



干旱区地理

GANHANQU DILI

第44卷 第4期 2021年7月

目次

气候与水文

- 季节性冻土水热对融雪及气温的响应 古力米热·哈那提,张 音,苏里坦,等(889)
- 青藏高原东北部区域持续性低温事件的特征及影响因子分析 张调风,杨昭明,温婷婷,等(897)
- 干旱内陆区声波干预降雨微物理特征研究 潘佩翀,时 洋,赵智丰,等(906)
- 吐鲁番迁站前后气温和风速差值精细化分析 胡义成,宁金鸽,刘卫平,等(914)
- 基于微波辐射计的宁夏六盘山西侧大气水汽变化特征 林 彤,桑建人,姚展予,等(923)
- 艾比湖流域降水、地表水和地下水稳定同位素特征 郝 帅,李发东,李艳红,等(934)
- 威海流域陆地水储量时空变化研究 吕 叶,杨 涵,黄 粤,等(943)
- 克拉玛依夏秋季地面火箭增水作业效果的区域回归分析 李 斌,郑博华,兰文杰,等(953)
- 石羊河上游地面人工增雨效果统计检验分析 程 鹏,沈天成,罗 汉,等(962)
- 半干旱区煤化工高含盐废水自然蒸发规律研究 郭云彤,邵景力,崔亚莉,等(971)

地表过程研究

- 乌海至玛沁高速公路中卫段风沙环境特征及沙害防治 张克存,安志山,何明珠,等(983)
- 近30 a浑善达克沙地沙漠化时空演变特征及驱动机制研究 同丽嘎,宁小莉,张 靖,等(992)
- 中国北方地区尘卷风时空分布的数值模拟 韩超信,汤耀国,韩永翔,等(1003)
- 近40 a榆林市土地利用空间格局变化及影响因素分析 李亚丽,杨粉莉,杨联安,等(1011)
- 近30 a台特玛湖地区土地利用/土地覆被变化及其影响因素 贾丹阳,熊祯祯,高 岩,等(1022)
- 蒙古高原草原火灾风险评价研究 杨晓颖,玉 山,都瓦拉,等(1032)

地球信息科学

- 祁连山国家公园森林地上碳密度遥感估算 宋 洁,刘学录(1045)
- 巴基斯坦干旱特征及其风险评估 朱淑珍,黄法融,李兰海(1058)
- 干旱区绿洲城市生态环境时空变化特征分析——以克拉玛依市为例 周玄德,郭华东,杨胜天,等(1070)
- 清至民国毛乌素沙地佟哈拉克泊复原及演变研究 卢卓瑜,崔建新,张晓虹,等(1083)

土壤资源

- 自动土壤水分观测资料异常数据检测方法 李翠娜,刘天琦,吴东丽(1093)
- 咸水灌溉条件下塔里木河下游沙漠土壤水盐运移数值模拟 王世明,范敬龙,赵 英,等(1104)
- 基于主成分和机器学习的土壤有机质含量空间预测建模 胡贵贵,杨粉莉,杨联安,等(1114)
- 风电场对草地土壤湿度的影响 贾 馨,李国庆,王 刚,等(1125)
- 矿物复合保水剂对新疆干旱区凝结水吸持效果研究 李 备,张发旺,李勇军,等(1135)

区域发展

- 哈萨克斯坦城镇化与生态环境耦合过程与机理分析 黄金川,娜 英(1141)
- 中国沙漠地区旅游业与旅客运输的空间格局及动态响应研究 张 阳,靳 雪,龚先洁(1153)
- 高速铁路背景下西北地区铁路可达性与空间相互作用格局变化分析 张富涛,钱勇生,曾俊伟,等(1164)
- 中国北方农牧交错区生态脆弱性时空演变格局与驱动因素——以盐池县为例 黄 越,程 静,王 鹏(1175)
- 呼和浩特市生活性服务业空间布局特征及评价 李小璨,阿 荣,佟宝全(1186)

本期责任编辑:王青青

封面照片:董文平摄影

期刊基本参数:CN65-1103/X*1978*b*A4*310*zh+en*P*¥50.00*300*30*2021-07

ARID LAND GEOGRAPHY

Jul. 2021 Vol. 44 NO. 4

CONTENTS

Climatology and Hydrology

- Response of water and heat of seasonal frozen soil to snow melting and air temperature Gulimire HANATI, ZHANG Yin, SU Litan, et al(896)
- Characteristics and influencing factors of persistent low temperature events in northeast Qinghai-Tibet Plateau ZHANG Tiaofeng, YANG Zhaoming, WEN Tingting, et al(905)
- Microphysical characteristics of precipitation under the intervention of acoustic over an inland arid region PAN Peichong, SHI Yang, ZHAO Zhifeng, et al(913)
- Refined analysis of air temperature and wind speed difference before and after migration of Turpan station HU Yicheng, NING Jin'ge, LIU Weiping, et al(922)
- Statistical analysis of water vapor change characteristics over the west valley of Liupan Mountain area based on microwave radiometer LIN Tong, SANG Jianren, YAO Zhanyu, et al(933)
- Stable isotopes characteristics of precipitation, surface water and groundwater in Ebinur Lake Basin HAO Shuai, LI Fadong, LI Yanhong, et al(942)
- Spatiotemporal variation of terrestrial water storage in Aral Sea Basin LYU Ye, YANG Han, HUANG Yue, et al(952)
- Regression analysis of the rainfall enhancement effect by rocket seeding at summer and autumn in Karamay LI Bin, ZHENG Bohua, LAN Wenjie, et al(961)
- Statistical test and analysis of artificial rainfall enhancement effect in the upper Shiyang River Basin CHENG Peng, SHEN Tiancheng, LUO Han, et al(970)
- Natural evaporation processing of high saline wastewater in semi-arid area GUO Yuntong, SHAO Jingli, CUI Yali, et al(982)

Earth Surface Process

- Aeolian sand environments and disaster prevention along Zhongwei section of the Wuhai-Maqin Highway ZHANG Kecun, AN Zhishan, HE Mingzhu, et al(991)
- Spatial-temporal variation and driving mechanism of desertification in Hunshandake (Otindag) Sandy Land in recent 30 years TONG Liga, NING Xiaoli, ZHANG Jing, et al(1002)
- Simulation of spatial-temporal distribution of dust devil in northern China HAN Chaixin, TANG Yaoguo, HAN Yongxiang, et al(1010)
- Spatial pattern changes and influencing factors of land use in Yulin City in the past 40 years LI Yali, YANG Fenli, YANG Lian'an, et al(1021)
- Land use/land cover change and influencing factors in the Taitema Lake in the past 30 years JIA Danyang, XIONG Zhenzhen, GAO Yan, et al(1031)
- Risk assessment of grassland fire on the Mongolian Plateau YANG Xiaoying, Yushan, Duwala, et al(1044)

Earth Information Sciences

- Estimation of forest aboveground carbon density in Qilian Mountains National Park based on remote sensing SONG Jie, LIU Xuelu(1057)
- Drought characteristics and its risk assessment across Pakistan ZHU Shuzhen, HUANG Farong, LI Lanhai(1069)
- Temporal and spatial variation characteristics of oasis urban ecological environment in arid region: A case study of Karamay City ZHOU Xuande, GUO Huadong, YANG Shengtian, et al(1082)
- Historical changes reconstruction of Tonghalake Lake in the Mu Us Sandy Land from Qing Dynasty to Republic of China LU Zhuoyu, CUI Jianxin, ZHANG Xiaohong, et al(1092)

Soil Resources

- Anomaly data detection method for in situ automatic soil moisture observation LI Cuina, LIU Tianqi, WU Dongli(1103)
- Numerical simulation of water and salt migration in desert soil in the lower reaches of Tarim River under salt-water irrigation WANG Shiming, FAN Jinlong, ZHAO Ying, et al(1113)
- Spatial prediction modeling of soil organic matter content based on principal components and machine learning HU Guigui, YANG Fenli, YANG Lian'an, et al(1124)
- Effects of wind farms on soil moisture in grassland JIA Xin, LI Guoqing, WANG Gang, et al(1134)
- Retention effect of mineral superabsorbent composite on condensation water in arid areas in Xinjiang LI Bei, ZHANG Fawang, LI Yongjun, et al(1140)

Regional Development

- Coupling process and mechanism of urbanization and ecological environment in Kazakhstan HUANG Jinchuan, NA Ying(1152)
- Spatial pattern and dynamic response between tourism and passenger transportation in desert areas of China ZHANG Yang, JIN Xue, GONG Xianjie(1163)
- Railway accessibility and spatial interaction pattern change in northwest China in the background of high speed rail ZHANG Futao, QIAN Yongsheng, ZENG Junwei, et al(1174)
- Spatiotemporal evolution pattern and driving factors of ecological vulnerability in agro-pastoral region in northern China: A case of Yanchi County in Ningxia HUANG Yue, CHENG Jing, WANG Peng(1185)
- Characteristics and evaluation of the spatial distribution of life service industry in Hohhot City LI Xiaocan, A Rong, TONG Baoquan(1197)