

目 次

试验研究

青海木里江仓煤矿区高寒湿地腐殖质层的形成过程 安福元, 高志香, 李希来, 等 (1)

鄱阳湖区典型堤防不同植草护坡产流产沙特征试验研究 肖胜生, 胡志坚, 张继松, 等 (10)

模拟降雨条件下红壤坡面侵蚀产沙水动力学特征 林庆明, 丁文峰, 张长伟, 等 (16)

长江源区沱沱河流域 1996—2011 年径流特征及其对降水的滞后效应 罗 玉, 秦宁生, 李金建, 等 (22)

2001—2016 年毛乌素沙地植被的生长状况 曹艳萍, 庞营军, 贾晓红 (29)

保水剂对 4 种典型荒漠植物种子萌发的影响 马 静, 单立山, 王洋, 等 (38)

典型复垦工业场地土壤垂直剖面重金属污染特征及潜在生态风险 徐志豪, 吴 健, 王 敏, 等 (43)

土壤理化性质和微生物活性对水田改果园的动态响应 杨东伟, 章明奎, 刘千千, 等 (48)

不同深度秸秆还田对黄棕壤氮素和微生物生物量碳氮的影响 张 奇, 陈 粲, 陈效民, 等 (56)

围封对内蒙古希拉穆仁草地物种多样性的影响 王 健, 张瑞强, 阿比亚斯, 等 (62)

毛乌素沙地南缘降水入渗滞后补给与模型参数敏感性分析 王 锴, 杨泽元, 袁 悦, 等 (68)

祁连山南坡不同植被类型土壤粒度特征 袁 杰, 曹生奎, 曹广超, 等 (76)

河北省太行山 4 种经济林林冠层的水文效应 刘希庆, 邢晓光, 刘凤婵, 等 (83)

氮磷肥施用对保水剂钝化土壤重金属铅镉效果的影响 钟 心, 钟 建, 黄占斌 (88)

茂兰喀斯特森林自然保护区凋落叶分解动态 窦百强, 容 丽, 俞国松, 等 (94)

水保监测与应用技术

基于遥感生态指数的神东矿区生态环境变化监测 岳 辉, 刘 英, 朱 蓉 (101)

基于未确知—集对耦合的生态护坡工程质量评价体系及应用 万炳彤, 鲍学英, 李爱春 (108)

2013—2017 年延河水质变化及其影响因素 裴晓龙, 丁 强, 杨玉珍, 等 (115)

环刀法测定土壤水分特性的精度及其影响因素 李朝英, 郑 路 (118)

基于 CSLE 模型的天山北坡西白杨沟流域土壤侵蚀定量评价 卢 刚 (124)

江西省生产建设项目弃土弃渣土壤侵蚀定量研究 房焕英, 谢颂华, 黄鹏飞, 等 (131)

不同生根剂对假俭草茎段撒播生根效应的影响 葛佩琳, 汤崇军, 叶忠铭, 等 (138)

延安市宝塔区治沟造地工程分布规律研究 王晓晨, 许 强, 赵宽耀, 等 (141)

第四类脲酶抑制剂对土壤脲酶活性和微生物量的影响 王趁义, 陈仙仙, 黄兆玮, 等 (149)

基于 GIS 和 LID 的雨水集蓄技术研究

——以山东省滨河小镇营丘镇为例 王浩程, 王 琳, 卫宝立 (155)

基于 AHP-模糊综合评价方法的拉萨市周边溜砂坡稳定性评价 刘宁波, 田荣燕, 王海波, 等 (161)

调亏灌溉下菘蓝耗水量变化特征 王玉才, 张恒嘉, 邓浩亮, 等 (167)

焦岗湖本土水生植物的水质净化试验 陈结平, 胡友彪, 张治国, 等 (172)

沂蒙山区不同抽样密度土壤侵蚀因子估算精度评价 齐 斐, 苏新宇, 黎家作, 等 (179)

青藏高原地区 3 种全球 DEM 精度对不同地形因子的响应 高志远, 谢元礼, 王宁练, 等 (184)

基于最小累积阻力模型的福建省南平市延平区生态安全格局构建 韩世豪, 梅艳国, 叶持跃, 等 (192)

基于 MOD16 产品的怒江流域中上游蒸散发分布特征研究 范雪梅, 罗 贤, 季 濂, 等 (199)

基于 GIS 和 FloodArea 水动力模型的重庆市山洪灾害风险区划 刘晓冉, 康 俊, 王 颖, 等 (206)

安徽省郎溪县农村庭院植物的组成与多样性 谢春平, 徐 开, 刘大伟, 等 (212)

综合研究

基于 EMD 和 TFP 的河北省粮食产量趋势性影响因素定量研究 李新旺, 许 焯 (221)

2007—2016 年贵州省水资源生态足迹及演化特征 周子琴, 苏维词, 郑群威 (227)

福州市生态用地保护格局的优化途径 李国煜, 林丽群, 罗栋桑, 等 (234)

毛乌素沙地玉米不同种植年限砒砂岩与沙复配土壤有机质与全氮的关系
..... 张海欧, 王欢元, 孙婴婴 (242)

基于 DPSIR-TOPSIS 模型的江苏省生态承载力评价及障碍因素诊断 顾家明, 胡卫卫, 田素妍 (246)

喀斯特地区平水期水质污染综合分析
——以贵州省白云岩喀斯特世界自然遗产地为例 张尘月, 刘子琦, 刘肇军, 等 (253)

南方山丘区水源地土地利用结构对河库水质的影响
——以湖溪水库流域为例 陈丰禹, 王为木, 刘 慧, 等 (260)

人为干扰对西天山野果林群落结构和物种多样性的影响 方紫妍, 李林瑜, 艾克拜尔·毛 拉, 等 (267)

河西走廊水资源变化与生态环境时空关联分析 李晓婧, 白艳萍, 李 萌, 等 (275)

基于生态足迹模型的资源型城市生态承载力评价
——以黑龙江省大庆市为例 赵 正, 宁 静, 周非飞, 等 (281)

乡村振兴背景下空心村土地整治潜力评价
——以山东省五莲县为例 王 扬, 翟腾腾, 尹登玉 (288)

鄂豫地区耕地资源变化时空特征及其影响因素 韦宇婵, 张丽琴 (293)

九寨沟地震次生灾害风险及对自然保护区和自然遗产地的影响 李孝永, 杜国明, 匡文慧 (301)

河北省生态环境支撑区生态系统服务价值评估 王彦芳, 刘 敏, 郭 英, 等 (309)

农村土地整治与美丽乡村建设的耦合关系
——以南京市为例 李 炎, 张金池, 陈佩弦, 等 (317)

封面图片说明 (图片提供者): 泰国土壤侵蚀与水土保持措施

左上: 陡坡林地开垦造成的土壤侵蚀 (张家琼); 右上: 坡耕地顺坡耕作易造成土壤侵蚀 (张家琼);
左下: 农田道路防护的工程措施 (Chinapatana Sukvibool); 右下: 利用香根草修复水生态 (Chinapa-
tana Sukvibool)

期刊基本参数: CN61-1094/X * 1981 * b * A4 * 324 * zh * P * 800 * ¥40.00 * 49 * 2019-4

执行主编 王修

责任编辑 琚彤军, 聂小妮

英文编辑 杜峰, 等

Contents

Experimental Research

- Forming processes of humus layers of alpine wetland and its of open-pit coal mine spoil heaps of Muli -
Jiangcang in Qinghai Province An Fuyuan, et al (1)
- Experimental study on surface runoff and sediment yield characteristics under different slope protection
modes of a typical dike in Poyang Lake District Xiao Shengsheng, et al (10)
- Hydrodynamic characteristics of runoff in red slope erosion process under simulated rainfall experiments
..... Lin Qingming, et al (16)
- Runoff characteristics and hysteresis to precipitation in tuotuo-he river basin in source region of yangtze
river during 1996—2011 Luo Yu, et al (22)
- Vegetation growth in mu us sandy land from 2001 to 2016 Cao Yanping, et al (29)
- Effect of water retaining agent on seed germination of four typical desert plants Ma Jing, et al (38)
- Characteristics and potential ecological risk of heavy metal in vertical soil profiles of typical reclaimed
industrial sites Xu Zhihao, et al (43)
- Response of soil physicochemical properties and microbial activity on land-use conversion from paddy
field to orchard farm Yang Dongwei, et al (48)
- Effects of straw returning to different soil depths on soil nitrogen and microbial biomass carbon and
nitrogen in yellow brown soil Zhang Qi, et al (56)
- Effects of enclosure on species diversity in xilamuren grassland, inner mongolia Wang Jian, et al (62)
- Lagging infiltration recharge in south margin of Mu Us sandy land and parameter sensitivity analysis of
model Wang Kai, et al (68)
- Soil particle size characteristics under different vegetation types on southern slope of Qilian Mountains
..... Yuan Jie, et al (76)
- Canopy hydrological effects of four economic forests in taihang mountain, Hebei Province
..... Liu Xiqing, et al (83)
- Effect of nitrogen and phosphorus fertilizer on passivation of heavy metal Pb and Cd by super absorbent
polymer in soil Zhong Xin, et al (88)
- Decomposition dynamics of leaf litters in Maolan Karst Forest Natrue Reserve ... Dou Baiqiang, et al (94)
- Soil and Water Conservation Monitoring and Applied Technology**
- Monitoring ecological environment change based on remote sensing ecological index in Shendong mining
area Yue Hui, et al (101)
- Quality evaluation system and application of ecological slope protection project based on unascertained-
set pair coupling Wan Bingtong, et al (108)
- Change and influencing factors of water quality in Yanhe River from 2013 to 2017 Pei Xiaolong, et al (115)
- Influencing factors in measurement accuracy of soil water by ring knife method
..... Li Chaoying, et al (118)
- Quantitative assessment of soil erosion in west Baiyanggou watershed on north slopes of Tianshan
Mountains base on CSLE model Lu Gang (124)
- Quantitative study on soil erosion of waste residue from production and construction project in Jiangxi
Province Fang Huanying, et al (131)
- Effects of different rooting agent on rooting performance in sowing of stem segments of *Eremochloa*
ophiuroides Ge Peilin, et al (138)
- Distribution rule of govening valleys project in Baota District of Yan'an City Wang Xiaochen, et al (141)
- Effects of fourth-type of urease inhibitors on soil urease activity and microbial growth
..... Wang Chenyi, et al (149)
- Research on rainwater collection technology based on GIS and LID
—A Case in Yingqiu Town, Riverfront Town of Shandong Province Zhang Naiming, et al (155)

Stability evaluation of sand-sliding slope around Lhasa City based on AHP-fuzzy comprehensive evaluation method Liu Ningbo, et al (161)

Characteristics of *Radix isatidis* water consumption in regulated deficit irrigation Wang Yucai, et al (167)

Water purification of native aquatic plants in Jiaogang Lake Chen Jieping, et al (172)

Estimation precision loss of soil erosion factors under different sampling densities in yimeng mountainous areas Qi Fei, et al (179)

Response of three global DEM Data accuracy to different terrain factors in Qinghai-Tibet Plateau GGao Zhiyuan, et al (184)

Construction of ecological security pattern in Yanping District of Nanping City, Fujian Province based on minimum cumulative resistance model Han Shihao, et al (192)

Spatial distribution of evapotranspiration in middle and upper Nu River basin based on MOD16 products Fan Xuemei, et al (199)

Risk regionalization of torrential flood disaster in Chongqing City based on GIS and FloodArea model Liu Xiaoran, et al (206)

Plant composition and diversity in rural homegarden of Langxi County, Anhui Province Xie Chunping, et al (212)

Comprehensive Research

A study on tendency of grain output in Hebei Province and its causes based on total factor productivity method Li Xinwang, et al (221)

Evolution characteristics of water resource ecological footprint of Guizhou Province from 2007 to 2016 Zhou Ziqin, et al (227)

Optimization of ecological land conservation pattern in Fuzhou Cityarea Li Guoyu, et al (234)

Relationship between soil organic matter and total nitrogen in compound soil of arsenic sandstone and sand with number of maize cultivation years in Mu Us Sandland Zhang Haiou, et al (242)

Evaluation of ecological carrying capacity and diagnosis of obstacle factors in Jiangsu Province based on DPSIR-TOPSIS model Gu Jiaming, et al (246)

Comprehensive analysis of water pollution in karst areas during nomal water season
—Taking Guizhou Province Dolomite Karst World Natural Heritage Zhang Chenyue, et al (253)

Influence of land use structure on water quality of river and reservior in water source land of southern hilly areas
—Taking Shanxi Reservoir Watershed as a Case Study Chen Fengyu, et al (260)

Effects of human disturbance on plant diversity of wild fruit forests in Western Tianshan Mountain Fang Ziyan, et al (267)

Analysis on spatiotemporal correlation between water resource change and ecological environment in Hexi Corridor Li Xiaojing, et al (275)

Evaluation of ecological carrying capacity of resource cities based on ecological footprint model Zhao Zheng, et al (281)

Evaluation of land consolidation potential of vacant villages under background of rural revitalization
—Taking Wulian County of Shandong Province as an Example Wang Yang, et al (288)

Spatial characteristics of cultivated land changes and influence factors in Hubei and He’nan Provinces Wei Yuchan, et al (293)

Risks of secondary disasters and its impact on nature reserves and natural heritages in Jiuzhaigou earthquake area Li Xiaoyong, et al (301)

Estimation on ecosystem service value in ecological environment support areas of Hebei Province Wang Yanfang, et al (309)

Correlation of rural land consolidation and beautiful countryside construction
—A Case Study in Nanjing City Li Yan, et al (317)