

# 中国岩溶

CARSOLOGICA SINICA

(双月刊, 1982年创刊)



第42卷 第6期  
2023年12月出版

主编: 蒋忠诚

责任编辑: 张玲 黄晨晖  
杨杨

英文审改: 庄艳 王伟  
陈静静

封面照片: 李晋

## 目 次

### 基础地质

- 基于 SWAT-MODFLOW 地表-地下水耦合模型的结构与应用研究 ..... 刘文冲, 赵良杰, 崔亚莉, 等 (1131)  
岩溶包气带水流衰减过程与调蓄能力影响机制研究 ..... 张铁博, 王锦国, 刘芮彤 (1140)  
黄龙核心景区水环境动态特征及钙华沉积能力分析 ..... 刘馨泽, 张清明, 孙东, 等 (1149)  
岩溶洼地抽水蓄能建库适宜性评价体系及目标优选 ..... 张涛, 左双英, 沈春勇, 等 (1161)  
云南鹤庆县北衙金矿岩溶发育及富水特征 ..... 和祥, 董学兰, 杨超, 等 (1173)  
丽江黑龙潭地下河系统的水均衡分析与预测评价 ..... 任世川, 杨晓艳, 杨颖彬, 等 (1183)  
丽江黑龙潭地下水系统温度场特征研究 ..... 陈鑫, 郑克勋, 韩啸, 等 (1193)

### 环境地质

- 喀斯特石质生境高碳酸酐酶活性微生物筛选与分离 ..... 常凯云, 王忠诚, 魏晓梦, 等 (1202)  
云南岩溶断陷盆地植被演替土壤碳氮磷化学计量学特征 ..... 胡林安, 邱江梅, 李强 (1213)

### 灾害地质

- 西南岩溶区深埋隧洞涌水条件分析及涌水量预测——以滇中引水工程大坡子隧洞为例 ..... 罗一鸣, 成建梅, 徐文杰, 等 (1224)  
不同时间序列模型在岩溶山区矿井涌水量预测中的应用 ..... 邹银先, 褚学伟, 段先前, 等 (1237)  
深埋隧道精细地应力场反演研究——以滇西南双江至沧源高速姜染山隧道为例 ..... 李红明, 孙炜锋, 张红日, 等 (1247)  
表层喀斯特带溶蚀岩体单轴压缩力学特性模拟研究 ..... 冷德明, 史文兵, 李华, 等 (1258)  
溶槽水位波动对隧道衬砌的力学影响模拟分析 ..... 蔡直言, 伍毅敏, 许鹏, 等 (1270)  
喀斯特地貌区隧道与隐伏充填溶洞临界安全距离分析 ..... 王万锋, 杨永泰, 陆钰铨, 等 (1282)  
基于正态云模型的浏阳市永和镇岩溶塌陷易发性研究 ..... 鲁玉龙, 叶高峰, 杨仙, 等 (1294)

### 油气地质

- 逆冲断裂对富满油田哈得区块油气成藏的控制作用 ..... 李世银, 罗枭, 王彭, 等 (1303)  
四川盆地高石梯—磨溪地区震旦系灯影组白云岩溶蚀差异实验研究 ..... 罗文军, 季少聪, 刘曦翔, 等 (1312)

### 技术与方法

- 被动源面波法在城市居民区建筑间的应用 ..... 邬健强, 陈松, 徐俊杰, 等 (1322)  
基于高密度电法的城市岩溶地下水通道三维电性成像 ..... 刘道涵, 徐俊杰, 齐信, 等 (1331)

### 其他

- 短文 ..... (1160)(1192)(1201)(1212)(1223)(1236)(1246)(1338)

# CARSOLOGICA SINICA

Vol. 42 No. 6 Dec. 2023

## CONTENTS

Structure and application of SWAT-MODFLOW coupling model for surface-groundwater	..... LIU Wenchong, ZHAO Liangjie, CUI Yali, et al(1138)
Research on water flow attenuation process and regulating capacity in karst vadose zone	..... ZHANG Yibo, WANG Jinguo, LIU Ruitong(1147)
Analysis of water environment dynamic characteristics and travertine deposition capacity in Huanglong core scenic spots	..... LIU Xinze, ZHANG Qingming, SUN Dong, et al(1159)
Evaluation system for the suitability of reservoir construction for pumped storage and optimization of its site selection in karst depressions	..... ZHANG Tao, ZUO Shuangying, SHEN Chunyong, et al(1171)
Characteristics of karst development and water abundance of the Beiya Gold Deposit in Heqing county of Yunnan	..... HE Xiang, DONG Xuelan, YANG Chao, et al(1182)
Equilibrium analysis and prediction evaluation of the Heilongtan groundwater system in Lijiang of northwestern Yunnan Province	..... REN Shichuan, YANG Xiaoyan, YANG Yingbin, et al(1191)
Characteristics of temperature field of the Heilongtan groundwater system in Lijiang	..... CHEN Xin, ZHENG Kexun, HAN Xiao, et al(1200)
Screening and isolation of carbonic anhydrase-producing microorganisms from rocky karst habitats	..... CHANG Kaiyun, WANG Zhongcheng, WEI Xiaomeng, et al(1211)
Stoichiometric characteristics of soil carbon, nitrogen and phosphorus in different stages of vegetation succession at karst graben basin of Yunnan Province, China	..... HU Lin'an, QIU Jiangmei, LI Qiang(1222)
Analysis of water inflow conditions and prediction for water inflow of deep-buried tunnels in the karst area of Southwest China: Taking Dapozi tunnel of central Yunnan Water Diversion Project as an example	..... LUO Yiming, CHENG Jianmei, XU Wenjie, et al(1235)
Application of different time series models to the prediction for mine water inflow in karst mountainous areas	..... ZOU Yinxian, CHU Xuewei, DUAN Xianqian, et al(1245)
Inversion of the fine in-situ stress field for deep-buried tunnel: A case study on the Jiangranshan tunnel of the Shuangjiang-Cangyuan express way in southwest Yunnan	..... LI Hongming, SUN Weifeng, ZHANG Hongri, et al(1257)
Numerical simulation on uniaxial compressive mechanical properties of karstified rock mass in epikarst zone	..... LENG Deming, SHI Wenbing, LI Hua, et al(1268)
Simulation analysis of mechanical influence of water level fluctuation in water-eroded groove on tunnel lining	..... CAI Zhiyan, WU Yimin, XU Peng, et al(1280)
Analysis of critical safety distance between tunnel and concealing filled karst cave in the karst area	..... WANG Wanfeng, YANG Yongtai, LU Yuquan, et al(1292)
Study on susceptibility of karst collapse based on normal cloud model in Yonghe town, Liuyang City	..... LU Yulong, YE Gaofeng, YANG Xian, et al(1302)
Control action of thrust fault to oil and gas accumulation in Hade block of the Fuman oilfield	..... LI Shiyin, LUO Xiao, WANG Peng, et al(1311)
Experiment for the differential dissolution of dolomite of Sinian Dengying Formation in the Gaoshiti–Moxi area, the Sichuan basin	..... LUO Wenjun, JI Shaocong, LIU Xixiang, et al(1320)
Application of the method of passive surface wave to the exploration of urban residential area	..... WU Jianqiang, CHEN Song, XU Junjie, et al(1329)
Three-dimensional electrical imaging of urban karst groundwater channels based on electrical resistivity tomography	..... LIU Daohan, XU Junjie, QI Xin, et al(1337)

**Editor-in-Chief :** Prof.JIANG Zhongcheng

**Duty Editor :** Prof.ZHANG Ling HUANG Chenhui YANG Yang

**English Translation Checked by** Miss ZHUANG Yan Prof.WANG Wei Miss CHEN Jingjing