



目 次

固体地球物理及空间物理学(大气、行星、地球动力学、重磁电及地震学、地热学)

高度 60 ~ 110 km 大气风场特征的实测和模式对比分析	程胡华, 高超, 李新东, 赵亮, 刘海文, 张笑 (1711)
基于 FY-3D/MWRI 的海上大气可降水反演研究	徐超凡, 官元红, 鲍艳松, 陆其峰, 李江涛 (1723)
GRACE 和 GRACE-FO 缺失数据重建研究进展	郝卫峰, 杨伊迪, 刘培冲, 高晟俊, 程青 (1734)
黔中城市生态功能区生态环境质量动态评估及其驱动因素分析	李文艳, 兰安军, 范泽孟, 王丹 (1749)
地热井倾斜度对热采效率影响的三维数值分析	高俊义 (1763)
贝叶斯反演: 震源参数反演研究的重要方法与挑战	王者, 刘云华 (1771)
一种基于 Delaunay 三角剖分的天然地震波初至实时拾取算法	杨敬松, 廖府, 李智涛, 卢泽蕨 (1788)
联合反演面波频散和 H/V 获取地壳上地幔的横波速度及径向各向异性研究	胥鸿睿, 程天健, 漆乔木, 付锦昌, 李川 (1800)

应用地球物理学 I (油气及金属矿产地球物理勘探)

主被动源地震勘探在金属矿勘查中的应用	闫浩飞, 刘国峰 (1810)
基于迭代数据增强的自监督叠前地震随机噪声压制方法	石战战, 黄果, 陈庆利, 庞溯, 王元君 (1824)
基于噪声测井的注入剖面解释方法研究	黄海涛, 宋红伟, 黎明, 马文慧 (1838)
神东矿区顶板富水砂岩的地震岩石物理特征	刘显贵, 符超, 尹海洋, 陈同俊 (1850)
一种双泵联控联测的异常高压深层油气藏的孔隙度的实验测量方法	鲁锋, 王剑, 潘晓慧, 刘振, 蒋欢, 谢礼科, 韩学辉 (1857)
基于测井解释模型与平均影响值法联合优化的煤层气含量预测方法	白泽, 谭茂金, 白洋, 吴海波 (1863)
地震频段部分饱和条件下软孔隙流体饱和度对岩石弹性模量频散衰减的影响	赵立明, 陆菜平, 刘洋 (1874)
基于自动超参数优化框架与梯度提升算法融合的储层粒度二维分布预测研究	蒋熙梅, 闫伟超, 邢会林, 孙建孟 (1886)
基于非结构化六面体网格矢量有限元的大地电磁测深三维反演	李阳铭, 郭长安, 陈楚桐, 王堃鹏 (1901)
含强屏蔽滩坝砂储层正演模拟分析及描述	桂志鹏, 邵奇奇, 张军华, 夏连军, 罗震, 孙有壮 (1911)



- 基于微动成像与微地震监测的盐矿溶腔及开采活动性研究 刘梁, 鄢毛毛, 刘攀飞, 潘登, 杨少博, 查华胜, 高级, 张海江 (1923)
- 成熟湖相页岩电性影响因素及导电机理探讨——以松南长岭凹陷青一段为例 党微, 肖佃师, 韩诗文, 杨亮, 李卓, 郑乐华, 汪睿 (1935)
- 混合震源资料匹配处理技术在煤田三维地震勘查中的应用研究 刘恋, 陈松, 汪玉玲, 肖逸飞, 岳洪波 (1951)
- 高可扩展三维大地电磁电阻率各向异性、磁导率正演 程旭, 龚春叶, 王光杰, 肖调杰, 杨博, 刘杰, 王贊 (1963)
- 低孔低渗砂岩核磁共振测井物性评价下限及温压特性实验研究 魏奎, 王贵文, 王猛, 董宇 (1979)
- 坑道地震预测(TSP)技术在云南羊拉铜矿找矿中的初步应用 朱基湛, 胡煜昭, 吴世林, 王新富 (1989)
- 井周地层纵横波慢度径向分布反演方法研究进展 王梓, 岳文正, 朱瑜明, 刘鑫, 田斌 (2002)
- 被动源面波三维横波速度反演在山东某矿区应用研究 张凡斌, 韩帅, 曾爱平 (2013)
- 基于孔隙度分析的断裂连通路径识别方法 赵军, 冉琦, 梁舒缓, 朱博华, 常健强, 杨尚锋 (2025)

应用地球物理学 II (海洋、工程、环境、仪器等)

- 基于 FPGA 的多通道电磁信号采集平台设计 程辉, 魏栋麟, 付国红 (2034)
- 基于有限体积的半航空瞬变电磁任意各向异性三维正演及响应规律分析 姜晓腾, 孙怀凤, 刘东, 柳尚斌, 王震, 周小生, 杨静 (2046)
- 多分量震源和检波器数据弹性波高斯束偏移 石星辰, 毛伟建, 张延保, 田宝卿 (2059)
- 探地雷达早期信号探测深度数值研究与应用 范永亮, 郭士礼, 梁栋, 代公正, 于明羽 (2069)
- 时移跨孔地震全波形反演方法在水泥搅拌桩检测中的应用研究 刘耀徽, 恩和得力海, 黄亚平, 张耘获, 杨坪 (2078)
- 基于层序地层学的时频分析技术识别有利砂体——以涠洲 A 构造湖底扇为例 罗琪, 李明, 黄时卓, 焦立波 (2090)



(CONTENTS)

- Measured and model comparison analysis of atmospheric wind field characteristics at an altitude of 60 ~ 110 km CHENG HuHua, GAO Chao, LI XinDong, ZHAO Liang, LIU HaiWen, ZHANG Xiao (1711)
- Research on retrieval for total precipitable water by FY-3D/MWRI XU ChaoFan, GUAN YuanHong, BAO YanSong, LU QiFeng, LI JiangTao (1723)
- Research progress in the reconstruction of GRACE and GRACE-FO missing data HAO WeiFeng, YANG YiDi, LIU PeiChong, GAO ShengJun, CHENG Qing (1734)
- Dynamic assessment of ecological environment quality in the ecological functional zone of central Guizhou city and its driving factor analysis LI WenYan, LAN AnJun, FAN ZeMeng, WANG Dan (1749)
- Three-dimensional numerical analysis of the influence of geothermal well inclination on thermal recovery efficiency GAO JunYi (1763)
- Bayesian inversion: an important method and challenge for seismic source parameter inversion research WANG Zhe, LIU YunHua (1771)
- Real time picking algorithm for natural seismic wave first arrival based on Delaunay triangulation YANG JingSong, LIAO Fu, LI ZhiTao, LU ZeWei (1788)
- Study on the joint inversion of surface wave dispersion curves and H/V to obtain shear velocity and radial anisotropy of crust and uppermost mantle XU HongRui, CHENG TianJian, QI QiaoMu, FU JinChang, LI Chuan (1800)
- Application of active and passive source seismic exploration in mineral exploration YAN HaoFei, LIU GuoFeng (1810)
- Random noise suppression for pre-stack seismic data based on self-supervised learning via iterative data refinement SHI ZhanZhan, HUANG Guo, CHEN QingLi, PANG Su, WANG YuanJun (1824)
- Research on injection profile interpretation method based on noise logging HUANG HaiTao, SONG HongWei, LI Ming, MA WenHui (1838)
- Seismic rock physics characteristics of water-rich roof sandstone in the Shendong mining area LIU XianGui, FU Chao, YIN HaiYang, CHEN TongJun (1850)
- Measurement method of porosity for overpressure deep reservoir with double high precision constant pressure and speed pumps LU Feng, WANG Jian, PAN XiaoHui, LIU Zhen, JIANG Huan, XIE Like, HAN XueHui (1857)
- Coalbed methane content prediction based on joint optimization of log interpretation model and mean impact value method BAI Ze, TAN MaoJin, BAI Yang, WU HaiBo (1863)
- Influence of fluid saturation in soft pores on elastic modulus dispersion and attenuation of rocks under partial saturation condition at seismic frequencies ZHAO LiMing, LU CaiPing, LIU Yang (1874)
- Research on two-dimensional reservoir grain size distribution prediction based on the fusion of automatic hyperparameter optimization framework and gradient boosting algorithm JIANG XiMei, YAN WeiChao, XING HuiLin, SUN JianMeng (1886)



- Three-dimensional magnetotelluric inversion based on unstructured hexahedral mesh edge-base finite element method *LI YangMing, GUO ChangAn, CHEN ChuTong, WANG KunPeng* (1901)
- Forward modeling analysis and description of beach-bar sand reservoir with strong shielding *GUI ZhiPeng, SHAO QiQi, ZHANG JunHua, XIA LianJun, LUO Zhen, SUN YouZhuang* (1911)
- Research on salt mine cavity and mining activity based on microtremor imaging and microseismic monitoring *LIU Liang, YAN MaoMao, LIU PanFei, PAN Deng, YANG ShaoBo, et al.* (1923)
- Influence factors and conduction mechanism of mature lacustrine shales: a case study of the first member of Qingshankou Formation in Changling Sag, South Songliao Basin *DANG Wei, XIAO DianShi, Han ShiWen, YANG Liang, LI Zhuo, et al.* (1935)
- Research on the application of mixed source data matching processing technology in 3D seismic exploration of coal field *LIU Lian, CHEN Song, WANG YuLing, XIAO YiFei, YUE HongBo* (1951)
- Efficient scalable three-dimensional magnetotelluric forward modeling method considering resistive anisotropy and magnetic resistivity *CHENG Xu, GONG ChunYe, WANG GuangJie, XIAO TiaoJie, YANG Bo, LIU Jie, WANG Yun* (1963)
- Experimental Study on the lower limit of nmr logging physical evaluation and temperature-pressure characteristics of low-porosity and low-permeability sandstone *WEI Xi, WANG GuiWen, WANG Meng, DONG Yu* (1979)
- Preliminary application of Tunnel Seismic Prediction (TSP) technology in mineral exploration in the Yangla copper mine, Yunnan Province *ZHU JiZhan, HU YuZhao, WU ShiLin, WANG XinFu* (1989)
- Advances of the inversion of radial slowness profile near borehole with array acoustic logging *WANG Zi, YUE WenZheng, ZHU YuMing, LIU Xin, TIAN Bin* (2002)
- 3D shear wave velocity inversion with passive seismic surface wave in a mineral exploration *ZHANG FanBin, HAN Shuai, ZENG AiPing* (2013)
- Identification method of fault connectivity path based on porosity analysis *ZHAO Jun, RAN Qi, LIANG ShuYuan, ZHU BoHua, CHANG JianQiang, YANG ShangFeng* (2025)
- Design of multi-channel electromagnetic signal acquisition platform based on FPGA *CHENG Hui, WEI DongLin, FU GuoHong* (2034)
- Three-dimensional forward modeling and response analysis of semi-airborne transient electromagnetic with arbitrary anisotropy based on finite volume method *JIAGN XiaoTeng, SUN HuaiFeng, LIU Dong, LIU ShangBin, WANG Zhen, ZHOU XiaoSheng, Yang Jing* (2046)
- Elastic Gaussian-beam migration of multicomponent-source and-receiver data *SHI XingChen, MAO WeiJian, ZHANG YanBao, TIAN BaoQing* (2059)
- Numerical study and application for detection depth of gpr early-time signal *FAN YongLiang, GUO ShiLi, LIANG Dong, DAI GongZheng, YU MingYu* (2069)
- Application of time-lapse cross-hole seismic full waveform inversion method in cement mixing pile detection *LIU YaoHui, Enhedelihai, HUANG YaPing, ZHANG YunHuo, YANG Ping* (2078)
- Time-frequency analysis method of fusing sequence stratigraphy identifies favorable sand bodies: taking Weizhou A tectonic lake bottom fan as an example *LUO Qi, LI Ming, HUANG ShiZhuo, JIAO LiBo* (2090)