Effects of Plastic Film Mulching on Absorption and Distribution of P and K and Water Use Efficiency of Spring Maize in North China Plain LIU Sheng-yao, et al(97)
- Effects of Different Nitrogen Forms on N, P, K Uptake of Corn and Nitrogen Balance JI De-zhi, et al(104)
- Effects of Controlled-release Nitrogen Fertilizer on Inorganic Nitrogen Distribution in Soil Profile and Yield of Summer Corn HU Bin, et al(110)
- Effects of Controlled Release Nitrogen Fertilizer on Yield and Soil Nutrient Regime of Wheat-Corn Rotation System SUN Yun-bao, et al(115)
- Influence of Controlled Release Urea Coated by Sulfur and Polymer on Soil Nitrogen in Different Growth Stages of Wheat ZHENG Pei, et al(122)
- Effect of Different Mulching Patterns on Soil Moisture and Crop Productivity of Spring Maize XIE Wen-yan, et al(128)
- Effects of Combination of Fertilizer and Additive NAM on Dry Matter, Yield and Nutrient Uptake of Cotton LI Qing-jun, et al(134)
- Distribution and Storage Characteristics of Soils Nitrogen with Different Plant Communities in the Riparian Wetland Recovered from Farmlands XIAO Chun-yan, et al(138)
- Effects of Different Nitrogen Fertilizers on Ammonia Volatilization and Its Dynamic Characteristics of Double Cropping Rice ZHOU Liang, et al(143)
- Effect of Nitrogen Application Levels on Microbiological Characteristics of Soils with Different Fertility Basics WANG Nan, et al(148)
- Effects of the Change of Rhizosphere Fertilization Location on Characteristics of Absorption and Distribution of ¹⁵N for Peach Trees XIAO Yuan-song, et al(153)
- Effects of Mulching on Soil Physical and Chemical Properties in Walnut Orchard SUN Meng, et al(158)
- Effect of Mechanized Conservation Tillage on Soil Physicochemical Properties of Dryland in Karst Mountainous Area HE Teng-bing, et al(163)
- Effect of Different Fertilization Methods on Physico-chemical Properties of Collapsing Gully Alluvial Sector in Anxi County DENG Yu-sun, et al(168)
- Effect of Artificial *Caragana intermedia* Shrubs on Soil Physical Stability in Desert Steppe PAN Jun, et al(172)
- Effect of Thinning Area with Gaps on Soil Organic Carbon Content and Carbon Pool Management Index in Low Efficiency Cypress Forest WANG Xie, et al(177)
- Study on Spatial Variability and Its Influential Factors of Topsoil Organic Carbon Density in the Hilly Region of the Middle Sichuan HU Yu-fu, et al(183)
- Impact of Irrigation Process on Soil Organic/Inorganic Carbon and Physicochemical Properties XIE Huai-liang, et al(188)
- Distribution Characteristics and Influencing Factors of Soil Active Organic Carbon at Different Elevations on West Slope of Helan Mountain SUN Hai-yan, et al(194)
- Variation of Contents of Organic Carbon and Physico-chemical Properties of Soil and Path Analysis for Their Relations in Different Age-group Chinese Fir Plantations CAO Xiao-yu, et al(200)
- Effect of Conservation Tillage on Soil Carbon Pool in Farmland LV Rui-zhen, et al(206)
- Distribution of Soil C : N Ratio in Three Forest Types on Different Slope Positions in Mt. Shennongjia, China ZHOU Zhi-wen, et al(210)
- Priming Effect of Wheat Straw Addition on Organic Carbon Mineralization in Various Aggregates of Black Soil MIAO Shu-jie, et al(218)
- Study on Distribution and Transportation of Salt Ions in the System of Different Tree Species and Soil of Coastal Saline Soil LWANG He-yun, et al(222)
- Influence of Urea on the Uptake of Cu, Zn and Cd of Corn at Different Stages of Growth SUN Lei, et al(227)
- Effect of *Bacillus megaterium* and *Brassica juncea* Combination on Phytoextraction of Cd from Polluted Soil WANG Xiao-min, et al(232)
- Crop Yields and Heavy Metal Balance in Soil-Tomato System as Affected by Application of Livestock and Poultry Manure LU Hong-juan, et al(237)
- Effects of Xiaobudong Rubber Dam on the Distribution of Sediment Heavy Metals in Yihe River at Linyi City, Shandong Province LI Bao, et al(243)
- Distribution Characteristics and Ecological Risk Assessment of Heavy Metals in the Mining Subsidence Reclamation Area ZHENG Liu-gen, et al(247)
- Synthesis of Citric Acid-1-Amide Diethylene Triamine and Its Remediation Behavior for Soil Heavy Metal Pollution FU Li-jun, et al(252)
- Spatial Variation of Soil Bulk Density of Ephemeral Gullies in Hilly Areas of Loess Plateau DGENG Ren, et al(257)
- Relationships Between Soil Macropores Properties and Preferential Flow About Two Kind of Woodlands in Simian Mountains WEI Hu-wei, et al(263)
- Effect of Papermaking Wastewater on Na⁺ Migration in Wetlands Soil SU Fang-li, et al(269)
- Study on Dynamic Characteristics of Soil Water-Saline of Different Interlayers Under Evaporation ZHAI Peng-hui, et al(273)
- Effect of Farmland Irrigation and Drainage on Soil Water-salt Transport of Jujube Root Zone in Arid Area ZHANG Jun, et al(278)
- The Properties of Two Kinds of Super Absorbent Polymer and Its Application CAO Yuan-bo, et al(283)
- Particle Size Characteristics of Sediment in Draw Down Area of Upper Yangtze River and Its Major Tributaries of Three Gorges Reservoir YAN Dan-dan, et al(289)
- Responses of Photosynthetic Physiological Indexes of *Castanopsis fargesii*, *Castanopsis sclerophylla* and *Cyclobalanopsis glauca* Seedling Leaves to Warming and Nitrogen Addition Under Artificial Control Conditions WANG Zhi-yuan, et al(293)
- Effects of Pyrolysis Condition on Basic Group of Biochar and Amelioration of Acid Soil ZHAO Mu-qiu, et al(299)
- Effects of Applying Amount of Selenium on Selenium Accumulation and Selenium Forms of *Astragalus sinicus* ZHOU Qian-kun, et al(304)
- Effects of Two Ways of Applying Selenium in Soil on the Growth, Biological Characteristics and Selenium Accumulation of *Dendranthema morifolium* KONG Juan-juan, et al(310)
- Effect of Exogenous NO on Phytochelatins and Arginine Metabolism in Tomato Under Copper Stress WANG Jian, et al(317)
- Effect of Exogenous Salicylic Acid on Carbon Metabolism of Tobacco Leaves Under Copper Stress GE Shu-fang, et al(324)
- Analysis on Variation Characteristics of Surface Soil Susceptibility in Yellow Soil Slope LIU Long-hua, et al(330)
- Analysis of the SCI-cited Papers from Journal of Soil and Water Conservation SHI Li-wen(334)

水土保持学报

第28卷第4期 2014年8月

目次

自然降雨条件下减肥和资源再利用对东北黑土玉米地氮磷流失的影响	冯莉, 高强, 张志丹, 等(1)
不同土壤类型及施磷水平的水稻田面水磷素浓度变化规律	傅朝栋, 梁新强, 赵越, 等(7)
大兴安岭重度火烧迹地植被恢复过程中土壤入渗特征研究	王丽红, 辛颖, 赵雨森, 等(13)
基于 WEPP 模型的土地整理对长期土壤侵蚀的影响	刘世梁, 董玉红, 王军(18)
黄麻土工布对不同层次土体的水土保持效用分析	张勇, 丁树文, 万绍文, 等(23)
我国北方工业弃渣风蚀的风洞实验研究	贺志霖, 俎瑞平, 屈建军, 等(29)
作物残茬及不同生物篱的防风蚀效果研究	赵沛义, 妥德宝, 任永峰, 等(33)
马尾松人工林林冠层对氮、磷、硫的截留效应	张捷, 刘洋, 张健, 等(37)
应用 Gash 模型对青海高寒区华北落叶松人工林林冠截留的模拟	芦新建, 贺康宁, 王辉, 等(44)
微润灌溉土壤湿润体运移模型研究	薛万来, 牛文全, 罗春艳, 等(49)
植被格局对坡面流阻力影响的试验研究	张冠华, 刘国彬, 易亮(55)
荒岗地改造为核桃—苜蓿林后土壤水文效应的研究	袁晓龙, 王秀茹, 李保国, 等(60)
黄土高原高速公路护坡植物根系分布及力学特性研究	刘子壮, 高照良, 杜峰, 等(66)
杨柴根系提高土体抗剪特性的研究	格日乐, 左志严, 蒙仲举, 等(72)
北洛河流域不同地貌和植被类型区径流演变特征及控制因素	张亭亭, 张建军, 郭敏杰, 等(78)
激光平地对灌水均匀度及春小麦生长的影响	白岗松, 邹超煜, 于健, 等(85)
铵态氮肥和硝态氮肥施入时期对小麦增产的影响	苗艳芳, 吕静霞, 李生秀, 等(91)
覆膜对华北春玉米磷钾吸收、分配及水分利用率的影响	刘胜尧, 李志宏, 张立峰, 等(97)
不同氮肥形式对玉米氮、磷、钾吸收及氮素平衡的影响	纪德智, 王端, 赵京考, 等(104)
控释氮肥对土壤中无机氮淋溶分布及夏玉米产量的影响	胡斌, 李絮花, 闫童, 等(110)
控释氮肥对小麦—玉米轮作产量和土壤养分状况的影响	孙云保, 张民, 郑文魁, 等(115)
硫膜与树脂膜控释尿素对小麦不同生育时期土壤氮素的调控及其产量效应	郑沛, 宋付朋, 马富亮(122)
不同覆盖方式对旱地春玉米土壤水分及作物生产力的影响	解文艳, 周怀平, 杨振兴, 等(128)
化肥配施添加剂 NAM 对棉花干物质、产量及养分吸收的影响	李青军, 张炎, 胡国智, 等(134)
退耕湿地典型植被群落土壤氮分布及储量特征	肖春艳, 贺玉晓, 赵同谦, 等(138)
不同氮肥施用对双季稻稻田氨挥发及其动力学特性的影响	周亮, 荣湘民, 谢桂光, 等(143)
施氮水平对不同肥力土壤微生物学特性的影响	王楠, 王帅, 高强, 等(148)
根际施肥位置变化对桃树 ¹⁵ N 吸收分配的影响	肖元松, 彭福田, 王兆燕, 等(153)
地面覆盖对核桃园土壤理化性质的影响	孙萌, 宋新英, 李保国, 等(158)
保护性耕作对喀斯特山区旱地土壤理化性质的影响	何腾兵, 樊博, 李博, 等(163)
安溪崩岗洪积扇不同培肥方式的土壤理化效应	邓羽松, 丁树文, 梁传平, 等(168)
荒漠草原人工柠条林对土壤物理稳定性的影响	潘军, 宋乃平, 吴旭东, 等(172)
人工开沟面积大小对柏木低效林土壤有机碳含量及碳库管理的影响	王谢, 李贤伟, 范川, 等(177)
川中典型紫色丘陵区表层土壤有机碳密度空间变异及影响因素	胡玉福, 邓良基, 王玉婷, 等(183)
灌溉淋溶对土壤有机碳和无机碳及理化性质的影响	解怀亮, 王玉刚, 李彦, 等(188)
贺兰山西坡不同海拔梯度土壤活性有机碳分布特征及影响因子	孙海燕, 万书波, 李林, 等(194)
不同龄组杉木林土壤有机碳和理化性质的变化特征及其通径分析	曹小玉, 李际平, 张彩彩, 等(200)
保护性耕作对农田土壤碳库特性的影响	吕瑞珍, 熊琪, 李友军, 等(206)
神农架不同坡位 3 种林型土壤碳氮比分布特征	周志文, 潘剑君, 居为民, 等(210)
黑土团聚体碳化和小麦秸秆对其的激发效应	苗淑杰, 乔云发, 张福福(218)
滨海盐碱地不同土壤—树种系统中盐离子分布与运移	王合云, 李红丽, 董智, 等(222)
尿素对玉米不同时期重金属 Cu、Zn 和 Cd 吸收的影响	孙磊, 郝秀珍, 周东美, 等(227)
巨大芽孢杆菌与印度芥菜对 Cd 污染土壤的联合修复效果研究	王小敏, 纪宏伟, 刘文菊, 等(232)
畜禽有机肥对土壤—番茄体系作物产量和重金属平衡的影响	鲁洪娟, 李江遐, 陈海燕, 等(237)
小埠东橡胶坝对沂河临沂城区蓄水段沉积物重金属分布的影响	李宝, 孙春意, 张智慧, 等(243)
采煤沉陷区重金属分布特征及生态风险评价	郑刘根, 李超, 程桦, 等(247)
柠檬酸—1-酰胺二乙烯三胺的制备及其修复土壤重金属离子的行为	傅丽君, 杨磊, 林景阳(252)
黄土丘陵区浅沟表层土壤容重的空间变异特征	耿初, 张光辉, 李振炜, 等(257)
四面山 2 种林地大孔隙特征与优先流关系研究	魏虎伟, 程金花, 张洪江, 等(263)
造纸废水灌溉对湿地土壤 Na ⁺ 迁移的影响	苏芳莉, 吴新梅, 陈佳琦, 等(269)
蒸发条件下不同夹层土壤水盐动态特性研究	翟鹏辉, 杨丽晶, 李素艳, 等(273)
干旱区农田排水灌溉对枣树根区土壤水盐运移特性的影响	张军, 李宗阳, 李朝阳, 等(278)
2 种型号保水剂的特性及其应用研究	曹远博, 王百田, 魏婷婷, 等(283)
三峡水库蓄水后长江干支流及消落带泥沙颗粒特征分析	阎丹丹, 鲍玉海, 贺秀斌, 等(289)
丝栗栲、苦槠和青冈幼苗叶片光合生理指标对人工增温和施氮的响应	王致远, 赵广东, 王兵, 等(293)
制炭条件对生物炭碱性基团含量及酸性土壤改良效果的影响	赵牧秋, 金凡莉, 孙照炜, 等(299)
施硒对紫云英硒积累和硒形态的影响研究	周乾坤, 周守标, 孔娟娟, 等(304)
2 种施硒方式对黄山贡菊生长、生理特性及硒积累的影响	孔娟娟, 周守标, 孔功芳, 等(310)
外源 NO 对铜胁迫下番茄植物螯合肽及精氨酸代谢的影响	王建, 于世欣, 王逸芳, 等(317)
外源水杨酸对铜胁迫下烟草叶片碳代谢的影响	葛淑芳, 章艺, 梅笑漫, 等(324)
黄壤坡面表土磁化率变化特征分析	刘龙华, 李凤全, 王天阳, 等(330)
SCI 引用《水土保持学报》论文的分析	史丽文(334)

期刊基本参数: CN 61-1362/TV * 1987 * b * A4 * 336 * zh * P * ¥30.00 * 1000 * 62 * 2014-8

执行主编 付会芳

责任编辑 韦青侠

《水土保持学报》第六届(2013—2016年)编委会名单

编委会主任:李占斌

编委会成员(按姓氏笔划排序):

山 仑(院士)	马永清	王全九	王光谦(院士)	王 瑄
韦革宏 付会芳	邓良基	史衍玺	刘文兆 刘宝元	刘国彬
刘春生 刘 鹏	吕 军	成自勇	何丙辉 李占斌	李定强
李 勇 张旭东	张兴昌	张杨珠	张福锁 吴启堂	吴普特
沈其荣 余新晓	陈求稳	陈洪松	陈新平 林昌虎	杨 洁
卓慕宁 姚文艺	赵成义	赵雨森	郑粉莉 郑晓静(院士)	
宫渊波 阎百兴	黄占斌	黄炎和	康绍忠(院士)	梁 音
傅伯杰(院士)	曾 波	董治宝	程积民 雷廷武	雷国平
谭文峰 蔡体久	戴全厚			
Bingcheng Si(加拿大)		Changhui Peng(加拿大)		
Chi-hua Huang(美国)		D. E. Walling(英国)		
Franz Makeschin(德国)		Frédéric Darboux(法国)		
Ning-hu Su(澳大利亚)		Robert Horton(美国)		
Sang-Soo Kwak(韩国)		Yun Chen(澳大利亚)		

水土保持学报(双月刊 1987年创刊)

Shuitu Baochi Xuebao

第28卷第4期(总第133期) 2014年8月

JOURNAL OF SOIL AND WATER CONSERVATION

Bimonthly (Started in 1987)

Vol. 28 No. 4 (Total No. 133) Aug., 2014

主办单位	中国土壤学会 中国科学院水利部水土保持研究所	Sponsored by	Soil Science Society of China Institute of Soil and Water Conservation, CAS & MWR
主管单位	中国科学院	Administrated by	The Chinese Academy of Sciences
主 编	李 占 斌	Editor-in-Chief	LI Zhan-bin
编辑出版	《水土保持学报》编辑部 (陕西 杨凌 西农路26号 邮编 712100) (电话: 02987012707 传真: 02987012210)	Edited and Published by	Editorial Department of Journal of Soil and Water Conservation (Tel: 02987012707) (Xinong Road No. 26, Yangling, Shaanxi, China 712100)
印 刷	陕西杨凌森奥印务有限公司 (陕西 杨凌 西农路10号 邮编 712100)	Printed by	Shaanxi Yangling Senao Printing Co., LTD (Xinong Road No. 10, Yangling, Shaanxi, China 712100)
国内发行	陕西省邮政局	Distributed by	The Post Office of Shaanxi Province
订 购	全国各地邮电局(所)	Ordered by	Post Office all Over the Country
国外发行	中国国际图书贸易总公司 (北京 399 信箱 100044)	Foreign Distributed by	China International Book Trading Corporation (P. O. Box 399, Beijing, China 100044)

ISSN 1009-2242
CN 61-1362/TV

国内外公开发行

国内邮发代号: 52-150

国外发行代号: BM4722

E-mail: journal@ms.iswc.ac.cn

http://stbcbx.alljournal.com.cn

定价: 30元