

## 《中文核心期刊》

《中国学术期刊综合评价数据库》(CAJCED)来源期刊

《中国科技论文统计源期刊》数据库来源期刊

《中文科技期刊数据库》来源期刊

《国家科技学术期刊开放平台》全文收录期刊

《万方数据-数字化期刊群》入网期刊

《中国期刊全文数据库》(CJFD)全文收录期刊

《中国学术期刊(光盘版)》入编期刊

《中文电子期刊服务资料库》(CEPS)收录期刊

美国《化学文摘》(CA)来源期刊

俄罗斯《文摘杂志》(PЖ)来源期刊

美国《地质光盘数据库》(GeoRef)收录期刊

**物探与化探****GEOPHYSICAL & GEOCHEMICAL EXPLORATION**

双月刊 1979年2月创刊

Bimonthly, Started in 1979

2021年8月 第45卷 第4期

Vol.45 No.4 Aug., 2021

<b>主管</b>	中国地质调查局	<b>Superintended by</b>	China Geological Survey
<b>主办</b>	中国自然资源航空物探遥感中心	<b>Sponsored by</b>	China Aero Geophysical Survey and Remote Sensing Center for Natural Resources
<b>编辑</b>	《物探与化探》编辑部 地址:北京学院路29号航遥中心 邮编:100083 电话:(010)62060192;62060193 传真:(010)62060193 E-mail:whbjb@sina.com http://www.wutanyuhuatan.com	<b>Edited by</b>	Editorial Office of Geophysical and Geochemical Exploration Add:29 Xueyuan Road, Beijing 100083, China Tel:86-010-62060192/62060193 Fax:86-010-62060193 E-mail:whbjb@sina.com Web:http://www.wutanyuhuatan.com
<b>主编</b>	熊盛青	<b>Editor in Chief</b>	XIONG Sheng-Qing
<b>出版</b>	地质出版社 (北京学院路31号)	<b>Published by</b>	The Geological Publishing House (31 Xueyuan Road, Beijing 100083, China)
<b>印刷</b>	北京长宁印刷有限公司	<b>Printer</b>	Beijing Changning Printing Co. Ltd.
<b>总发行</b>	北京市邮政局	<b>Distributor</b>	Beijing Post Office
<b>国外发行</b>	中国国际图书贸易总公司 (北京399信箱) 国外发行代号 BM5551	<b>Abroad Distributor</b>	China International Book Trading Corporation
<b>订 阅</b>	全国各地邮局	<b>Subscription Hander</b>	Local Post Offices of China
<b>广告许可证</b>	京海工商广字第 0333 号		

## 综述

电性源瞬变电磁法综述 ..... 张莹莹 (809)

## 地质调查·资源勘查

老挝川圹省约俄锡多金属矿区沟系土壤地球化学特征及成矿预测  
..... 史琪,赵延朋,迟占东,葛华,康铁锁,李发兴,魏翔宇,卢见昆,杨人毅 (824)

胶东海域金矿床元素富集贫化特征及深部预测  
..... 张亮亮,朱立新,马生明,林少一,戴长国,周明岭,霍光,徐忠华,席明杰,张涛 (835)

塔西南高精度航磁油气地质构造调查 ..... 崔志强,胥值礼,李飞 (846)

青城子矿集区深部地质构造探测及找矿意义 ..... 程莎莎,彭莉红,孙栋华,王志宏,陈伟 (859)

包头市固阳县矿集区高密度电阻率法找水定井实例分析  
..... 王文杰,郝一,薄海军,王海龙,徐浩清,李永利,毛磊,刘永新,袁帅 (869)

综合物探方法在川东高陡断褶带隐伏断层勘探中的应用研究 ..... 彭明涛,王磊,曾明勇,谢兵兵,莫韦涛 (882)

无人直升机航磁方法在安徽省马鞍山市向山南一大甸塘地区铁矿普查中的应用  
..... 陈伟,赵国凤,费振正,罗丁,彭江英,黄岩,贾朔 (890)

基于地震环境噪声的油页岩勘探 ..... 李红星,谈顺佳,姚振岸,黄光南,徐培渊,周杰,范利飞 (898)

乌尔逊凹陷泥页岩演化特征及潜力区预测 ..... 杨松林,李岩,刘亚轩,杨雪,蒋文博 (906)

银川盆地东缘黄河断裂展布特征新认识 ..... 虎新军,陈晓晶,李宁生,仵阳,陈涛涛 (913)

构造地球化学岩屑测量在甘肃党河南山地区找金中的应用 ..... 赵吉昌,范应,雷一兰,姚宾宾 (923)

黄土覆盖区隐伏矿地球化学勘查技术试验研究——以河南中河提银铅锌多金属矿为例  
..... 窦奋,张必敏,叶荣,迟清华 (933)

多道能谱测量在冀东花岗岩型稀有金属矿勘查中的应用 ..... 程立群,张文雨,王凯,王斌,裴明星 (942)

## 方法研究·信息处理·仪器研制

基于贝叶斯理论面波频散曲线随机反演 ..... 刘辉,李静,曾昭发,王天琪 (951)

油气检测多技术联合在 B 油田的应用研究 ..... 马良涛,范廷恩,许学良,董建华,蔡文涛 (961)

地震正演技术在深反射地震剖面探测中的应用 ..... 王光文,王海燕,李洪强,李文辉,庞永香 (970)

泌阳凹陷高陡构造带地震成像 ..... 段莹,张高成,谭雅丽 (981)

基于 KICA 属性优化的支持向量机储层参数预测 ..... 王维强 (990)

基于去低频化的低幅度构造识别方法研究及应用 ..... 夏红敏,郑小文,黄捍东,肖炎辉,董金超,廖俊 (998)

基于可控震源的中浅部地震勘探参数选择 ..... 谢兴隆,马雪梅,龙慧,李秋辰,郭淑君,程正璞 (1004)

西湖凹陷平湖组砂泥岩岩性神经网络地震预测 ..... 张鹏飞,张世晖 (1014)

复杂异常体模型下的三维 MT 倾子正演模拟 ..... 田郁,乐彪 (1021)

基于 MySQL 的广域电磁法数据处理与解释软件 ..... 朱云起,李帝铨,王金海 (1030)

ANSYS 在瞬变电磁三维正演中的应用 ..... 智庆全,武军杰,王兴春,孙怀凤,杨毅,张杰,邓晓红,陈晓东,杜利明 (1037)

油气化探分析测试质量监控与评估方法探讨 ..... 胡斌,李广之 (1043)

基于在线惯序极限学习机的瞬变电磁非线性反演 ..... 李瑞友,张淮清,吴昭 (1048)

瞬变电磁法探测复杂状态下煤矿充水采空区物理模拟实验 ..... 裴肖明,冯国瑞,戚庭野 (1055)

基于熵—中位数子区滤波提取土壤氦气浓度异常——以甘肃省花海盆地为例  
..... 雷波,兰明,贺锋,鲁宝龙,罗才武 (1064)

基于 UPSO-Kriging 的综合工作面三维建模研究 ..... 张小艳,许慧,姜水军 (1071)

## 工程勘查

综合物探方法在城市隐伏断裂探测中的应用 ..... 刘伟,黄韬,王庭勇,刘怡,张继,刘文涛,张琦斌,李强 (1077)

井间电磁波 CT 在煤矿采空区探测效果分析 ..... 赵旭辰,李雪健,曹芳智,雷晓东,李晨,韩宇达 (1088)

Review on the study of grounded-source transient electromagnetic method .....	ZHANG Ying-Ying (809)
Valley system soils geochemical characteristics and metallogenic prediction of the Yue'e tin polymetallic mining area in Xieng Khouang Province, Laos .....	SHI Qi, ZHAO Yan-Peng, CHI Zhan-Dong, GE Hua, KANG Tie-Suo, LI Fa-Xing, WEI Xiang-Yu, LU Jian-Kun, YANG Ren-Yi (824)
Elements enrichment and dilution characteristics and deep metallogenic prognosis in the Haiyu gold deposit, Jiadong Peninsula .....	ZHANG Liang-Liang, ZHU Li-Xin, MA Sheng-Ming, LIN Shao-Yi, DAI Chang-Guo, ZHOU Ming-Ling, HUO Guang, XU Zhong-Hua, XI Ming-Jie, ZHANG Tao (835)
The application of high-precision aeromagnetic survey to the investigation of oil-gas geological structure in Southwest Tarim Basin .....	CUI Zhi-Qiang, XU Zhi-Li, LI Fei (846)
The exploration of deep geological structure in the Qingchengzi ore concentration area and its prospecting significance .....	CHENG Sha-Sha, PENG Li-Long, SUN Dong-Hua, WANG Zhi-Hong, CHEN Wei (859)
A case analysis of multielectrode resistivity method for determining a well location in groundwater prospecting in the ore concentration area of Guyang County, Baotou City .....	WANG Wen-Jie, HAO Yi, BO Hai-Jun, WANG Hai-Long, XU Hao-Qing, LI Yong-Li, MAO Lei, Liu Yong-Xin, YUAN Shuai (869)
The application of integrated geophysical prospecting to the exploration of buried faults in the high and steep fault-fold zone in eastern Sichuan .....	PENG Ming-Tao, WANG Lei, ZENG Ming-Yong, XIE Bing-Bing, MO Wei-Tao (882)
The application of unmanned helicopter aeromagnetic method to the survey of the iron deposit in Xiangshannan-Dadiantang area, Ma'anshan City, Anhui Province .....	CHEN Wei, ZHAO Guo-Feng, FEI Zhen-Zheng, LUO Ding, PENG Jiang-Ying, HUANG Yan, JIA Shuo (890)
Oil shale exploration based on seismic ambient noise .....	LI Hong-Xing, TAN Shun-Jia, YAO Zhen-An, HUANG Guang-Nan, XU Pei-Yuan, ZHOU Jie, FAN Li-Fei (898)
Evolution characteristics and potential area prediction of shale in Wuerxun Sag .....	YANG Song-Lin, LI Yan, LIU Ya-Xuan, YANG Xue, JIANG Wen-Bo (906)
New understanding of the distribution characteristics of the Yellow River fault on the eastern margin of Yinchuan Basin .....	HU Xin-Jun, CHEN Xiao-Jing, LI Ning-Sheng, WU Yang, CHEN Tao-Tao (913)
The application of tectonogeochemical cuttings survey to gold prospecting in Nanshan area of Danghe, Gansu Province .....	ZHAO Ji-Chang, FAN Ying, LEI Yi-Lan, YAO Bin-Bin (923)
An experimental study of geochemical exploration methods for concealed deposits in loess overburden area; A case study of the Zhonghedii polymetallic deposit in Henan Province .....	DOU Bei, ZHANG Bi-Min, YE Rong, CHI Qing-Hua (933)
The application of multi-channel energy spectrum survey to the exploration of granite type rare metal deposits in eastern Hebei .....	CHENG Li-Qun, ZHANG Wen-Yu, WANG Kai, WANG Bin, PEI Ming-Xing (942)
Stochastic inversion of surface wave dispersion curves based on Bayesian theory .....	LIU Hui, LI Jing, ZENG Zhao-Fa, WANG Tian-Qi (951)
The application of multi-seismic hydrocarbon detection technology to gas identification in B oilfield .....	MA Liang-Tao, FAN Ting-En, XU Xue-Liang, DONG Jian-Hua, CAI Wen-Tao (961)
Application of seismic forward simulation technology in deep reflection seismic profile detection .....	WANG Guang-Wen, WANG Hai-Yan, LI Hong-Qiang, LI Wen-Hui, PANG Yong-Xiang (970)
Seismic imaging of high-steep structural zone in Biyang Depression .....	DUAN Ying, ZHANG Gao-Cheng, TAN Ya-Li (981)
The research of reservoir parameters forecasting based on KICA and SVM .....	WANG Wei-Qiang (990)
The application of low-amplitude structure based on low-frequency reduction .....	XIA Hong-Min, ZHENG Xiao-Wen, HUANG Han-Dong, XIAO Yan-Hui, DONG Jin-Chao, LIAO Jun (998)
The parameter selection of middle and shallow seismic exploration based on vibrator .....	XIE Xing-Long, MA Xue-Mei, LONG Hui, LI Qiu-Chen, GUO Shu-Jun, CHENG Zheng-Pu (1004)
Neural network seismic prediction of sand and mudstone lithology of Pinghu Formation in Xihu Sag .....	ZHANG Peng-Fei, ZHANG Shi-Hui (1014)
Forward modeling of MT tipper based on 3D complex anomalous body model .....	TIAN Yu, YUE Biao (1021)
Wide field electromagnetic data processing and interpretation platform based on MySQL .....	ZHU Yun-Qi, LI Di-Quan, WANG Jin-Hai (1030)
The application of ANSYS to TEM 3D forward modeling .....	ZHI Qing-Quan, WU Jun-Jie, WANG Xing-Chun, SUN Huai-Feng, YANG Yi, ZHANG Jie, DENG Xiao-Hong, CHEN Xiao-Dong, DU Li-Ming (1037)
A discussion on quality monitoring and evaluation methods for oil and gas geochemical analysis and testing .....	HU Bin, LI Guang-Zhi (1043)
Online sequential extreme learning machine for transient electromagnetic nonlinear inversion .....	LI Rui-You, ZHANG Huai-Qing, WU Zhao (1048)
Physical simulation experiment for detecting water-filled goaf of coal mine under complex conditions based on transient electromagnetic method .....	PEI Xiao-Ming, FENG Guo-Rui, QI Ting-Ye (1055)
The application of information entropy subinterval area median contrast filtering method to extracting the abnormal soil gas radon concentrations: A case study of Huahai basin, Gansu Province .....	LEI Bo, LAN Ming, HE Feng, LU Bao-Long, LUO Cai-Wu (1064)
Research on 3D modeling of fully mechanized mining face based on UPSO-Kriging .....	ZHANG Xiao-Yan, XU Hui, JIANG Shui-Jun (1071)
The application of integrated geophysical prospecting methods to the exploration of urban buried fault .....	LIU Wei, HUANG Tao, WANG Ting-Yong, LIU Yi, ZHANG Ji, LIU Wen-Tao, ZHANG Qi-Bin, LI Qiang (1077)
An analysis of the detection effect of cross-well electromagnetic wave CT in coal mine goaf .....	ZHAO Xu-Chen, LI Xue-Jian, CAO Fang-Zhi, LEI Xiao-Dong, LI Chen, HAN Yu-Da (1088)