

地球科学

2019年9月 第44卷 第9期

目次

中国西南岩溶区地下水功能可持续利用专辑

贵阳市岩溶地下水水化学演化机制:水化学和锶同位素证据·····	苏春利,张雅,马燕华,刘文波	(2829)
贵州岩溶山区城镇化进程中地下水的资源功能评价·····	何守阳,雷琨,吴攀,杨应增,韩志伟	(2839)
贵州主要碳酸盐岩含水层污染现状与特征·····	罗维,杨秀丽,宁黎元,杨荣康,犹俊	(2851)
黔西某煤层气开发区块产出水有毒有害元素污染特征及其环境效应 ·····	李清光,吴攀,顾尚义,刘沛,胡海洋,高为,龚朝兵,常溪溪	(2862)
黔东北地区地热水化学特征及起源·····	宋小庆,彭钦,段启杉,夏颜乐	(2874)
六盘水矿区关键带岩溶水水化学演化特征及驱动因子 ·····	叶慧君,张瑞雪,吴攀,韩志伟,查学芳,李学先,覃应机,石金芳	(2887)
典型岩溶小流域水体中硝酸盐分布特征及成因:以普定后寨河流域为例 ·····	李耕,韩志伟,申春华,曾祥颖	(2899)
岩溶地下水脆弱性评价的城镇化因子:以水城盆地为例·····	汪莹,罗朝晖,吴亚,李洁,顾棚	(2909)
水力压裂对地下水影响的深部脆弱性评价·····	芦红,王丽,杨鑫鑫,郝光,刘明柱	(2920)
西南喀斯特地区坡地产流过程及其利用技术·····	杨振华,宋小庆	(2931)
贵阳市城镇化进程与土地利用转变关系·····	陈娟,王龙,赵欣运,程胜高	(2944)
不同滤波方法对 GRACE 反演西南岩溶区陆地水储量变化的影响 ·····	张青全,潘云,宫辉力,郑龙群,诸云强	(2955)
* * * * *		
浙赣三山地区早—中奥陶世斑脱岩 SHRIMP 锆石 U-Pb 精确定年 ·····	唐增才,刘风龙,董学发,余盛强,赵旭东,胡开明,陈忠大,吴小勇	(2963)
黔东注溪黑色岩系地球化学特征及矿化富集规律 ·····	刘文,李欢,陈正山,冯运富,季国松,田永红	(2978)
石英 E' 心的热力学特征及其指示意义·····	邱登峰,刘全有,云金表,朱东亚,孟庆强,刘佳宜,孙冬胜	(2995)
西藏恰公矽卡岩铁矿床成矿流体特征及演化:对 Fe-Pb 矿化的约束 ·····	孙国平,吴运军,郑有业,徐净,李森,王彦锋	(3007)
四川天宝山矿床闪锌矿 Rb-Sr 年代学、稳定同位素及地质意义 ·····	王健,张均,张晓军,刘文浩,仲文斌,杨清,刘重芄	(3026)
粤北长江轴矿田辉长闪长岩的岩石成因及其与铀成矿的关系 ·····	钟福军,潘家永,巫建华,夏菲,伏顺成,祁家明,赵奇峰	(3042)
准噶尔盆地西北缘西山窑组烃类流体作用特征及其铀成矿意义 ·····	黄少华,秦明宽,许强,何中波,郭强	(3060)
湘中地区南华系沉积序列、物源特征及区域对比·····	宋芳,牛志军,何焱,杨文强	(3074)
辽东湾拗陷新近系特一超稠油油藏特征及形成机理·····	王冰洁,徐长贵,吴奎,张如才,刘丰	(3088)
西太平洋深水盆地海水及孔隙水的微量元素地球化学特征 ·····	邓义楠,任江波,郭庆军,王海峰,于哲,刘晨晖	(3101)
随机森林与 GIS 的泥石流易发性及可靠性·····	张书豪,吴光	(3115)
三峡库区典型滑坡地球物理实测及其意义:以万州区四方碑滑坡为例 ·····	林松,王薇,邓小虎,查雁鸿,周红伟,程邈	(3135)
内蒙狼山成矿带地球物理场特征 ·····	张振宇,王书民,朱威,胡祥云,王刚,姚大为,王大勇,李永博	(3147)
· 其他 ·		
《地球科学》2019年10月第44卷第10期要目预告·····		(2930)

EARTH SCIENCE

Vol.44 No.9 Sept. 2019

CONTENTS

Sustainable Use of Groundwater Function in Karst Area of Southwest China

- Hydrochemical Evolution Processes of Karst Groundwater in Guiyang City: Evidences from Hydrochemistry and ⁸⁷Sr/⁸⁶Sr Ratios
..... *Su Chunli, Zhang Ya, Ma Yanhua, Liu Wenbo* (2829)
- Evaluation on Resources Function of Groundwater during Urbanization in Karst Region of Guizhou Province
..... *He Shouyang, Lei Kun, Wu Pan, Yang Yingzeng, Han Zhiwei* (2839)
- Pollution Status and Characteristics of Main Carbonate Aquifers in Guizhou Province
..... *Luo Wei, Yang Xiuli, Ning Liyuan, Yang Rongkang, You Jun* (2851)
- Pollution Characteristics of Toxic and Harmful Elements and Its Environmental Impact in Water Co-Produced from Coalbed Methane Wells in the CBM Development Block in Western Guizhou *Li Qingguang, Wu Pan, Gu Shangyi, Liu Pei, Hu Haiyang, Gao Wei, Gong Chaobing, Chang Xixi* (2862)
- Hydrochemistry Characteristics and Origin of Geothermal Water in Northeastern Guizhou
..... *Song Xiaoping, Peng Qin, Duan Qishan, Xia Yanle* (2874)
- Characteristics and Driving Factor of Hydrochemical Evolution in Karst Water in the Critical Zone of Liupanshui Mining Area
..... *Ye Huijun, Zhang Ruixue, Wu Pan, Han Zhiwei, Zha Xuefang, Li Xuexian, Qin Yingji, Shi Jinfang* (2887)
- Distribution Characteristics and Causes of Nitrate in Waters of Typical Small Karst Catchment; A Case of the Houzhai River Catchment *Li Geng, Han Zhiwei, Shen Chunhua, Zeng Xiangying* (2899)
- Urbanization Factors of Groundwater Vulnerability Assessment in Karst Area: A Case Study of Shuicheng Basin
..... *Wang Ying, Luo Zhaohui, Wu Ya, Li Jie, Gu Xu* (2909)
- Deep Vulnerability Assessment of Hydraulic Fracturing Effect on Groundwater
..... *Lu Hong, Wang Li, Yang Xinxin, Hao Guang, Liu Mingzhu* (2920)
- Slope Runoff Process and Its Utilization Technology in Southwest Karst Area *Yang Zhenhua, Song Xiaoping* (2931)
- The Relationship between Urbanization and Land Use in Guiyang City *Chen Juan, Wang Long, Zhao Xinyun, Cheng Shenggao* (2944)
- The Impact of Different GRACE Filtering Methods on Inverting Terrestrial Water Storage Change in Southwestern Karst Area
..... *Zhang Qingquan, Pan Yun, Gong Huili, Zheng Longqun, Zhu Yunqiang* (2955)
- * * * * *
- SHRIMP U-Pb Zircon Dating for the Early-Middle Ordovician K-Bentonites in Jiangshan-Changshan-Yushan, Zhejiang-Jiangxi Border Area *Tang Zengcai, Liu Fenglong, Dong Xuefa, Yu Shengqiang, Zhao Xudong, Hu Kaiming, Chen Zhongda, Wu Xiaoyong* (2963)
- Geochemical Characteristics and Metal Enrichment Rules of Black Shales in the Zhuxi Vanadium Ore Field, Eastern Guizhou
..... *Liu Wen, Li Huan, Chen Zhengshan, Feng Yunfu, Ji Guosun, Tian Yonghong* (2978)
- The Thermodynamic Characteristics of Quartz E' Center and Their Significance
..... *Qiu Dengfeng, Liu Quanyou, Yan Jinbiao, Zhu Dongya, Meng Qingqiang, Liu Jiayi, Sun Dongsheng* (2995)
- Ore-Forming Fluids Signature and Evolution in the Qiaogong Fe Skarn Deposit of the Gangdese Belt, Tibet: Implications for Fe-Pb Mineralization *Sun Guoping, Wu Yunjun, Zheng Youye, Xu Jing, Li Miao, Wang Yanfeng* (3007)
- Rb-Sr Geochronology, Stable Isotopic Analyses and Geological Significance of the Tianbaoshan Pb-Zn Deposit in Sichuan Province, China *Wang Jian, Zhang Jun, Zhang Xiaojun, Liu Wenhao, Zhong Wenbin, Yang Qing, Liu Chongpeng* (3026)
- Petrogenesis and Its Relationship with Uranium Mineralization of Gabbro-Diorite in Changjiang Uranium Ore-Field, Northern Guangdong Province, China *Zhong Fujun, Pan Jiayong, Wu Jianhua, Xia Fei, Fu Shuncheng, Qi Jiaming, Zhao Qifeng* (3042)
- Hydrocarbon Fluid Geological Characteristics of the Xishanyao Formation and Its Uranium Metallogenic Significance, Northwest Junggar Basin *Huang Shaohua, Qin Mingkuan, Xu Qiang, He Zhongbo, Guo Qiang* (3060)
- Sedimentary Sequence, Provenance and Stratigraphic Correlation of Nanhuan System in Middle Hunan Province
..... *Song Fang, Niu Zhijun, He Yaoyan, Yang Wenqiang* (3074)
- The Neogene Extra-Super Heavy Oil Reservoir Characteristics and Formation Mechanism in Liaodong Bay Depression
..... *Wang Bingjie, Xu Changgui, Wu Kui, Zhang Rucai, Liu Feng* (3088)
- Trace Elements Geochemistry Characteristics of Seawater and Porewater in Deep-Water Basin, Western Pacific
..... *Deng Yinan, Ren Jiangbo, Guo Qingjun, Wang Haifeng, Yu Zhe, Liu Chenhui* (3101)
- Debris Flow Susceptibility and Its Reliability Based on Random Forest and GIS *Zhang Shuhao, Wu Guang* (3115)
- Geophysical Observation of Typical Landslides in Three Gorges Reservoir Area and Its Significance: A Case Study of Sifangbei Landslide in Wanzhou District *Lin Song, Wang Wei, Deng Xiaohu, Zha Yanhong, Zhou Hongwei, Cheng Miao* (3135)
- The Geophysical Field Characteristics of Langshan Metallogenic Belt in Inner Mongolia
..... *Zhang Zhenyu, Wang Shumin, Zhu Wei, Hu Xiangyun, Wang Gang, Yao Dawei, Wang Dayong, Li Yongbo* (3147)