

# 目次

## 综合治理

- 西南地区严重旱灾的人为因素初探 ..... 穆兴民, 王飞, 冯浩, 等 (1)
- 渭河关中段近 400 a 来洪涝灾害变化研究 ..... 赵景波, 龙腾文, 陈颖 (5)
- 泾河泾阳段高河漫滩沉积元素与化合物指示的洪水事件 ..... 顾静, 周杰, 赵景波 (9)
- 贵州省喀斯特石漠化历史演变过程研究及其意义 ..... 程安云, 王世杰, 李阳兵, 等 (15)
- 河南省土地覆盖变化的时空特征分析 ..... 赵晓丽, 汪潇, 张增祥, 等 (24)
- 纵向岭谷区高速公路沿线生态系统健康评价 ..... 刘杰, 陈帆, 耿海清, 等 (31)
- 黄土丘陵区山坡道路防蚀措施设计与效益分析 ..... 李波, 徐学选, 张良德, 等 (37)
- 小流域坡耕地治理措施及生态效益研究 ..... 湛芸, 何丙辉, 罗雷 (41)
- 京郊河溪岸边带生态恢复适宜性评价 ..... 冯泽深, 高甲荣, 娄会品, 等 (46)
- 山西省潞安矿区生态恢复模式研究 ..... 王世东, 郝成元, 郭增长, 等 (51)
- 基于向量模法的陕南地区水环境承载力评价 ..... 米雪慧, 王小文, 徐杰峰, 等 (56)
- 人工修复措施对严重退化红壤固碳效益的影响 ..... 黄荣珍, 樊后保, 李凤, 等 (60)
- 淳沔河流域平原区人类活动对浅层地下水干扰程度量化研究 ..... 王金哲, 张光辉, 聂振龙, 等 (65)
- 近 20 a 来嫩江流域土壤退化的初步研究 ..... 王凌河, 胡东来, 严登华, 等 (70)
- 干旱区垄作不同覆盖条件对花生水分利用的影响 ..... 王以兵, 雒天峰, 张新民, 等 (75)
- 湖北省耕地变化与粮食生产的特征分析 ..... 汤进华 (79)
- 陕北黄土丘陵沟壑区生态修复与农村聚落耦合发展初探 ..... 惠怡安, 徐明 (83)

## 试验研究

- 松花江流域侵蚀产沙演变特征分析 ..... 焦剑, 赵登峰 (87)
- 喀斯特地区不同土地利用类型土壤侵蚀特征研究 ..... 高华端, 孙泉忠, 袁勇 (92)
- 塔克拉玛干沙漠夏季保墒措施对沙拐枣幼林土壤水分及林木生长的影响 ..... 孙旭伟, 李生字, 徐新文, 等 (97)
- 开封市城区土地利用动态变化及其驱动因子分析 ..... 陈志, 翟文侠, 宋成舜 (103)
- 子午岭森林群落中草本植物的结构特征研究 ..... 范文娟, 程积民, 张继敏, 等 (108)
- 太行山花岗岩片麻岩区坡面产流的影响因素分析 ..... 肖登攀, 杨永辉, 韩淑敏, 等 (114)
- 不同雨强条件下坡度对坡地径流及溶质运移的影响 ..... 张小娜, 冯杰, 高永波, 等 (119)
- 轮作及不同施肥措施对春玉米生长、产量及水分利用的影响 ..... 张益望, 刘文兆, 王俊, 等 (124)
- 土壤扩蓄增容肥对冬小麦棵间蒸发和水分利用效率的影响 ..... 王翠翠, 冯浩, 杜健 (129)
- 黄土高原子午岭人工油松林碳储量与碳密度研究 ..... 孟蕾, 程积民, 杨晓梅, 等 (133)
- 喀斯特山区退耕地水稳性团聚体演变特征及土壤养分效应 ..... 董亚辉, 戴全厚, 邓伊哈, 等 (138)
- 紫色土流失土壤的颗粒特征及影响因素 ..... 彭怡, 王玉宽, 傅斌, 等 (142)
- 安徽省几种主要土壤有机碳含量及其组分研究 ..... 石玲, 戴万宏 (145)
- 陕西黄土区近 30 a 典型塬土剖面肥力演变研究 ..... 摄晓燕, 谢永生, 王辉, 等 (150)
- 北京地区表层土壤分形特征研究 ..... 郭中领, 符素华, 王向亮, 等 (154)
- 鄱阳湖沙山地区沙化土地特征及成因分析 ..... 丁明军, 郑林, 聂勇 (159)
- 聚丙烯酸钠对土壤水分入渗影响的模拟研究 ..... 董勤各, 冯浩, 庄文化 (164)
- 毛乌素沙地东南缘沙漠化过程中土壤理化性质分析 ..... 杨梅映, 曹明明, 朱志梅, 等 (169)
- 黄土侧向变形的真三轴试验研究 ..... 王瑞瑞, 骆亚生, 赵春明, 等 (173)

## 水土保持与应用技术

- 三维激光扫描仪在土壤侵蚀监测中的应用 ..... 马玉凤, 严平, 时云莹, 等 (177)
- 基于 CDMA1X 的无线传输自动气象站系统的构建 ..... 田佳, 骆汉, 田涛, 等 (180)
- 陆面潜在蒸散计算模型在甘肃省黄土高原的适用性研究 ..... 杨小利, 蒲金涌, 马鹏里, 等 (184)
- 新型土壤容重取样器的研制与应用 ..... 黄毅, 邹洪涛, 虞娜, 等 (190)
- 近 46 a 来河西走廊绿洲最高、最低气温变化的区域特征及突变分析 ..... 马亚兰, 刘普幸, 霍华丽 (192)
- 塔克拉玛干沙漠腹地人工绿地生长季的小气候特征 ..... 严坤, 李生字, 雷加强, 等 (198)
- 基于 DEM 的流域坡度坡长因子计算方法研究初报 ..... 杨勤科, 郭伟玲, 张宏鸣, 等 (203)
- 可移动水土流失实验室系统的原理及特点 ..... 师哲, 赵健, 张平仑 (207)
- 陕西省太阳辐射及其日照时数的时空变化特征 ..... 吴林荣, 王娟敏, 刘海军, 等 (212)
- 贵州省西南部麦岗水库沉积物的<sup>137</sup>Cs 和<sup>210</sup>Pb 测年与沉积速率研究 ..... 李春梅, 王红亚 (215)
- 种子流失与迁移的人工降雨模拟试验方法研究 ..... 韩鲁艳, 焦菊英, 雷东 (220)
- SCS 模型在泥石流多发区降雨—径流模拟中的应用 ..... 郭晓军, 崔鹏, 庄建琦, 等 (225)
- 基于 DEM 的黄土高原小流域规划空间数据挖掘 ..... 刘万青, 陈云明, 张超越, 等 (229)
- 废黄河沙土区土壤侵蚀量分析 ..... 吕其浪 (233)
- SPOT VEGETATION S10 影像云和雪盖的检测与处理 ..... 刘咏梅, 王超, 于冬 (236)
- 抚仙湖流域磷矿开采废弃地恢复元江栲栳群的树种配置研究 ..... 赵敏慧, 杨礼攀, 杨中宝, 等 (239)

期刊基本参数: CN61-1094/X \* 1981 \* b \* A4 \* 244 \* zh \* P \* 1500 \* ¥20.00 \* 52 \* 2010-04

执行主编 王修 编辑 琚彤军, 吴乃宁 英文编辑 刘炳武

# Contents

Human impacts on severe drought in southwest region of China .....	MU Xing-min, et al (1)
Scale and temporal properties of flood sequence of Guanzhong reach of Weihe River during the last 400 years .....	ZHAO Jing-bo, et al (5)
Flood events indicated by elements and compounds of sediment in Jingyang reach of Jinghe River .....	GU Jing, et al (9)
Evolution history of karst rocky desertification and its significance in Guizhou Province .....	CHEN An-yun, et al (15)
Spatiotemporal characteristics of land cover change in He'nan Province .....	ZHAO Xiao-li, et al (24)
Ecosystem health assessment on highway roadsides in longitudinal range-gorge region .....	LIU Jie, et al (31)
Rural road erosion controlling design and its performance analysis in the loess hilly region .....	LI Bo, et al (37)
Control measures and ecological benefits on sloping farmland in a small watershed .....	CHEN Yun, et al (41)
Suitability assessment for ecological restoration of rural riparian zone in Beijing City .....	FENG Ze-shen, et al (46)
Eco-environmental restoration models in Lu'an mining area of Shanxi Province .....	WANG Shi-Dong, et al (51)
Evaluation of water environment carrying capacity in Southern Shaanxi Province based on vector norm method .....	LAI Xue-hui, et al (56)
Effects of human induced vegetation rehabilitation on carbon fixation benefit in seriously degraded red soil .....	HUANG Rong-zhen, et al (60)
Disturbing degree of mankind activities to groundwater in the Hutuo River valley area .....	WANG Jin-zhe, et al (65)
Soil degradation in Nenjiang basin during recent twenty years .....	WANG Ling-he, et al (70)
Impact on peanut growing under different mulch conditions in arid area .....	Wan Yi-bing, et al (75)
Arable land change and grain production in Hubei Province .....	TANG Jin-hua (79)
Coupling development of ecological restoration and rural settlement in the hilly-gully region of North Shaanxi Province .....	HUI Yi-an, et al (83)
Evolution of sediment yield in the Songhua River basin .....	JIAO Jian, et al (87)
Characteristics of soil erosion for different land types in karst areas .....	GAO Hua-duan, et al (92)
Effects of different soil moisture conserving treatments on soil moisture and growth characteristics of <i>Calligonum mongolicum</i> in summer in hinterland of Taklimakan Desert .....	SUN Xu-wei, et al (97)
Urban landuse dynamic change and its driving factors in Kaifeng City .....	CHEN Zhi, et al (103)
Structural characteristics of herbage under forest plantations in Ziwuling Mountains .....	FAN Wen-juan, et al (108)
Factors influencing surface runoff in the granitic gneiss of Taihang Mountains .....	XIAO Deng-pan, et al (114)
Influences of slope on runoff and concentration and solute transport under different rainfall intensities .....	ZHANG Xiao-na, et al (119)
Effects of long-term rotation and fertilization on the growth, yield and water use of spring maize .....	ZHANG Yi-wang, et al (124)
Effects of soil amendment fertilizer on soil evaporation and water use efficiency of winter wheat .....	WANG Cui-cui, et al (129)
Artificial <i>Pinus tabulaeformis</i> carbon storage and density in Ziwuling forest area on the Loess Plateau .....	MENG Lei, et al (133)
Dynamics of soil water stable aggregates and their relationship with soil nutrients on converted land in karst areas .....	DONG Ya-hui, et al (138)
Particle characteristics and influencing factors of eroded purple soil .....	PENG Yi, et al (142)
Soil organic carbon and its fraction in Anhui Province .....	SHI Ling, et al (145)
Changes of fertility in typical Lou soil profiles during recent 30 years in the loess area of Shaanxi Province .....	SHE Xiao-yan, et al (150)
Fractal dimension characteristic of soil particle-size distribution in Beijing region .....	GUO Zhong-ling, et al (154)
Characteristics and driving factors of sandy desertification in the sandy hill area of Poyang Lake .....	DING Ming-jun, et al (159)
Effects of sodium polyacrylate on water infiltration into soil .....	DONG Qin-ge, et al (164)
Soil physical and chemical properties in the process of desertification on the southeastern edge of Mu Us sandy land .....	YANG Mei-huan, (169)
Deformation characteristics of loess by true triaxial test .....	WANG Rui-rui, et al (173)
Application of laser 3D scanner in soil erosion research .....	MA Yu-feng, et al (177)
Constructing automatic weather station system based on CDMA1X wireless transmission China .....	TIAN Jia, et al (180)
Adaptability of potential evapotranspiration estimation models in the Loess Plateau of Gansu Province .....	YANG Xiao-li, et al (184)
Manufacture and implication of new soil bulk sampler .....	HUANG Yi, et al (190)
Regional characteristics and abrupt change of maximum and minimum temperatures in Hexi Corridor Oasis during the past 46 years .....	MA Ya-lan, et al (192)
Microclimatic characteristics over artificial shelter forest land in growing season in hinterland of Taklimakan Desert .....	YAN Kun, et al (198)
Method of extracting LS factor at watershed scale based on DEM .....	YANG Qin-ke, et al (203)
Working principle and basic characteristics of removable laboratory system for soil and water loss measurement .....	SHI Zhe, et al (207)
Spatiotemporal variation of solar radiation and sunshine hours in Shaanxi Province .....	WU Lin-rong, et al (212)
<sup>137</sup> Cs and <sup>210</sup> Pb dating and inference of sedimentation rate for Maigang reservoir in southwest Guizhou Province .....	LI Chun-mei, et al (215)
Method of rainfall simulation experiment for seed loss and displacement .....	HAN Lu-yan, et al (220)
SCS model and its application to rainfall—runoff in debris activity region .....	GUO Xiao-jun, et al (225)
Spatial data mining for watershed planning on the Loess Plateau based on DEM datasets .....	LIU Wan-qing, et al (229)
Soil erosion from disused sandy soil districts of the Yellow River .....	LU Qi-lang (233)
Cloud and snow detecting and removing in SPOT VEGETATION images .....	LIU Yong-mei, et al (236)
Species disposition of <i>Castanopsis orthacantha</i> community in the abandoned phosphate mining in Fuxian Lake watershed .....	ZHAO Min-hui, et al (239)