

Contents

Experimental Researches

- Characteristics of runoff and sediment production on mine dump slopes with different recovery periods in alpine regions Liu Yabin, Pang Jinghao, Liang Shen, et al (1)
- Hydrological effects of organic and inorganic ecological mulches applied to urban bare soil Tan Jiangfeng, Lu Lu, Qu Bingpeng, et al (12)
- Influence of vegetation restoration in construction access roads on soil and water loss in Southeastern Xizang Autonomous Region Ran Xinhao, Wang Guan, Li Yatong, et al (20)
- Influence of root-soil complex characteristics of *Amorpha fruticosa* on stability of loess slope Zhang Yanjie, Pang Qinggang, Liu Yang, et al (33)
- Vegetation community species diversity and soil moisture variation characteristics in desert-oasis transition zone of Zhangye City, Gansu Province Teng Yufeng, Chen Bin, Ma Jian, et al (45)
- Perturbation of Tengger Desert photovoltaic arrays on airflow field and wind-sand flow Zhang Chengchun, Zhang Weifu, Zhan Xiuli, et al (55)
- Influence of collapse deposits on nutrient content of purple soil He Lindong, Wu Yong, Tian Yun, et al (66)
- Effects of different ages of *Salix psammophila* Forest on soil enzyme activity in Hobq Desert An Hua, Meng Zhongju, Li Haonian, et al (77)
- Effects of soil water erosion on patch distribution pattern of *Stipa krylovii* in desert steppe Wang Ziwei, Yang Zhenqi, Guo Jianying, et al (86)
- Dynamic changes of soil moisture in sandy lands in east of Yellow River in Ningxia Zhang Weifu, Zhang Chengchun, Ma Siyi, et al (97)
- Nutrient composition and stoichiometric characteristics of plant species across different altitudes in Helan Mountains Liu Huili, Yuan Xujie, Liu Bingru, et al (107)
- Soil anti-erosion and anti-scouring effects of two types of urban green spaces and factors influencing them in Wenjiang District, Chengdu City Shi Xiaopeng, Gou Heran, He Shuqin, et al (117)
- Effects of short-duration high-intensity rainfall on runoff and sediment yield on karst corn slope Yang Yingchong, Dai Quanhou, Wang Yong, et al (126)
- Hydrological response of granite residual soil slope to short-duration heavy rainfall Lai Zengrong, Jian Wenbin, Lin Yunzhao, et al (135)
- Effect of water content on rheological properties of several major types of soil in Loess Plateau region Zhang Yanan, Zhou Lin, Xu Chenyang, et al (143)

Soil and Water Conservation Monitoring and Applied Technology

- Characteristics of wet, normal and dry in Chaobai River basin, upper reaches of Miyun Reservoir, and their quantitative relationship with inflow Xiong Rui, Zhao Yongjun, Qiu Yunxiaol (151)
- Effects of different restoration measures on soil physicochemical properties and enzyme activity of slopes in plateau wetland after highway engineering disturbance Ma Long, Li Yaling, Liu Shiqi, et al (157)
- Purification of tail water from large-scale aquaculture by ecological ditch-root channel wetland system Xue Rui, Yang Qiqi, Liu Guorong, et al (168)
- Influence of photovoltaic power stations on water quality and phytoplankton community structure in subsidence ponds in winter Wang Xingming, Teng Jie, Fan Tingyu, et al (177)
- Effects of different mulching materials on soil moisture by faint rainfall and dew collection Guan Enqing, Ma Bo, Guo Jia, et al (187)
- Geochemical characteristics and their indication to weathering and provenance of Pisha sandstone from Lower Jurassic Yan'an Formation in Jungar Banner, Inner Mongolia Autonomous Region Fan Shuhua, Qin Fucang, Che Zhihui, et al (196)
- Effects of different biochar additions on soil physicochemical properties and tobacco growth, yield, and output value in Chongqing mountainous region Ju Chenyi, Wang Zhenzhen, Xiao Qingli, et al (205)

Characteristics of rainfall erosivity under different magnitudes of rainfall in Jilin Province Song Shuang, Niu Tianyi, Chen Changsheng, et al (215)

Morphological characteristics and developmental change mechanisms of erosion gully in Baiquan County during 2003—2021 Qian Zhijing, Xiao Yang, Niu Yuxuan, et al (225)

Analysis of spatio-temporal dynamics and driving force of vegetation cover in Fujian Province section of Tingjiang River basin based on geographical detector Liu Linghua, Meng Weicai, Cai Cuiting, et al (236)

Impacts of different types of ecosystem conversion on soil wind erosion in key ecological functional zone in Inner Mongolia Autonomous Region Lu Zhongqiu, Dou Yinyin, Wang Junzhi, et al (247)

Wind tunnel simulation experiments on configuration of railway green belts in intensely blown sand areas of Hetian-Ruoqiang railway Ding Xuening (257)

Research progress on gully erosion monitoring techniques and methods from 1993 to 2022
—A bibliometric analysis based on CiteSpace Xiao Zhicai, Guo Mingming, Wan Zhaokai, et al (265)

Comprehensive Researches

Coordination relationship between green development and rural revitalisation in Sichuan-Guizhou area and its influencing factors Tang Yuanxiu, Ma Jiali, Liu Lihua (277)

Spatiotemporal characteristics of agricultural non-point source pollution and its development trend forecast in Shanxi Province Qiao Yangyuan, Zhang Peng, Dang Shuqing (289)

Changes of water and sediment in typical rivers entering sea in Beibu Gulf and their response to land use landscape pattern Xu Shanshan, Yang Xialing, Li Shushi, et al (298)

Spatiotemporal variation of surface water area in Beijing-Tianjin-Hebei region from 2000 to 2021 and its influencing factors Ma Caiyi, Cao Hongtao, Cui Tiejun, et al (309)

Characteristics and influencing factors of cultivated land pattern changes in Yellow River alluvial area in Southwest Shandong Province Liu Zhifei, Li Jiazuo, Li Wenlong, et al (321)

Frequency distribution and driving factors of land use changes in Guizhou Province Xie Lijun, Yang Guangbin, Wang Renru, et al (330)

Spatial and temporal evolution of land use pattern and ecosystem service function in Greater Khinggan Mountains of Inner Mongolia Pang Wanlong, Ji Penghao, Pang Lidong, et al (340)

Spatial distribution characteristics and factors influencing soil pH values in small watershed in typical industrial and mining area Ma Quanlai, Wan Xiaoqiang, Yangyan Wei, et al (352)

Impacts of precipitation and human activities on groundwater in six basins of Shanxi Province Shen Yu, Wang Dianlong (362)

Ecological water demand of rivers in southern mountainous area of Jinan based on characteristics of ecohydrological variation Li Hongtao, Zhao Long, Li Dan, et al (371)

Topographic characteristics of abandoned farmland based on decision tree and NDVI time series change detection
—A case study in Wushan County of Chongqing City Xia Yusong, Zhou Qigang, Li Hui, et al (383)

Spatio-temporal evolution of cultivated land pressure and its countermeasures in northern agro-pastoral ecotone in China Cao Haoran, Meng Mei (394)

Welfare effects and factors influencing farmers' participation in soil and water conservation projects in Three Gorges Reservoir area Wang Min, Wei Jie, Li Jinlin, et al (405)

Research progress on sources, migration characteristics, and influencing factors of non-point source pollution from orchards Xiong Lijun, Yin Shuo, Zhu Chenle (416)

Empirical analysis of spatio-temporal evolution of agricultural land allocation efficiency and driving factors in China based on all-encompassing approach to food Zhong Yanan, Gong Maogang (429)

Expert Forum

Relationship of systematic management of mountains, waters, forests, farmlands, lakes, grasses and sands with high-quality development of soil and water conservation Hu Chunhong, Zhang Xiaoming (441)