

矿产勘查

2025年 第16卷 第3期

目 次

庆祝天津市地质矿产勘查开发局建局65周年专辑

六十五载结硕果 再谱未来新华章(代序).....	段焕春(I)
基础地质	
内蒙古四子王旗地区敦德乌苏辉长闪长岩—闪长岩及其地质意义——来自LA-ICP-MS年代学、地球化学的约束	张明洋,龙舟,来林,孙广义,周长红,张学斌,韩荣文(437)
内蒙古敖包吐韧性剪切带的厘定与构造属性分析.....	龙舟,张明洋,来林,张学斌,王然,周长红(453)
北大港湿地晚更新世晚期以来微体古生物组合特征和沉积环境演化	郭立君,胡海博,王林海,李明辰,刘欢,李美玲(464)
天津市蓟州北部山区叠层石分布研究与可持续发展对策	张逐月,李硕,王国琦,高洪生,董卫宏,赵萌,杨圣坤,王然(472)
蓟县中、新元古界标准地层剖面地质遗迹特征研究.....	肖艺,董卫宏,王永立,胡海博,杨圣坤,张逐月,李志华,董志华,赵萌(485)
勘查技术	
大地电磁法在松潘—甘孜褶皱区地热资源勘查中的应用研究	王雷生,杨圣坤,高洪生,赵超,刘志龙,朱怀亮(496)
天津宁河“坳中凸”区深部雾迷山组热储特征及探井参数研究	唐永香,刘杰,李嫄嫄,张雪梅,栾鹏宇,刘斐,彭红晶,李哲,张婷婷(505)
水工环地质	
基于风险区划和降雨阈值的地质灾害预警模型研究	席雪萍,闫勇,袁婷婷,罗福贵,高学飞,齐超,赵吉红(513)
地质遗迹景观价值保护研究背景下的地质文化村建设——以天津市蓟州区常州村为例	杨圣坤,李志华,高洪生,王雷生,董卫宏,胡海博,张逐月(521)
天津市蓟州区典型矿山生态修复遥感监测与评价	王瑶,高洪生,王国琦,胡海博,刘永涛,王永立,王然(531)
污染场地重金属风险评估及修复技术筛选	曹阳,孟嘉伟,张晓飞,李明明,申月芳(543)
天津市地下水重金属来源解析及健康风险评估	孟嘉伟,曹阳,李明明,申月芳(552)
天津市某地区农用地表层土壤重金属污染评价及含量预测分析	李国成,周墨,申月芳,曹阳,马婵娟(565)
天津市山岭子地热田热流体锶同位素演化及指示意义	张芬娜,贾志,徐明,阮传侠,王冰,岳冬冬(574)
江苏如东县小洋口二叠系—志留系裂隙热储层回灌试验研究	高新智,边宗斌,杨云霄,杨宝美(584)
天津市蓟县系雾迷山组热储层回灌影响因素分析	孙晓林,杨宝美,李珊,王震凯,高新智(591)
地表水回灌对碳酸盐岩热储的影响分析——基于COMSOL数值模拟	李鹏涛,赵艳婷,张德森,牛伟达,张森,杨宝美(598)
井下分层多参数监测系统的研制及其在地热回灌井的应用	张森,赵艳婷,卢宝,宗振海,蔡芸,王冰,高新智(606)
东丽湖外源水回灌对碳酸盐岩储层的影响研究	李鹏涛,张森,张德森,高新智,赵艳婷,杨宝美(614)
浅层地下水氯代烃污染物迁移转化机理研究——以天津市中部地区为例	李森清,李贵仁,苏宏建,万建华(625)
天津平原地区采用超深静探指标估算钻孔灌注桩极限侧阻力	陈丰,霍泽辉(634)
天津地区深部土层的静力触探指标与物理力学指标相关性研究	霍泽辉,陈丰,张松,孙川川(641)
市政道路工程对临近轻轨高架桥结构的影响分析与监测保障	吕金辉,段行雨,张月超,栗红宇,张磊,吕风春(651)
天津地区新生代地层工程特性与固结特征研究	黄猛,胡海博,吕潇文,贾晓青,牛毅,张姣姣,张学斌,薛敬凤,白晋斌(659)
农业地质	
基于地球化学调查的天津市西青区农用地适宜性评价及种植建议	董路阳,张亚娜,刘永涛,程绪江,潘磊(669)

Mineral Exploration

2025 Vol.16 No.3

Contents

General Geology

- LA-ICP-MS chronology, geochemical characteristics and geological significance of Dunde Usu Diorite in Siziwangqi, Inner Mongolia
..... ZHANG Mingyang, LONG Zhou, LAI Lin, SUN Guangyi, ZHOU Changhong, ZHANG Xuebin, HAN Rongwen(437)
Tectonic property and chronology discussion of Aobaotu Ductile Shear Zone in Inner Mongolia
..... LONG Zhou, ZHANG Mingyang, LAI Lin, ZHANG Xuebin, WANG Ran, ZHOU Changhong(453)
Characteristics of microbial paleontological assemblages and sedimentary environment evolution in Beidagang wetland since the Late Pleistocene
..... GUO Lijun, HU Haibo, WANG Linhai, LI Mingchen, LIU Huan, LI Meiling(464)
Research on the distribution and sustainable development measurements of stromatolites in the northern mountainous area of Jizhou District, Tianjin
..... ZHANG Zhuyue, LI Shuo, WANG Guoqi, GAO Hongsheng, DONG Weihong, ZHAO Meng, YANG Shengkun, WANG Ran(472)
Study on the geological features of the middle and upper Proterozoic standard strata section in Jixian County
..... XIAO Yi, DONG Weihong, WANG Yongli, HU Haibo, YANG Shengkun, ZHANG Zhuyue, LI Zhihua, DONG Zhihua, ZHAO Meng(485)

Exploration Technology

- Geothermal resources in Songpan-Ganzi fold area by magnetotelluric application research in exploration
..... WANG Leisheng, YANG Shengkun, GAO Hongsheng, ZHAO Chao, LIU Zhilong, ZHU Huailiang(496)
Characteristics of thermal reservoir of Wumishan Formation and parameters of exploring boreholes in "protrusion in depression area", Ninghe District, Tianjin TANG Yongxiang, LIU Jie, LI Yuanyuan, ZHANG Xuemei, LUAN Pengyu, LIU Fei, PENG Hongjing, LI Zhe, ZHANG Tingting(505)

Hydrogeology, Engineering and Environmental Geology

- Study on geological hazard early-warning model based on risk zoning and rainfall threshold
..... XI Xueping, YAN Yong, YUAN Tingting, LUO Fugui, GAO Xuefei, QI Chao, ZHAO Jihong(513)
Construction of geological cultural village under the background of landscape value protection of geological heritage: A case study of Changzhou Village, Jizhou District, Tianjin YANG Shengkun, LI Zhihua, GAO Hongsheng, WANG Leisheng, DONG Weihong, HU Haibo, ZHANG Zhuyue(521)
Remote sensing monitoring and evaluation of typical mine ecological restoration in Jizhou District, Tianjin
..... WANG Yao, GAO Hongsheng, WANG Guoqi, HU Haibo, LIU Yongtao, WANG Yongli, WANG Ran(531)
Risk assessment and screening of heavy metals remediation technology in contaminated sites
..... CAO Yang, MENG Jiawei, ZHANG Xiaofei, LI Mingming, SHEN Yuefang(543)
Source analysis and health risk assessment of heavy metals in groundwater of Tianjin MENG Jiawei, CAO Yang, LI Mingming, SHEN Yuefang(552)
Pollution assessment and prediction analysis of heavy metals in agricultural surface soil in a certain area of Tianjin
..... LI Guocheng, ZHOU Mo, SHEN Yuefang, CAO Yang, MA Chanjuan(565)
The evolution and indicating significance of strontium isotope in Shanlingzi geothermal field of Tianjin
..... ZHANG Fenna, JIA Zhi, XU Ming, RUAN Chuanxia, WANG Bing, YUE Dongdong(574)
Reinjection test of Permian-Silurian fracture thermal reservoirs in Xiaoyangkou, Rudong County, Jiangsu Province
..... GAO Xinzhi, BIAN Zongbin, YANG Yunxiao, YANG Baomei(584)
Analysis on influencing factors of thermal reservoir recharge in Wumishan Formation of Jixian System in Tianjin
..... SUN Xiaolin, YANG Baomei, LI Shan, WANG Zhenkai, GAO Xinzhi(591)
Analysis of the impact of surface water reinjection on carbonate thermal reservoirs: Based on COMSOL numerical simulation
..... LI Pengtao, ZHAO Yanling, ZHANG Desen, NIU Weida, ZHANG Sen, YANG Baomei(598)
Development of downhole stratified multi-parameter monitoring system and its application in geothermal reinjection wells
..... ZHANG Sen, ZHAO Yanling, LU Bao, ZONG Zhenhai, CAI Yun, WANG Bing, GAO Xinzhi(606)
Study on the effect of exogenous water reinjection of Donglihu on carbonate reservoirs
..... LI Pengtao, ZHANG Sen, ZHANG Desen, GAO Xinzhi, ZHAO Yanling, YANG Baomei(614)
Traceability of chlorinated hydrocarbon pollutants in shallow groundwater and the mechanism of transportation and transformation: A case study in the central area of Tianjin City LI Miaoqing, LI Guiren, SU Hongjian, WAN Jianhua(625)
Estimation of limit lateral resistance of bored pile in the plain area of Tianjin using ultra-deep static cone penetration test
..... CHEN Feng, HUO Zehui(634)
Research on the correlation between static cone penetration test indices and physical-mechanical indices of deep soil layers in Tianjin
..... HUO Zehui, CHEN Feng, ZHANG Song, SUN Chuanchuan(641)
Analysis and monitoring of influence of municipal road engineering on adjacent light rail viaduct structure
..... LYU Jinhui, DUAN Hangyu, ZHANG Yuechao, LI Hongyu, ZHANG Lei, LYU Fengchun(651)
Study on engineering characteristics and consolidation characteristics of Cenozoic strata in Tianjin Area
..... HUANG Meng, HU Haibo, LYU Xiaowen, JIA Xiaoqing, NIU Yi, ZHANG Jiaojiao, ZHANG Xuebin, XUE Jingfeng, BAI Jinbin(659)

Agricultural Geology

- Evaluation of suitability of agricultural land and planting suggestions in Xiqing District, Tianjin based on geochemical survey
..... DONG Luyang, ZHANG Yana, LIU Yongtao, CHENG Xujiang, PAN Lei(669)