



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30卷 第6期 Vol.30 No.6 **2016**



ISSN 1009-2242



9 771009 224032

中国土壤学会 主办
中国科学院水利部水土保持研究所

水土保持学报

第30卷第6期 2016年12月

目次

模拟降雨条件下坡度与地表糙度对径流产沙的影响	王添,任宗萍,李鹏,等(1)
人工模拟降雨下花岗岩崩岗区不同层次土体产流产沙特征	王秋霞,丁树文,邓羽松,等(7)
降雨强度和坡度对粘黄土坡面片蚀的影响	盛贺伟,郑粉莉,蔡强国,等(13)
人工模拟降雨供水水质对坡面产流产沙的影响	谢哲芳,张光辉,刘如心,等(18)
紫色土坡耕地耕层蓄水保土及耕性特征研究	丁文斌,蒋平,史东梅,等(24)
不同施肥管理模式对集雨区苗木地径流氮素流失的影响	叶照金,廖敏,黄宇,等(30)
柴河流域种植方式与沟渠类型对农田径流氮、磷含量的影响	吴晓妮,付登高,段昌群,等(38)
保护性耕作对坡耕地烟田水土流失的影响	郑好,管赛赛,王文亮,等(43)
闽北锥栗林经营过程中的水土流失防治效果研究	邹显花,黄彬彬,高清贵,等(47)
准东地区土壤风蚀影响因子分析与风蚀量估算	吴芳芳,曹月娥,卢刚,等(56)
库布齐沙漠含水率对风沙运动影响的风洞模拟	宗玉梅,俎瑞平,王睿,等(61)
不同近地表水文条件下矿山弃土对土壤细沟可蚀性的影响	杨超,苏正安,马菁,等(67)
重点生态功能区水土流失敏感性评价与分布研究	孙小涛,周忠发,陈全,等(73)
延安极端降雨特性分析及对梯田侵蚀灾害影响	李慧娟,高建恩,张元星,等(79)
枯落物覆盖对红壤坡地土壤水分特性的影响	聂小飞,郑海金,左继超,等(85)
不同水耕年限稻田土壤水分渗漏与保持特征	张君,易军,刘目兴,等(90)
土壤侵蚀物理模型中紫色土细沟侵蚀参数研究	王爱娟,符素华,朱小立(96)
咸淡水分配比例对盐碱土壤水分入渗特征与脱盐效果的影响	王乃江,高佩玲,赵连东,等(100)
浑河上游典型水源涵养林降雨再分配过程	于立忠,王利,刘利芳,等(106)
贵州石漠化地区地下漏失水土理化性质特征	李渊,刘子琦,吕小溪,等(111)
辽西半干旱区不同林龄大扁杏人工林的水分利用特征	刘丽颖,殷有,秦胜金,等(118)
白龙江上游5种典型灌木林枯落物蓄积量及持水特性	齐瑞,杨永红,陈宁,曹秀文,等(123)
密度调控对华北落叶松人工林枯落物水文特征的影响	白英辰,朱江,程小琴,等(128)
密云水库上游流域径流曲线模型的参数修订	何杨洋,王晓燕,段淑怀(134)
滴灌条件下秸秆覆盖与施肥对夏玉米水肥利用效率的影响	张婉晴,王秀茹,周杨(139)
不同分辨率DEM提取切沟形态特征参数的转化研究	吴红艳,郑粉莉,徐锡蒙,等(147)
山东省禹城市夏玉米生长期水分利用特征分析	王冰洋,陈报章,孙少波,等(153)
祁连山鲜黄小檗和甘青锦鸡儿灌丛冠层降雨再分配特征	万艳芳,刘贤德,马瑞,等(162)
长江上游定量遥感监测模型地形因子应用研究	张锦凰,刘丹强,姜小三,等(168)
地理因素辅助的黄土高原典型流域面雨量制图效果比较与评价	马晶,陈锡云,刘晓燕(174)
湿地退化条件下土壤碳氮磷储量与生态化学计量变化特征	叶春,蒲玉琳,张世熔,等(181)
凹凸棒土对土壤水分运动基本参数的影响	吴军虎,杨婷(188)
红壤侵蚀区崩岗土壤养分化学计量特征分异规律	姜超,陈志彪,陈志强,等(193)
冬小麦-夏玉米轮作制度下腐植酸氮肥去向与平衡	庄振东,李絮花,张健,等(201)
紫色土减磷配施有机肥的磷肥效应与磷素动态变化	韩晓飞,谢德体,高明,等(207)
互花米草入侵对闽江口湿地土壤磷形态及释放风险的影响	安婉丽,高灯州,刘晴晴,等(214)
不同复垦方式下土壤无机磷的空间分布特征	闵祥宇,李新举,刘宁,等(220)
不同碱性条件对苏打盐碱土无机磷组分的影响	耿玉辉,柴立涛(226)
植被恢复对亚热带侵蚀红壤团聚体养分分布的影响	区晓琳,陈志彪,姜超,等(230)
柠檬酸对蒙山茶园土壤微团聚体吸附-解吸 Cu^{2+} 的影响	李欣雨,夏建国,黄江伟,等(239)
三峡库区不同生境下桑树林地土壤结构稳定性与持水性能	于亚莉,史东梅,蒋平,等(246)
干湿循环对崩岗土体稳定性的影响	刘昌鑫,潘健,邓羽松,等(253)
紫色丘陵区不同土地利用方式土壤剖面微团聚体组成及分形特征	代文才,高明,王子芳,等(259)
丹江口库区不同土地利用方式土壤团聚体稳定性及分形特征	姜敏,刘毅,刘闯,等(265)
不同施肥措施对华北平原土壤有机碳的影响	齐中凯,赵诣,黄智勇,等(271)
后续施肥措施改变对红壤性水稻土团聚体有机碳组分的影响	张艺,尹力初,戴齐(278)
基于EMI的小泊湖退化湿地土壤盐分的空间分布	魏俊奇,李小雁,蒋志云,等(284)
黄河三角洲贝壳堤岛土壤盐分空间分异特征	董林水,宋爱云,孙景宽,等(289)
汉中荒草地整治后耕作层土壤颗粒分形特征	雷娜,韩霖昌,穆兴民(296)
乌鲁木齐市水磨河沿岸土壤重金属污染现状 & 评价	马辉英,杨晓东,龚雪伟,等(300)
喀斯特地区湘西州植烟土壤pH分布特征及其影响因素	邓小华,蔡兴,张明发,等(308)
石匣小流域整地措施对土壤剪切性质的影响	潘欣,王云琦,等(314)
广东省不同母质发育土壤颗粒分布的分形维数特征	姜坤,秦海龙,卢瑛,等(319)
光伏电站干扰下高寒荒漠草原区植被和土壤变化特征	李少华,高琪,王学全,等(325)
土地利用/覆盖变化对浑善达克沙地植被覆盖度的影响	元志辉,雷军,包刚,等(330)
4种植物生长旺盛期根系易受损的外力类型研究	李有芳,刘静,张欣,等(339)

期刊基本参数:CN 61-1362/TV * 1987 * b * A4 * 344 * zh * P * ¥30.00 * 1000 * 56 * 2016-12

执行主编 付会芳

责任编辑 韦青侠

编辑 王红红 董志刚

Journal of Soil and Water Conservation

Vol. 30 No. 6 Dce. ,2016

Contents

Effect of Slope Gradient and Surface Roughness on Runoff and Sediment Yield Under Simulated Rainfall	WANG Tian, et al(1)
Characteristics of Runoff and Sediment of Different Soil Layers in Granite Collapse Region Under Artificial Rainfall Simulation Condition	WANG Qiuxia, et al(7)
Effects of Rainfall Intensity and Slope Gradient on Sheet Erosion of Clay Loess	SHENG Hewei, et al(13)
Effects of Water Quality on Runoff and Sediment Yield in Rainfall Simulation	XIE Zhefang, et al(18)
The Study of Soil and Water Conservation and Tilt Characteristics of Cultivated-layer in Purple Soil Farmland	DING Wenbin, et al(24)
Influence of Different Management Mode of Fertilization on Nitrogen Losses in Runoff from Nursery Land in a Catchment Area	YE Zhaojin, et al(30)
Effects of Planting Modes and Agriculture Drainage Ditches on Runoff Nitrogen and Phosphorus Concentration in Chaihe Watershed	WU Xiaoni, et al(38)
Effects of Conservation Tillage on Water Loss and Soil Erosion in Sloping Fields of Planting Flue-cured Tobacco	ZHENG Hao, et al(43)
The Control Effect of Soil Erosion in <i>Castanea henryi</i> Plantation in the North of Fujian Province	ZOU Xianhua, et al(47)
Impact Factors of Soil Wind Erosion and Estimation of Soil Loss in Zhundong, Xinjiang	WU Fangfang, et al(56)
Effects of Moisture Content on Sand Flow in Hobq Desert; A Wind Tunnel Simulation	ZONG Yumei, et al(61)
Effects of Discard Soil in Mine on Soil Erodibility Under Different Hydrological States	YANG Chao, et al(67)
Sensitivity Evaluation and the Spatial Distribution of Soil Erosion in Key Ecological Function Areas; A Case of Leishan City of Guizhou	SUN Xiaotao, et al(73)
Analysis of Yan'an Extreme Rainfall Characteristics and Impacts of Erosion Disasters on Terraces	LI Huijuan, et al(79)
Effects of Litter Mulch on Soil Water Properties in Red Soil Sloping-land	NIE Xiaofei, et al(85)
Characteristics of Soil Water Percolation and Conservation in Different Aged Paddy Field	ZHANG Jun, et al(90)
Study on Rill Erosion Parameters of Purple Soil in the Physical Erosion Model	WANG Aijuan, et al(96)
Influence of Distribution Proportion Between Brackish and Fresh Water on Water Infiltration Characteristics and Desalting Effect in Saline-Alkali Soil	WANG Naijiang, et al(100)
Rainfall Redistribution Processes of Typical Water Conservation Forest in the Upper Reaches of the Hun River	YU Lizhang, et al(106)
Physicochemical Properties of Underground Leakage Water and Soil in Rocky Desertification Area of Guizhou, China	LI Yuan, et al(111)
Water Use Characteristics of Different Ages of <i>Prunus armeniaca</i> Plantations in Semi-arid Region of Western Liaoning Province	LIU Liying, et al(118)
Litter Storage and Water Holding Capacity Characteristics of Five Typical Shrubberies in the Upper Reaches of Bailongjiang River of Gansu Province	QI Rui, et al(123)
Effect of Thinning on Hydrological Characteristics of Forest Litter in <i>Larix principis-rupprechtii</i> Mayr Plantation	BAI Yingchen, et al(128)
Revision of CN Value and Initial Abstraction Ratio in the SCS-CN Model in Upper Reaches of Minyun Reservoir	HE Yangyang, et al(134)
Effects of Straw Mulching and Fertilization on Water and Nitrogen Use Efficiency of Summer Maize	ZHANG Wanqing, et al(139)
Transformation of Gully Morphological Characteristic Indicators Extracted from DEMs of Different Resolution	WU Hongyan, et al(147)
The Water-use Characteristics of Summer Corn During Growing Period in Yuchen, Shandong Province	WANG Bingyang, et al(153)
Characteristics of Rainfall Canopy Partitioning for <i>Berberis diaphana</i> and <i>Caragana tangutica</i> Shrub in the Qianlian Mountains	WAN Yanfang, et al(162)
Study on the Terrain Factor of the Quantitative Remote Sensing Model of the Upper Yangtze River	ZHANG Jinhuang, et al(168)
Comparison and Evaluation of Areal Precipitation Mapping Effectiveness with Consideration of Geographic Factors in the Loess Plateau	MA Jing, et al(174)
Ecological Stoichiometry Characteristics and Storage of Soil Carbon, Nitrogen and Phosphorus During the Wetland Degradation Process	YE Chun, et al(181)
Influence of Attapulgit on Basic Parameters of Soil Water Movement	WU Junhu, et al(188)
Variation of Stoichiometric Characteristics of Soil Nutrients in Collapse Mound of Eroded Red Soil Region	JIANG Chao, et al(193)
The Fate and Balance of Humic Acid Fertilizer in Winter Wheat-Summer Corn Rotation System	ZHUANG Zhendong, et al(201)
Effect of Reduced Phosphorus Fertilizer Combining Organic Fertilizers and Phosphorus Dynamics Changes in Purple Soil.....	HAN Xiaofei, et al(207)
Influences of <i>Spartina alterniflora</i> Invasion on Phosphorus Forms and Releasing Risk in Min River Estuarine Wetlands	AN Wanli, et al(214)
Spatial Distribution Characteristics of Soil Inorganic Phosphorus Under Different Reclamation Modes	MIN Xiangyu, et al(220)
Influence of Different Alkaline Conditions on Inorganic Phosphorus Components of Soda Saline Soil	GENG Yuhui, et al(226)
Effect of Vegetation Restoration on Nutrient Distribution Within Aggregate of Subtropical Eroded Red Soils	OU Xiaolin, et al(230)
Effect of Citric Acid on Adsorption and Desorption of Cu^{2+} in Microaggregate of Tea Plantation Soil in MengShan	LI Xinyu, et al(239)
Soil Stability and Water-retention Properties of Different Mulberry Habitats in the Three Gorges Reservoir Area, China	YU Yali, et al(246)
The Influence of Wet-dry Cycles on Collapsing Gully Soil Stability	LIU Changxin, et al(253)
Composition and Fractal Features of Soil Micro-aggregates under Different Land-use Types in Purple Hilly Area	DAI Wencai, et al(259)
Study on the Stability and Fractal Characteristics of Soil Aggregates Under Different Land Use Patterns in the Danjiangkou Reservoir	JIANG Min, et al(265)
Impacts of Different Fertilization Measures on Soil Organic Carbon in the North China Plain	QI Zhongkai, et al(271)
Effects of Following-up Fertilization Reforming on the Fractions of Aggregate-associated Organic Carbon in Red Paddy Soils	ZHANG Yi, et al(278)
Spatial Distribution of Soil Salinity in a Degraded Wetland of Xiaopo Lake Based on EMI	WEI Junqi, et al(284)
Spatial Variability of Soil Salinity in the Shell Ridge Island of the Yellow River Delta	DONG Linshui, et al(289)
The Fractal Characters of Plough Soil Particles of Waste-grassland After Renovation in Hanzhong	LEI Na, et al(296)
Status Quo and Evaluation of Heavy Metal Pollution in the Riparian Soils of the Shuimo River in Urumqi	MA Huiying, et al(300)
Distribution Characteristics of Tobacco-growing Soil pH and Its Influencing Factors in Karst Region of Xiangxi	DENG Xiaohua, et al(308)
Effects of Engineering Measures on Soil Shear Characteristics in Shixia Small Watershed	PAN Xin, et al(314)
Fractal Dimension of Particle-Size Distribution for Soils Derived from Different Parent Materials in Guangdong Province	JIANG Kun, et al(319)
Characteristics of Vegetation and Soil Property Changes by Photovoltaic Plant Interference in Alpine Desert Steppe	LI Shaohua, et al(325)
The Impacts of Land Use/Cover Change on Vegetation Coverage in the Otindag Sandland	YUAN Zhihui, et al(330)
The Vulnerability of the Roots by Exogenetic Forces of 4 Plants in Vigorous Growth Period	LI Youfang, et al(339)

《水土保持学报》第六届(2013—2016 年)编委会名单

编委会主任:刘宝元

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)		JOURNAL OF SOIL AND WATER CONSERVATION	
Shuitu Baochi Xuebao		Bimonthly (Started in 1987)	
第 30 卷第 6 期(总第 147 期) 2016 年 12 月		Vol. 30 No. 6(Total No. 147) Dec., 2016	
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	刘 宝 元	Editor-in-Chief	LIU Baoyuan
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	陕西森奥印务有限公司 (陕西 杨凌 西农路 10 号 邮编 712100)	Printed by	Shaanxi 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)