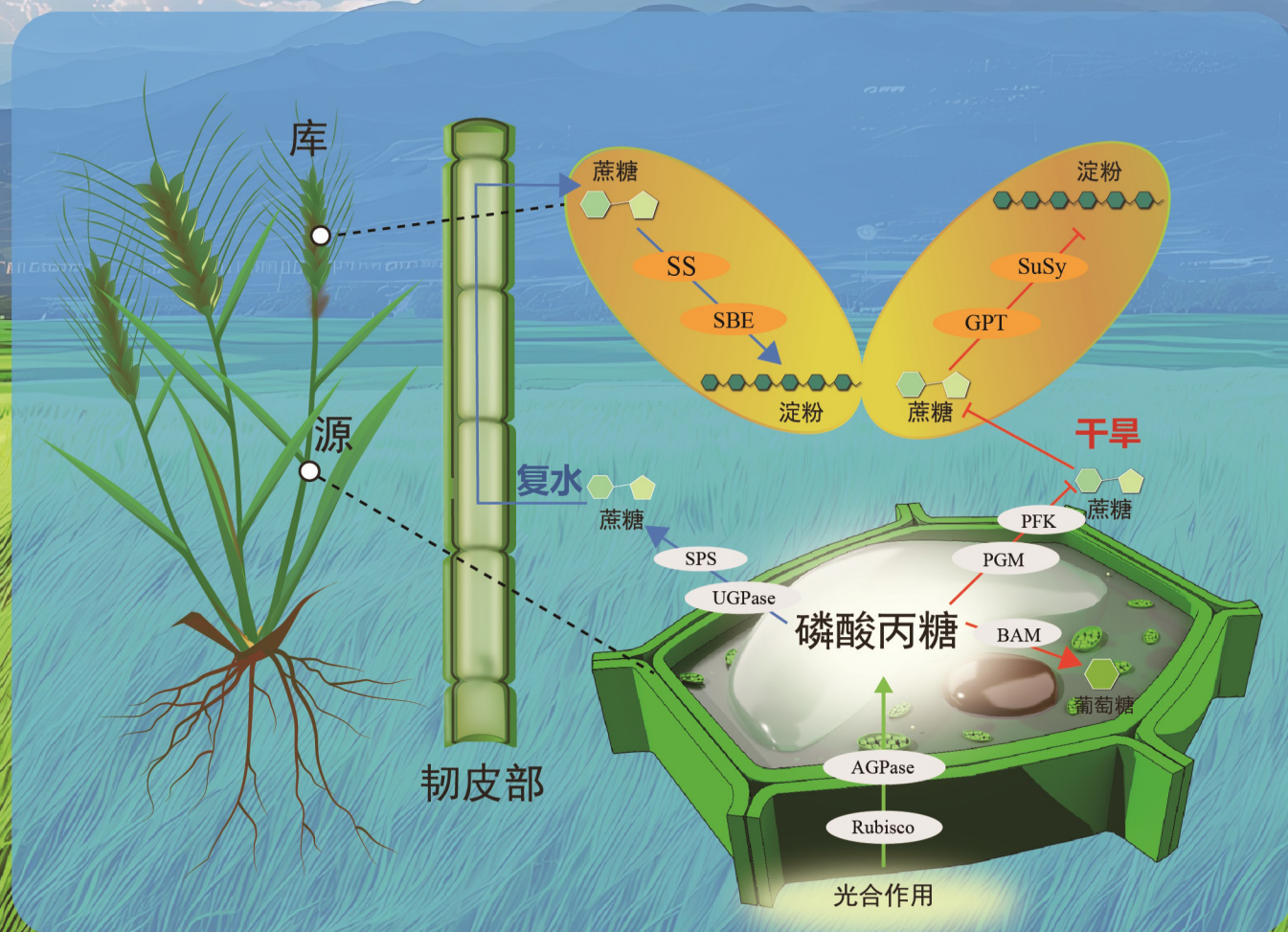


水土保持学报

JOURNAL OF SOIL AND WATER CONSERVATION

第38卷 第2期 Vol.38 No.2

2024年4月 Apr.2024



水土保持学报

Shuitu Baochi Xuebao

第 38 卷 第 2 期 2024 年 4 月

目 次

作物旱后复水补偿效应产生的源—库—流的响应及机制	李涛涛, 刘溢健, 叶佳丽, 等(1)
根土复合体力学效应及其模型构建研究进展与展望	谢祥荣, 陈正发, 朱贞彦, 等(13)
峰丛洼地岩溶裂隙水土漏失过程室内模拟试验	李娟, 邵明, 李法虎, 等(29)
草原干涸湖床地表粒度特征及其对沙尘释放的影响	李思瑶, 蒙仲举, 祁帅(38)
侵蚀性降雨对黑土坡耕地土壤侵蚀特征的影响	丁贵惠, 任忠政, 胡伟, 等(47)
降雨、汇流和坡度对黑土浅沟坡面侵蚀影响的试验研究	耿华杰, 郑粉莉, 赵录友, 等(57)
初始含水率和降雨能量对黑土团聚体溅蚀特征的影响	张转敏, 王彬, 饶伟, 等(68)
基于 Budyko 假设的三峡库区蓄水前后径流变化归因识别	陈蒙恩, 魏兴, 周育琳, 等(76)
黄河中游多沙粗沙区土壤水蚀时空变化及动态驱动力分析	张卓佩, 牛健植, 樊登星, 等(85)
RUSLE 模型对黄土高原退耕植被恢复坡面土壤侵蚀的模拟效果分析	廖俊, 焦菊英, 严增, 等(97)
东北黑土区冻融循环对切沟沟壁崩塌的影响	贾晨阳, 刘宏远, 于悦, 等(109)
模拟降雨条件下坡度和降雨强度对桂南崩积体侵蚀产沙的影响	常志勇, 杨以翠, 卢宝鹏, 等(118)
喀斯特槽谷区侵蚀坡面的土壤质量评价及障碍因子	石海龙, 张林星, 甘凤玲, 等(126)
基于高分 7 号卫星 DEM 的坡度坡长计算精度评价	赵云龙, 符素华(136)
积雪变化对东北农田黑土盐基离子及有效硅铝含量的影响	王子龙, 滕怀溟, 姜秋香, 等(147)
冻融条件下藻结皮覆盖对土壤结构的影响	钟志强, 曹文华, 马波, 等(157)
黄河流域近 40 年土地利用/覆被时空变化特征	廖美玉, 方秀琴, 蒋心远, 等(165)
基于土地利用变化的黄河上游四川段生态系统服务价值评价	许诺瑾, 丁兵兵, 余新晓, 等(178)
露天煤矿区不同生态措施对紫穗槐水分利用特征的影响	毕银丽, 柯增鸣, 高学江(190)
黄土塬区果园—农田交界带土壤水分分布及农田对果园的供水特征	韩晓阳, 王亚萍, 朱元骏, 等(197)
基于 PLUS 和 InVEST 模型的合肥市生态系统碳储量时空演变特征	智菲, 周振宏, 赵铭, 等(205)
气候和土地利用变化情景下闽江流域水沙变化模拟	余文广, 陈芸芝, 唐丽芳, 等(216)

四川栗子坪自然保护区不同海拔土壤氮组分垂直特征及季节动态 谭 豪,脱云飞,冯永钰,等(234)

基于 PLUS—InVEST 模型的福建省土地利用变化与碳储量评估 黄 韬,刘素红(246)

基于 InVEST 模型的蒲河流域景观格局及生境质量时空演变分析 刘佳依,许大为,徐 嘉(258)

基于 SDG15.3.1 的土地利用变化对生态系统服务价值的影响..... 张龙江,赵俊三,陈国平,等(268)

秦巴山区国土空间格局演变特征及驱动力分析 尹 力,魏 伟,薄立明,等(278)

近 30 年根河流域湿地景观格局变化及驱动因素分析 宋小梅,常晓丽,丁 辰(294)

干热河谷冲沟系统土壤团聚体对优先路径的影响 李珠宇,李志成,徐贵迁,等(304)

尕斯库勒湖地区沼泽草甸生长季土壤碳氮组分对增温施氮的响应 ... 卢朝阳,马维伟,杜佳团,等(316)

等高反坡台阶整地对不同耕作系统根土微生态的影响 鲁连欣,王克勤,李珠宇,等(326)

林下植被对寒温带兴安落叶松林土壤磷形态及有效性的影响 朱正青,满秀玲(339)

多种两步模式的三维制图方式在丘陵区林地土壤有机碳预测中的对比 杨华蕾,王晓晴,张紫薇,等(351)

不同降雨量及雨强条件下兰州南山人工侧柏林土壤水分入渗规律 鲁 睿,张明军,张 宇等(364)

氮磷添加对常绿阔叶林土壤团聚体有机碳及其与磷组分相关的影响 贺凌云,陈伏生,郑志宇,等(377)

菇渣有机肥配施脱硫石膏对黄河三角洲盐碱土活性有机碳及其敏感性的影响 李传福,徐家林,明玉飞,等(387)

残膜对土壤氮排放和氮肥利用效率的影响 阮国杰,胡 琪,师 倩,等(398)

不同厚度降解地膜对坡耕地溶解态氮磷流失的影响 王凯丽,张含玉,方怒放,等(406)

土壤盐胁迫对紫花苜蓿磷素利用的影响..... 赵 乐,苏 睿,何红花(414)

灌溉水盐分组成对番茄生长及土壤盐碱的影响 李金刚,何平如,陈 菁,等(423)

封面 1 图片:作物旱后复水补偿效应产生的源—库—流的响应及机制(由王仕稳供稿)

期刊基本参数:CN 61-1362/TV * 1987 * b * A4 * 436 * zh * P * ¥45.00 * 1000 * 40 * 2024-02

责任编辑 王红红 董志刚 编辑 张义凡 英文编辑 张曼

Journal of Soil and Water Conservation

Vol.38 No.2 Apr.,2024

Contents

Response and Mechanism of Source-Sink-Flow Caused by the Compensation Effect of Crop Rehydration After Drought	LI Taotao, LIU Yijian, YE Jiali,et al (1)
Research Progress and Prospect of Mechanical Effects and Model Construction of Root-soil Complex	XIE Xiangrong, CHEN Zhengfa, ZHU Zhenyan,et al (13)
Laboratory Simulation on Process of Soil and Water Leakage from Fissures in Karst Peak-cluster Depression	LI Juan, SHAO Ming, LI Fahu,et al (29)
Surface Particle Size Characteristics of Dry Lake Beds in Grasslands and Their Effects on Dust Release	LI Siyao, MENG Zhongju, QI Shuai (38)
Effects of Erosive Rainfall on Soil Erosion Characteristics of Black Sloping Farmland	DING Guihui, REN Zhongzheng, HU Wei,et al (47)
An Experimental Study on Effects of Rainfall, Inflow and Slope Gradient on Ephemeral Gully Slope Erosion in Chinese Mollisol Region	GENG Huajie, ZHENG Fenli, ZHAO Luyou,et al (57)
Impact of Initial Soil Moisture and Rainfall Energy on Splash Erosion Characteristics of Black Soil Aggregate	ZHANG Zhuanmin, WANG Bin, RAO Wei,et al (68)
Attribution Identification of Runoff Change Before and After Impoundment in the Three Gorges Reservoir Area Based on Budyko Hypothesis	CHEN Meng'en, WEI Xing, ZHOU Yulin,et al (76)
Analysis of Spatial and Temporal Evolution and Dynamic Driving Force of Soil Water Erosion in the Middle Reaches of the Yellow River in the Rich and Coarse Sediment Area	ZHANG Zhuopei, NIU Jianzhi, FAN Dengxing,et al (85)
Simulation Effect Analysis of RUSLE Model on Slope Soil Erosion Restored by Reclaimed Vegetation in Loess Plateau	LIAO Jun, JIAO Juying, YAN Zeng,et al (97)
Effects of Freeze-thaw Cycles on Gully Wall Collapse in the Black Soil Region of Northeast China	JIA Chenyang, LIU Hongyuan, YU Yue,et al (109)
Effects of Slope Gradient and Rainfall Intensity on Sediment Yield in the Colluvial Deposits of Southern Guangxi Under Simulated Rainfall	CHANG Zhiyong, YANG Yicui, LU Baopeng,et al (118)
Soil Quality Evaluation and Obstacle Factors of Erosion Slop in Karst Trough Valley Area	SHI Hailong, ZHANG Linxing, GAN Fengling,et al (126)
Evaluation of the Accuracy of Extraction of Slope and Length Based on DEM of GF-7 Satellite	ZHAO Yunlong, FU Suhua (136)
Effects of Snow Cover Change on the Content of Base Ions and Available Silicon and Aluminum of Black Soil in Northeast China	WANG Zilong, TENG Huaihao, JIANG Qiuxiang,et al (147)
Effect of Algae Crusting Cover on Soil Structure Under Freeze-Thaw Conditions	ZHONG Zhiqiang, CAO Wenhua, MA Bo,et al (157)
Spatiotemporal Characteristics of Land Use/Cover Changes in the Yellow River Basin Over the Past 40 Years	LIAO Meiyu, FANG Xiuqin, JIANG Xinyuan,et al (165)
Ecosystem Service Functions in the Upper Reaches of the Yellow River in Sichuan Based on Land Use Change Value Evaluation	XU Nuojin, DING Bingbing, YU Xinxiao,et al (178)
Effects of Different Ecological Measures on Water Use Characteristics of <i>Amorpha fruticosa</i> in Open Pit Coal Mine Areas	BI Yinli, KE Zengming,GAO Xuejiang (190)
Soil Water Distribution and Water Supply Characteristics of Farmland to Apple Orchard in Their Adjacent Areas on the Loess Tableland	HAN Xiaoyang, WANG Yaping, ZHU Yuanjun,et al (197)

Temporal and Spatial Evolution Characteristics of Carbon Storage in Hefei Ecosystem Based on PLUS and InVEST Models ... ZHI Fei, ZHOU Zhenhong, ZHAO Ming,et al (205)

Simulation of Runoff and Sediment Changes in the Minjiang River Basin Under Climate and Land Use Change Scenarios YU Wenguang, CHEN Yunzhi, TANG Lifang,et al (216)

Vertical Characteristics and Seasonal Dynamics of Soil Nitrogen Components at Different Elevations in Liziping Nature Reserve, Sichuan TAN Hao, TUO Yunfei, FENG Yongyu,et al (234)

Evaluation of Land Use Change and Carbon Storage in Fujian Province Based on PLUS-InVEST Model HUANG Tao,LIU Suhong (246)

Analysis of Landscape Patterns and Spatio-temporal Evolution of Habitat Quality in the PU River Basin Based on the InVEST Model LIU Jiayi, XU Dawei, XU Jia (258)

Impact of Land-use Change on the Value of Ecosystem Services Based on SDG 15.3.1 ZHANG Longjiang, ZHAO Junsan, CHEN Guoping,et al (268)

Analysis on the Evolution Characteristics and Driving Forces of Territorial Space Pattern in the Qinling-Daba Mountain Area ... YIN Li, WEI Wei, BO Liming,et al (278)

Analysis of the Changes in Wetland Landscape Pattern and Driving Factors in the Genhe Basin Over the Past 30 Years SONG Xiaomei, CHANG Xiaoli, DING Chen (294)

Effect of Soil Aggregate on Preferential Path in Gully Systemof Dry-hot Valley LI Zhuyu, LI Zhicheng, XU Guiqian,et al (304)

Response of Growing Season Soil Carbon and Nitrogen Components to Warming and Nitrogen Addition in Marshy Meadows of the Gahai Wetland Area LU Zhaoyang, MA Weiwei, DU Jianan,et al (316)

Effects of Contour Reverse-Slope Terrace on the Microecology of Rhizosphere in Different Farming Systems LU Lianxin, WANG Keqin, LI Zhuyu,et al (326)

Effects of Understory Vegetation on Soil Phosphorus Morphological and Availability in *Larix gmelinii* Forest in the Cold Temperate Zone ZHU Zhengqing, MAN Xiuling (339)

Comparison of Different Two-Step Models of Three-Dimensional Mapping Approaches for Soil Organic Carbon Prediction in Hilly Woodlands YANG Hualei, WANG Xiaoqing, ZHANG Meiwei,et al (351)

Soil Water Infiltration of Artificial *Platycladus orientalis* of Nanshan Mountain in Lanzhou Under Different Rainfall and Rainfall Intensity LU Rui, ZHANG Mingjun, ZHANG Yu,et al (364)

Effects of Nitrogen and Phosphorus Additions on Aggregate-associated Soil Carbon and Interactions with Phosphorus Fractions in Evergreen Broad-leaved Forest HE Lingyun, CHEN Fusheng, ZHENG Zhiyu,et al (377)

Effects of Mushroom Residue Organic Fertilizer Combined with Desulfurized Gypsum on Active Organic Carbon and Its Sensitivity in Saline-Alkali Soil of the Yellow River Delta LI Chuanfu, XU Jialin, MING Yufei,et al (387)

Effect of Plastic Film Residue on Soil Nitrogen Emissions and Nitrogen Use Efficiency RUAN Guojie, HU Qi, SHI Qian,et al (398)

Effects of Different Thickness of Degradable Plastic Film on the Loss of Dissolved Nitrogen and Phosphorus in Sloping Farmland WANG Kaili, ZHANG Hanyu, FANG Nufang,et al (406)

Effects of Soil Salt Stress on Phosphorus Utilization of Alfalfa ZHAO Le, SU Rui, HE Honghua (414)

Effects of Irrigation Water Salt Compositions on Tomato Growth and Soil Salinization LI Jingang, HE Pingru, CHEN Jing,et al (423)