



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34卷 第5期 Vol.34 No.5 **2020**



ISSN 1009-2242



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34卷第5期 2020年10月

目次

切沟侵蚀研究进展与展望	张光辉(1)
永定河典型生态护岸措施下坡面产流产沙试验研究	郑雪慧,程金花,祁生林,等(14)
极端暴雨下小流域洪峰对植被和梯田的响应	刘元昊,韩剑桥,焦菊英,等(20)
耕作措施对坡耕地红壤地表径流氮磷流失的影响	毛妍婷,刘宏斌,郭树芳,等(26)
冻融作用对典型黑土土壤风蚀的影响	王一菲,郑粉莉,张加琮,等(34)
褐土与棕壤坡耕地细沟侵蚀发生的阶段性水沙变化	吕刚,贾晏泽,刘雅卓,等(42)
黄土丘陵沟壑区不同草本植物生长期植物纤维毯对沟道边坡产流产沙的影响	张平,王树森,马迎梅,等(49)
年径流系数变化特征及预测模型研究	王少丽,臧敏,王亚娟,等(56)
紫色土区植物篱篱前淤积带与篱下土坎土壤抗蚀性研究	王针针,刘泉宏,谌芸,等(61)
岩层倾向对喀斯特槽谷区地表/地下产流过程的影响	覃自阳,甘凤玲,何丙辉(68)
华北土石山区草地过滤带布设方式对坡面产流产沙的影响	张金阁,马岚,张栋,等(76)
基于人工降雨试验的残茬覆盖水土保持效益评价	杨静怡,谢云,辛艳(81)
不同施肥模式对稻田氮磷流失及产量的影响	缪杰杰,刘运峰,胡宏祥,等(86)
喀斯特高原山地贵阳市2008—2018年土壤侵蚀时空特征与侵蚀热点变化分析	王志杰,柳书俊,苏娜(94)
不同土地利用方式下红壤磷素径流流失特征	刘娟,张乃明,徐红娇,等(103)
基于厘米级无人机影像的水土保持措施精准识别	夏晨真,张月(111)
土石混合崩积体坡面细沟径流流速试验研究	林敬兰(119)
秸秆覆盖下桂北岩溶区水稻田土壤优先流特征	陈晓冰,韦灵,吴晗,等(124)
基于复合指纹法的岩溶洼地小流域泥沙来源解析	陈英,魏兴萍,张爱国,等(131)
华南花岗岩侵蚀区不同植被类型坡面土壤有机碳分布和团聚体稳定性	马东方,袁再健,吴新亮,等(137)
黄土丘陵沟壑区刺槐动态固坡效应	代智盛,王云琦,马超,等(145)
喀斯特森林近地表层覆盖对碳酸盐岩红土蒸发过程的影响	车陆禄,刘冬冬,杨娅,等(153)
灾害干扰受损区自然恢复初期土壤物理性质的变化特征	李松阳,余杭,罗清虎,等(162)
南亚热带5种典型人工林凋落物水文效应	王金悦,邓羽松,林立文,等(169)
太行山典型区域不同林分类型枯落物水文效应	赵鹏,马佳明,李艳茹,等(176)
马缨杜鹃不同花叶比例凋落物的分解程度和持水性能研究	吴迪,韩振诚,李苇洁,等(186)
残塬沟壑区不同果农复合模式对土壤理化性质及水源涵养功能的影响	孟凡旭,王树森,秦富仓,等(192)
桂北地区不同密度杉木林枯落物与土壤水文效应	林立文,邓羽松,李佩琦,等(200)
黄土高原水蚀风蚀交错区藓结皮覆盖土壤的蒸发特征	李渊博,李胜龙,肖波,等(208)
运用Gash修正模型对祁连山北麓中段青海云杉林降水截留的模拟	武秀荣,金铭,赵维俊,等(216)
不同配置农田防护林对田间土壤水分空间变异的影响	王栋,肖辉杰,辛智鸣,等(223)
晋西黄土区不同密度刺槐林土壤入渗特征及其影响因素	王珊珊,毕华兴,刘俊,等(231)
祁连山排露沟流域土壤有机碳空间变异性研究	芦倩,李毅,刘贤德,等(238)
内蒙古1990—2018年土地利用变化及生态系统服务价值	王宁,杨光,韩雪莹,等(244)
封育与放牧对黄土高原天然草地土壤化学计量特征的影响	张昊,李建平,王誉陶,等(251)
可溶性有机碳在盐碱水田土壤中的吸附特征及影响因素	汤洁,宫志宇,王静静,等(259)
亚热带湿润区樟树吸水的土层来源及研究方法对比	王锐,章新平,戴军杰,等(267)
模拟氮沉降对毛竹林土壤生化特性和酶活性的影响	陈向峰,刘娟,姜培坤,等(277)
密植减氮对三熟区不同肥力红壤稻田作物产量和耕层氮素的影响	王芳东,吕伟生,符明金,等(285)
控释氮肥对玉米秸秆腐解及潮土有机碳组分的影响	郑文魁,卢永健,邓晓阳,等(292)
氮肥基追比对小麦产量、土壤水氮分布及利用的影响	袁浩,王继唯,李赞虹,等(299)
不同种植年限苹果园土壤磷状况和无机磷组分特征	贾志航,吕明露,张鑫,等(308)
林地开垦对黄土区坡面土壤养分空间分布的影响	王昭,孔维波,姚毓菲,等(313)
神农架大九湖亚高山典型泥炭湿地土壤养分特征分析	斯南雍茜,葛继稳,李愈,等(321)
云南多雨烟区增密减氮对烤烟产质量及养分利用率的调控效应	余小芬,杨树明,邹炳礼,等(327)
水氮调控对设施土壤氨挥发特征的影响	刘阳阳,李亚芳,虞娜,等(334)
渭北旱塬矮化苹果园滴灌下土壤剖面水分和养分时空分布特征	王冲,秦亚旭,张珂,等(343)
滴灌条件下水土温度对覆砂土壤水热运移影响的数值模拟	虎军宏,赵文举,刘贵元,等(349)
W—OH材料对砒砂岩坡面土壤剥蚀率和微结构的影响	梁止水,刘豪伟,张立欣,等(355)
保水剂和微生物菌肥配施对旱作燕麦土壤微生物生物量碳、氮含量及酶活性的影响	田露,刘景辉,赵宝平,等(361)
不同土地利用方式对黑土胶散复合体的影响及与酸度的关系	丁慧仪,王淑华,王继红(369)

期刊基本参数:CN 61-1362/TV * 1987 * b * A4 * 376 * zh * P * ¥45.00 * 1000 * 51 * 2020-10

执行主编 付会芳

责任编辑

王红红

董志刚

Journal of Soil and Water Conservation

Vol 34 No 5 Oct.,2020

Contents

Advances and Prospects for Gully Erosion Researches	ZHANG Guanghui(1)
Study on Runoff and Sediment Yield on the Slope with Typical Ecological Riverbank Protection Measures in the Yongding River	ZHENG Xuehui , et al(14)
Response of Small Watershed Flood Peak to Vegetation and Terraces Under Extreme Rainstorm	LIU Yuanhao , et al(20)
Effects of Tillage Measures on Nitrogen and Phosphorus Loss from Surface Runoff in Red Soil on Slope Farmland	MAO Yanting , et al(26)
Effects of Freeze-thaw on Wind Erosion in the Typical Mollisol Region	WANG Yifei , et al(34)
Periodic Variation of Water and Sediment in Rill Erosion of Cinnamon Soil and Brown Soil Sloping Farmland	LÜ Gang , et al(42)
Effects of Plant Fiber Blankets of Different Herbaceous Plant Growth Stages on Runoff and Sediment Yield in the Loess Hilly and Gully Region	ZHANG Ping ,et al(49)
Research on Annual Runoff Coefficient Characteristics and Prediction Model	WANG shaoli , et al(56)
Study on Soil Anti-erodibility Between Sedimentation Zone in Front of Hedgerows and Ridge Behind Hedgerows in Purple Soil Area	WANG Zhenzhen , et al(61)
Influence of Strata Tendency on the Surface / Underground Runoff Production Process in Typical Karst Valley	QIN Ziyang , et al(68)
Effect of Grassland Filter Belt on Runoff and Sediment Yield on Slope in Earth-rocky Mountainous Area in North China	ZHANG Jinge , et al(76)
Evaluation of Soil and Water Conservation Benefits of Residual Cover Under Artificial Simulated Rainfall	YANG Jingyi , et al(81)
Effects of Different Fertilization Modes on Nitrogen and Phosphorus Loss and Yield in Paddy Fields	MIAO Jiejie , et al(86)
Spatial-Temporal Characteristics of Soil Erosion and Erosion Hotspots in Guiyang City of Karst Plateau Mountainous Region in 2008—2018	WANG Zhijie , et al(94)
Characteristics of Phosphorus Runoff Loss in Red Soil Under Different Land Use Patterns	LIU Juan , et al(103)
Accurate Identification of Soil and Water Conservation Measures Based on Centimeter-resolution UAV Images	XIA Chenzhen , et al(111)
<i>Experimental Study on Rill Runoff Velocity on the Slope of Soil-rock Mixed Colluvium</i>	LIN Jinglan(119)
The Characteristics of Preferential Flow on Straw Mulching of Paddy Field in the Karst Region of North Guangxi	CHEN Xiaobing , et al(124)
Analysis of Sediment Source in Small Watershed of Karst Depression Based on Composite Fingerprint Method	CHEN Ying , et al(131)
Soil Organic Carbon Distribution and Aggregate Stability on the Slope of Different Vegetation Types in Granite Erosion Region of South China	MA Dongfang , et al(137)
Dynamic Effect of Stabilizing Slope of <i>Robinia pseudoacacia</i> in Loess Hilly and Gully Region	DAI Zhisheng , et al(145)
Effect of Surface Cover on Evaporation Process of Carbonate Laterite in Karst Forest	CHE Lulu , et al(153)
Change Characteristics of Soil Physical Properties at the Initial Natural Recovery Stage in Disaster Disturbed and Damaged Areas	LI Songyang , et al(162)
Study on the Hydrological Effects of the Litters Layer from Five Typical Plantations in South Subtropics of China	WANG Jinyue , et al(169)
Hydrological Effects of Litter in Different Forest Types in the Typical Areas of Taihang Mountains	ZHAO Peng , et al(176)
Study on the Decomposition and Water Holding Capacity of Flower and Leaf Litter Mixtures of <i>Rhododendron delavayi</i>	WU Di , et al(186)
Effect of Different Fruit-Crop Compounds on Soil Physiochemical Properties and Soil-water Conservation in Gully Region of Plateau	MENG Fanxu , et al(192)
Study on the Effects of Litter and Soil Hydrology of Different Density <i>Cunninghamia lanceolata</i> Forests in Northern Guangxi	LIN Liven , et al(200)
Evaporation Characteristics of Soil Covered with Moss Crust in the Wind-water Erosion Crisscross Region of the Loess Plateau	LI Yuanbo , et al(208)
Application of Modified Gash Model to Simulate Rainfall Interception of <i>Picea Crassifolia</i> Forest in the Middle of the Northern Slope of Qilian Mountain	WU Xiurong , et al(216)
Effects of Different Configurations of Farmland Shelterbelt System on Spatital Variation of Soil Moisture Content	WANG Dong , et al(223)
Soil Infiltration Characteristics and Influencing Factors of <i>Robinia pseudoacacia</i> Linn .with Different Densities in Loess Region of Western Shanxi Province	WANG Shanshan , et al(231)
Study on Spatial Variability of Soil Organic Carbon in Pailugou Catchment of Qilian Mountains	LU Qian , et al(238)
Land Use Change and Ecosystem Service Value in Inner Mongolia From 1990 to 2018	WANG Ning , et al(244)
Effect of Enclosure and Grazing on the Soil Stoichiometry Characteristics of Natural Grassland on the Loess Plateau	ZHANG Hao , et al(251)
Adsorption Characteristics and Influence Factors of Dissolved Organic Carbon in Saline-alkali Paddy Fields	TANG Jie , et al(259)
Study on Water Uptake Layers of the <i>Cinnamomum camphora</i> and Comparison of the Methods of Water Uptake in Subtropical Humid Region	WANG Rui , et al(267)
Effects of Nitrogen Deposition on Soil Biochemical Properties and Enzymes Activities in Moso Bamboo (<i>Phyllostachys edulis</i>) Forest	CHEN Xiangfeng , et al(277)
Effects of High-density and Low-nitrogen on Crop Yield and Soil Nitrogen Storage in Plough Layer of Red Paddy Field with Different Soil Fertility in Triple-cropping Area	WANG Fangdong , et al(285)
Effects of Controlled-release Nitrogen Fertilizer on Decomposition of Maize Straw and Organic Carbon Fractions in Fluvo-aquic Soil	ZHENG Wenkui , et al(292)
Effects of the Ratio of Base-topdressing Nitrogen on Wheat Yield , Distribution and Utilization of Water and Nitrogen in Soil	YUAN Hao , et al(299)
Phosphorus Status and Inorganic Phosphorus Fractions in Apple Orchards Soil with Different Planting Years	JIA Zhihang , et al(308)
Effects of Forestland Reclamation on Soil Nutrients Spatial Distribution Along Slope in the Hilly Area of the Loess Plateau , China	WANG Zhao , et al(313)
Soil Nutrient Characteristics of Typical Sub-alpine Peat Wetland in Dajuhu of Shennongjia	SINAN Yongxi , et al(321)
The Regulatory Effects of Enhanced Density Combined with Reduced Nitrogen Fertilizer on Yield , Quality and Nutrient Use Efficiency of Flue-cured Tobacco in Rainy Areas , Yunnan Province	YU Xiaofen , et al(327)
Effects of Water and Nitrogen Regulation on Soil Ammonia Volatilization in Greenhouse	LIU Yangyang , et al(334)
The Spatial and Temporal Distributions of Moisture and Nutrients in Soil Profile of Dwarf Apple Orchards Under Drip Fertigation in Weiwei Dry -Land, China	WANG Chong , et al(343)
Numerical Simulation of the Influence of Water and Soil Temperature on Water and Heat Transfer of Sand Mulching Soil Under Drip Irrigation	HU Junhong , et al(349)
Effect of W—OH Material on the Denudation Rate and Microstructure of Pisha Sandstone Slope	LIANG Zhishui , et al(355)
Effects of Combination of Super Absorbent Polymer and Microbial Fertilizer on Soil Microbial Biomass Carbon , Nitrogen and Enzymes Activities of Oat Farmland in Dry Area	TIAN Lu , et al(361)
Effects of Different Land Uses on Black Soil Colloidal Complex and Its Relationship with Acidity	DING Huiyi , et al(369)