

《中文核心期刊要目总览》入编期刊  
 《中国科学引文数据库》(CSCD)来源期刊  
 《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  
 《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》(PK)来源期刊  
 美国《地质光盘数据库》(GeoRef)收录期刊

主 编 熊盛青 责任编辑 焦恩富

主 管 国土资源部  
 主 办 中国国土资源航空物探遥感中心  
 协 办 中国地质学会勘查地球物理专业委员会  
 中国地质学会勘查地球化学专业委员会  
 编 辑 《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;whbjb@agrs.cn;  
 http://www.wutanyuhuatan.com

出 版 地质出版社  
 印 刷 北京印刷学院实习工厂  
 国内总发行 北京市邮政局  
 国外总发行 中国国际图书贸易总公司  
 (北京399信箱)  
 国外发行代号 BM5551  
 订 阅 全国各地邮局  
 广 告 证 京海工商广字第0333号  
 刊 名 题 字 孙大光  
 封面照片供稿 李颖

<b>综述</b>	
SEDEX型矿床地质地球化学特征及研究趋势	王炜,鲍征宇,李璇,等 (415)
<b>区域地质调查</b>	
利用重磁资料研究南海东北部海域中生界分布	林珍,张莉,易海,等 (422)
应用TEM资料分析麻黄泉地区地层结构及沉积环境	赵希刚,贺建国,赵翠萍,等 (428)
<b>资源勘查</b>	
直升机航磁方法在大冶铁矿区深部找矿中的见矿实例	于长春,熊盛青,刘士毅,等 (435)
开封凹陷区地热资源大地电磁测深研究	高宏景,佟铁钢,强健科,等 (440)
南秘鲁QUELLAVECO铜矿激电测深异常	刘伟,余友,张明会 (444)
炭质地层覆盖区综合物探方法寻找隐伏矿床	谢志峰,张翔 (448)
河南嵩县钼矿的电性特征	刘保平,刘菁华 (454)
蒙古国某地航空物探异常综合研究及找矿实例	田达志,常志民,王大勇 (458)
物、化探在黄竹园金矿勘探中的应用	随启发,易善涛,张学忠,等 (463)
土壤地球化学测量在扬子地台西缘缘泽铅锌矿带筲竹寺组中的应用	熊亮,朱杰勇,朱林生,等 (467)
土壤地球化学测量在智利阿尔法矿区的应用效果	罗正传 (472)
<b>方法技术研究</b>	
面波频散反演地下层状结构的蚁群算法	翟佳羽,赵园园,安丁酉 (476)
基于HMM双重模型的伽马能谱漂移模拟	黄洪全,方方,龚迪琛,等 (482)
基于BP神经网络的航空物探数据分类方法	黄旭钊,梁月明,李桐林 (485)
相位激电电磁耦合两频校正技术	郭鹏,林品荣,石福升 (489)
基于主元分析法的浅地层小目标探测算法	冯温雅,彭正辉,费翔宇,等 (493)
便携式X射线荧光光谱仪应用条件试验及效果	钱建平,吴高海,陈宏毅 (497)
ICP-MS法在元素活动态分析中的应用	刘亚轩,李庆霞,董永胜,等 (503)
X荧光测井探管的研制及其初步应用	杨强,葛良全,赖万昌,等 (508)
<b>生态环境调查</b>	
黑龙江省扎龙湿地土壤地球化学特征及生态环境意义	李延生 (512)
航空地球物理在海岸带水资源环境调查中的作用	卢建忠,方迎尧,吴其反 (517)
<b>计算技术与信息处理</b>	
Zoeppritz方程近似解拟合精确解影响因素	程彦,董守华,赵伟,等 (523)
基于改进模拟退火算法的剩余静校正及程序实现	潘文勇 (528)
基于S变换的工频干扰压制	汪铁望,于相海,刘明乾,等 (532)
改进的F-X域EMD去噪在井间地震数据处理中的应用	熊章强,周安,张大洲 (536)
基于可视化技术的3D井地磁测人机交互反演	冯杰,刘天佑,杨宇山 (541)
利用VSP子波替换提高地面地震资料的分辨率	于茜 (546)
基于EGM2008模型的重力观测点GPS高程转换	冯林刚,张锁祥,蒙奎文 (549)
<b>工程勘察</b>	
多道瞬态瑞利波法场地数据采集参数实验	贾辉,何正勤,陈义军,等 (553)

# GEOPHYSICAL AND GEOCHEMICAL EXPLORATION

Vol.34, No.4

## CONTENTS

Geological and Geochemical Characteristics and Research Trends of the Sedex Deposits .....	<i>Wang Wei, Bao Zhengyu, Li Xuan, et al</i>	(415)
A Study of the Distribution of Mesozoic Strata Based on Gravity and Magnetic Data Obtained in Northeastern South China Sea .....	<i>Lin Zhen, Zhang Li, Yi Hai, et al</i>	(422)
An Analysis of Stratigraphic Formation and Sedimentary Environment Using TEM in Search for Sandstone Type Uranium Deposits in Mahuangquan Area .....	<i>Zhao Xigang, He Jianguo, Zhao Cuiping, et al</i>	(428)
An Ore Discovery Example of Deep Prospecting by Helicopter Aeromagnetic Survey in the Daye Iron Mine .....	<i>Yu Changchun, Xiong Shengqing, Liu Shiyi, et al</i>	(435)
A Magnetotelluric Study of Geothermal Resources in Kaifeng Depression, Henan Province .....	<i>Gao Jinghong, Tong Tiegang, Qiang Jianke, et al</i>	(440)
An Analysis of IP Sounding Anomalies in the Quellaveco Copper Deposit of Southern Peru .....	<i>Liu Wei, Yu You, Zhang Minghui</i>	(444)
The Application of Integrated Geophysical Methods to the Prospecting for Concealed Ore Deposits in Carbonaceous Bed Covering Areas .....	<i>Xie Zhifeng, Zhang Xiang</i>	(448)
A Tentative Discussion on Electrical Characteristics of a Molybdenum Ore Deposit in Henan Province .....	<i>Liu Baoping, Liu Jinghua</i>	(454)
An Integrated Study of Air-borne Geophysical Anomalies in Mongolia as well as Ore-Prospecting Practice .....	<i>Tian Dazhi, Chang Zhimin, Wang Dayong</i>	(458)
The Application of Geophysical and Geochemical Exploration in the Huangzhuyuan Gold Ore Deposit .....	<i>Sui Qifa, Yi Shantao, Zhang Xuezhong, et al</i>	(463)
The Application of Soil Survey to Qiongzhusi Formation in the Huize Pb-Zn Metallogenic Belt on the West Margin of the Yangtze Platform .....	<i>Xiong Liang, Zhu Jieyong, Zhu Linsheng, et al</i>	(467)
The Effect of Applying Soil Geochemical Survey in the Aifa Ore District, Chile .....	<i>Luo Zhengzhuan</i>	(472)
The Ant Colony Algorithm for the Inversion of the Dispersion Curve of Tayleigh Wave in Multilayered Media .....	<i>Zhai Jiayu, Zhao Yuanyuan, An Dingyou</i>	(476)
The Simulation of $\gamma$ Spectrum-shifting Based on HMM Dual Model .....	<i>Huang Hongquan, Fang Fang, Gong Dichen, et al</i>	(482)
The Classification of Aerogeophysical Data Based on BP Neutral Net .....	<i>Huang Xuzhao, Liang Yueming, Li Tonglin</i>	(485)
The Phase-IP Electromagnetic Coupling Correction Technique of Two Frequencies .....	<i>Guo Peng, Lin Pirong, Shi Fusheng</i>	(489)
An Algorithm for Detection of Shallowly Buried Small Objects Based on Principal Component Analysis .....	<i>Feng Wenya, Peng Zhenghui, Fei Xiangyu, et al</i>	(493)
Experiments on the Application Conditions of Portable XRF Analyzer and its Prospecting Results .....	<i>Qian Jianping, Wu Gaozhai, Chen Hongyi</i>	(497)
The Application of Icp-MS to the Analysis of Active State Elements .....	<i>Liu Yaxuan, Li Qingxia, Dong Yongsheng, et al</i>	(503)
The Development and Preliminary Application of the Exploring Tube for XRF Logging .....	<i>Yang Qiang, Ge Liangquan, Lai Wanchang, et al</i>	(508)
Soil Geochemical Characteristics and Ecological Environment Significance of the Zhalong Wetlands in Heilongjiang Province .....	<i>Li Yansheng</i>	(512)
The Role of Aerogeophysical Survey in the Water Resource Environment Survey of Coastal Areas .....	<i>Lu Jianzhong, Fang Yingyao, Wu Qifan</i>	(517)
An Analysis of the Influencing Factors Between Zoeppritz Approximate Solution and Exact Solution .....	<i>Cheng Yan, Dong Shouhua, Zhao Wei, et al</i>	(523)
Residual Static Correction Based on Improved Simulated Annealing Algorithm and Program Implementation .....	<i>Pan Wenyong</i>	(528)
The Attenuation of Power Interference Based on S-transform .....	<i>Wang Tiewang, Yu Xianghai, Liu Mingqian,</i>	(532)
The Application of Improved Emd in the F-X Domain for Noise Attenuation to the Processing of Cross Well Seismic Data .....	<i>Xiong Zhangqiang, Zhou An, Zhang Dazhou</i>	(536)
3D Man-machine Interactive Inversion of Surface and Borehole Magnetic Data Based on Visualization Technology .....	<i>Feng Jie, Liu Tianyou, Yang Yushan</i>	(541)
The Enhancement of the Resolution of Surface Seismic Data by Using Wavelet of VSP Replacement Method .....	<i>Yu Qian</i>	(546)
GPS Height Transform Based on EGM2008 Model .....	<i>Feng Lingang, Zhang Suoxiang, Meng Kuiwen</i>	(549)
Tests on Field Data Acquisition Parameters in MASW .....	<i>Jia Hui, He Zhengqin, Chen Yijun, et al</i>	(553)

**Edited by** Editorial Office of Geophysical and Geochemical Exploration  
(China Aero Geophysical Survey and Remote Sensing Center for Land and Resources,  
29 College Road, Beijing, China, 100083)

**Published by** Geological Publishing House (Beijing, China, 100083)