



地质学报

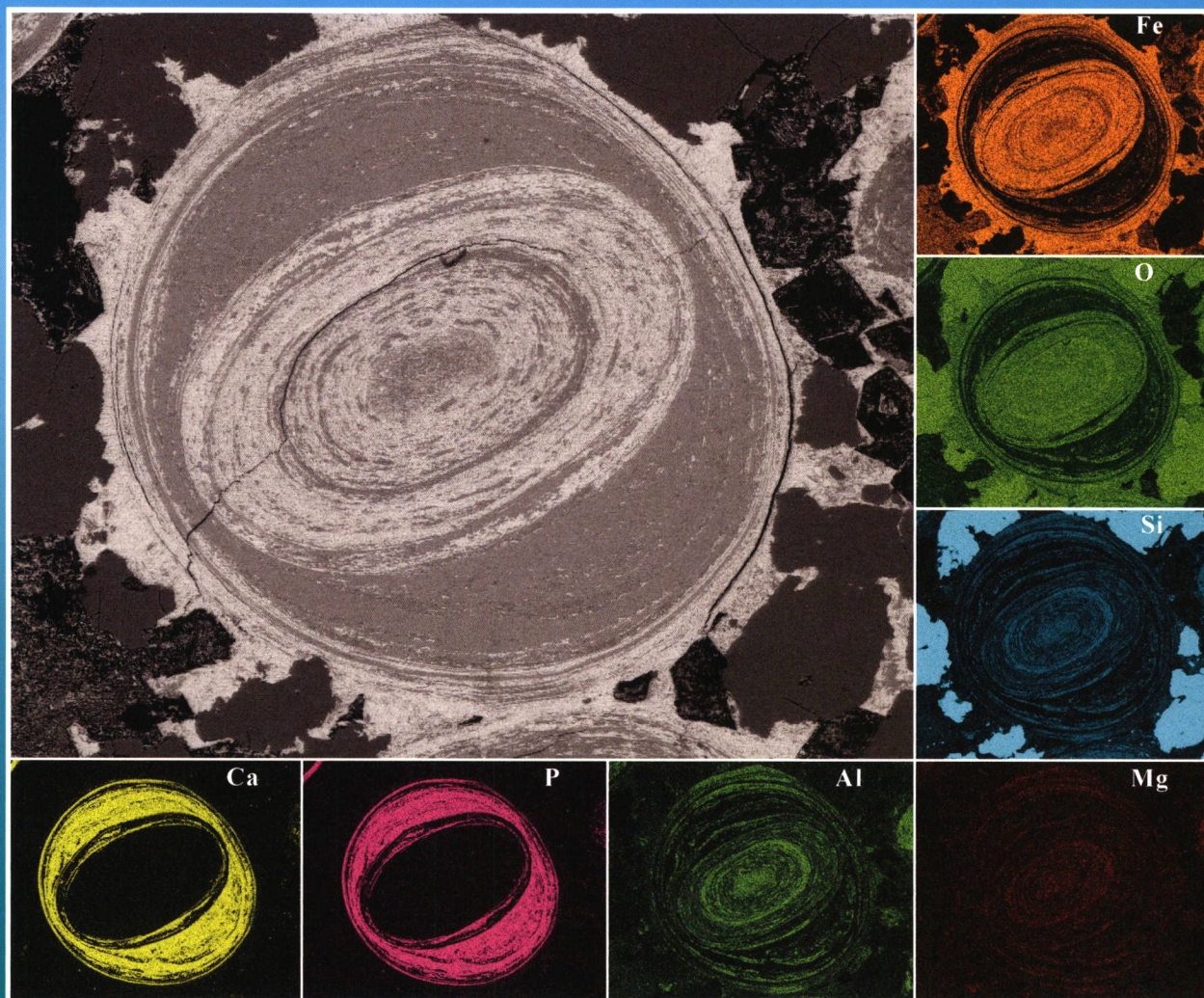
ISSN 0001-5717

ACTA GEOLOGICA SINICA

第95卷 第8期

Vol.95 No.8

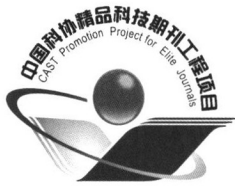
2021



中国地质学会 主办
《地质学报》编辑委员会 编辑



科学出版社 出版



地质学报

2021年 第95卷 第8期

目次

综述

- 陆相页岩层系石油富集区带优选、甜点区段评价与关键技术应用 杨智,唐振兴,李国会,贾希玉,吴颜雄,陈旋,黄东,江涛,方向,王岚,吴因业,吴松涛,付蕾,李嘉蕊,李奇艳,赵家宏,王天煦 (2257)
- 慢速-超慢速扩张洋中脊热液活动及其机理 宋珏琛,李江海,冯博 (2273)
- 中国铝土矿含铝岩系伴生稀土资源分布特征及富集机制 唐波,付勇,龙克树,龙珍,王天顺,刘阳,杨颖 (2284)
- 鼓丘和巨型冰川线理的冰川摩擦学:剥蚀和沉积的争论之谜得到解决? 周维维, Nick EYLES, Shane SOOKHAN, Niko PUTKINEN (2306)

研究论文

- 四川广元侏罗纪甘氏四川龙(兽脚类:巨齿龙科)肱骨骨干的骨组织特点及其生物指示意义 杨春燕,刘建,张玉光 (2318)
- 右江盆地西北缘安然背斜东段奥伦尼克期牙形石生物地层研究及地质意义 向坤鹏,安亚运,贺永忠,赵磊,刘奎勇,盘应娟,易成兴 (2333)
- 1948年川西理塘 M 7.3 地震地表破裂特征及 Riedel 剪切构造分析 刘亢,李岩峰,郭辉文,张迎峰 (2346)
- Rodinia 超大陆裂谷裂陷高潮与裂-拗转换:来自塔里木西北缘阿克苏地区碎屑锆石的制约 刘博,张文高,陈正乐,袁峰,韩凤彬,霍海龙,李季霖 (2361)
- 吉林省张广才岭塔东岩群年代学:Rodinia 超大陆裂解的响应 付俊彧,孙巍,杨帆,那福超,葛锦涛,钟辉 (2380)
- 龟山杂岩的形成时代、构造属性及变质条件:对秦岭-桐柏造山带构造演化的指示 李加好,邓聚,王晴,杨挺宇,任升莲,宋传中,谭静,陈守文 (2396)
- 闽西武夷山建宁-泰宁地区白垩纪火山-沉积序列:对华南东部晚中生代构造演化的制约 任俊,张岳桥 (2411)
- 豫西汝阳群、洛峪群碎屑锆石年代学特征及其地质意义 刘欢,李怀坤,田辉,常青松,张健 (2436)
- 新疆西准噶尔乌尔禾地区早二叠世 A₁ 型花岗岩成因及其地质意义 支倩,李永军,段丰浩,王盼龙,张誉洋 (2453)
- 小兴安岭-张广才岭成矿带福安堡钼矿区花岗岩类的岩石成因和构造背景:元素地球化学、锆石 U-Pb 年龄和 Sr-Nd-Hf 同位素约束 张立仕,孙丰月,李碧乐,钱烨,张雅静,王力,王琳琳 (2471)
- 鲕状铁建造的特征与形成机制——以鄂西泥盆系火烧坪铁矿床为例 甘凯,吴昌志,杨涛,刘浩存,叶辉,向萌,刘家润,李伟强 (2493)
- 陕西勉县庙坪石墨矿床地球化学特征及成矿机制研究 汤贺军,张宝林,吴珍汉,孟贵祥,张国梁,张文斌 (2509)
- 二连盆地中部古河道砂岩型铀矿综合地球物理响应特征研究 吴曲波,陈聪,杨龙泉,喻翔,高玲举,周俊杰,李必红,汪硕,刘武生 (2521)
- 鄂尔多斯盆地志丹地区安定组泥灰岩地球化学特征及古环境意义 汤超,肖鹏,魏佳林,徐增连,刘华健,赵丽君 (2537)
- 中国华南陡山沱组烃源岩的形成机制与分布预测 朱光有,赵坤,李婷婷,张志遥 (2553)
- 廊固凹陷奥陶系潜山不整合输导特征与油气优势运聚方向 杨德相,李振明,田建章,王元杰,李凯茜,张传宝,明锦,贾颖超,边滢滢 (2575)
- 三峡库区消落带溶蚀岩体劣化指标研究 殷跃平,黄波林,李滨,张枝华,闫国强,郑嘉豪 (2590)
- 成都市中心城区第四系三维地质模型构建与隐伏断裂分析 王世明,张明,林刚,吴腾飞,宋同伟,裴秋明,巫锡勇 (2601)

技术方法

- 短波红外光谱技术在斑岩-高硫化型浅成低温热液矿床中的应用——以西藏铁格隆南超大型铜(金)矿床为例 唐楠,林彬,李玉彬,王艺云,李佳俊 (2613)
- 薄层砂岩含气性多维信息加权约束地震反演辨识方法及应用——以鄂尔多斯盆地庆北地区山西组一段为例 李勇根,张朝军,曾庆才,孙殿新 (2628)

封面照片说明:鲕粒扫描电镜和主量元素能谱面扫描图像。鲕状铁建造(Ooidal Ironstones)产于高能浅水环境,通常由具层圈组结构的铁质鲕粒组成。图中鲕粒产自湖北省长阳县火烧坪铁矿上泥盆统写经寺组泥灰岩中的鲕状铁建造(吴昌志提供)

本期执行总编辑:周健 编辑:李曼,潘静,郭现轻,蔡志慧 技术编辑:刘萌

万方数据

CONTENTS

Review

- Optimization of enrichment plays, evaluation of sweet area & section and application of key technologies for the continental shale strata oil in China YANG Zhi, TANG Zhenxing, LI Guohui, JIA Xiyu, WU Yanxiong, CHEN Xuan, HUANG Dong, JIANG Tao, FANG Xiang, WANG Lan, WU Yinye, WU Songtao, FU Lei, LI Jiarui, LI Qiyang, ZHAO Jiahong, WANG Tianxu (2272)
- Hydrothermal activity and mechanism along slow- and ultraslow-spreading mid-ocean ridges SONG Juechen, LI Jianghai, FENG Bo (2283)
- Distribution characteristics and enrichment mechanism of associated rare earth elements resource in aluminum-bearing rock series in bauxite deposits of China TANG Bo, FU Yong, LONG Keshu, LONG Zhen, WANG Tianshun, LIU Yang, YANG Ying (2305)
- Glaciotribology of drumlins and megascale glacial lineations: an enigma solved? ZHOU Weiwei, Nick EYLES, Shane SOOKHAN, Niko PUTKINEN (2317)

Research Articles

- The humeral diaphyseal histology and its biometric significance of Jurassic *Szechuanosaurus campi* (Theropoda, Megalosauridae) in Guangyuan City, Sichuan Province YANG Chunyan, LIU Jian, ZHANG Yuguang (2332)
- The conodont biostratigraphic study and its geological significance in the Olenekian stage, east of the Anran anticline, northwest margin of the Youjiang basin XIANG Kunpeng, AN Yayun, HE Yongzhong, ZHAO Lei, LIU Kuiyong, PAN Yingjuan, YI Chengxing (2345)
- Determination of surface rupture length and analysis of Riedel shear structure of the Litang M 7.3 earthquake in west Sichuan in 1948 LIU Kang, LI Yanfeng, GUO Huiwen, ZHANG Yingfeng (2360)
- The climax of the taphrogenesis stage and the taphrogenesis-depression transition of the Rodinia supercontinent rift: evidence from detrital zircons in the Aksu area, northwestern Tarim basin LIU Bo, ZHANG Wengao, CHEN Zhengle, YUAN Feng, HAN Fengbin, HUO Hailong, LI Jilin (2379)
- Chronology of the Tadong rock group in Zhangguangcai Ridge, Jilin Province: response to the breakup of the Rodinia supercontinent FU Junyu, SUN Wei, YANG Fan, NA Fuchao, GE Jintao, ZHONG Hui (2395)
- The formation age, tectonic attributes and metamorphic conditions of the Guishan complex: implications for the tectonic evolution of the Qinling-Tongbai orogenic belt LI Jiahao, DENG Ju, WANG Qing, YANG Tingyu, REN Shenglian, SONG Chuazhong, TAN Jing, CHEN Shouwen (2410)
- Cretaceous volcano-sedimentary sequences in the Jianing-Taining region of Mts Wuyi, western Fujian: constraint on Late Mesozoic tectonic evolution of SE China REN Jun, ZHANG Yueqiao (2435)
- Detrital zircon geochronological characteristics of Ruyang and Luoyu Group from western Henan Province and its geological significance LIU Huan, LI Huaikun, TIAN Hui, CHANG Qingsong, ZHANG Jian (2452)
- Petrogenesis and its geological implications of Early Permian A₁-type granite in Urho area, western Junggar, Xinjiang ZHI Qian, LI Yongjun, DUAN Fenghao, WANG Panlong, ZHANG Yuyang (2470)
- Petrogenesis and tectonic setting of granitoids in the Fu'anpu molybdenum deposit, Lesser Xing'an-Zhangguangcai Range metallogenic belt: constraints from element geochemistry, zircon U-Pb geochronology and Sr-Nd-Hf isotopes ZHANG Lishi, SUN Fengyue, LI Bile, QIAN Ye, ZHANG Yajing, WANG Li, WANG Linlin (2492)
- Characteristics and formation mechanism of ooidal ironstones: indications from the Huoshaoping iron deposit, western Hubei Province, China GAN Kai, WU Changzhi, YANG Tao, LIU Haocun, YE Hui, XIANG Meng, LIU Jiarun, LI Weiqiang (2508)
- Geochemical characteristics and genetic mechanism of the Miaoping graphite deposit in the Mianxian County of Shaanxi Province TANG Hejun, ZHANG Baolin, WU Zhenhan, MENG Guixiang, ZHANG Guoliang, ZHANG Wenbin (2520)
- Study of integrated geophysical characteristics of paleo-valley sandstone-type uranium deposits in the middle of the Erenhot basin WU Qubo, CHEN Cong, YANG Longquan, YU Xiang, GAO Lingju, ZHOU Junjie, LI Bihong, WANG Shuo, LIU Wusheng (2536)
- Geochemical characteristics and paleoenvironmental significance of marls from the Anding Formation in the Zhidan area, Ordos basin TANG Chao, XIAO Peng, WEI Jialin, XU Zenglian, LIU Huajian, ZHAO Lijun (2552)
- Formation mechanism and distribution prediction of source rocks in the Ediacaran Doushantuo Formation, South China ZHU Guangyou, ZHAO Kun, LI Tingting, ZHANG Zhiyao (2574)
- Unconformity characteristics and the dominant migration and accumulation direction of the Ordovician buried hill in the Langgu depression YANG Dexiang, LI Zhenming, TIAN Jianzhang, WANG Yuanjie, LI Kaixi, ZHANG Chuanbao, MING Jin, JIA Yingchao, BIAN Yingying (2589)
- Research on the deterioration index of karst rock mass in the fluctuating water level zone of Three Gorges Reservoir area YIN Yueping, HUANG Bolin, LI Bin, ZHANG Zhihua, YAN Guoqiang, ZHENG Jiahao (2600)
- Construction of Quaternary 3D geological model and analysis of buried faults in the urban area of Chengdu WANG Shiming, ZHANG Ming, LIN Gang, WU Tengfei, SONG Tongwei, PEI Qiuming, WU Xiyong (2612)

Technical Method

- Application of short-wavelength infrared spectroscopy in porphyry-epithermal system: a case study of Tiegelongnan super-large copper (gold) deposit, Tibet TANG Nan, LIN Bin, LI Yubin, WANG Yiyun, LI Jiajun (2627)
- Identification method of gas bearing property of thin tight sandstone based on comprehensive analysis of geology and geophysics: a case study on the 1st Member of Shanxi Formation in North Qingcheng area of Ordos basin LI Yonggen, ZHANG Chaojun, ZENG Qingcai, SUN Dianxin (2640)



《地质学报》中文版自 2016 年起被 EI 收录，
欢迎广大地质科技人员踊跃投稿！

《地质学报》编辑委员会 Editorial Board of ACTA GEOLOGICA SINICA

主 编	Editor in Chief	杨经绥	YANG Jingsui				
副主编	Deputy Editors in Chief	毕献武	BI Xianwu	范宏瑞	FAN Hongrui	刘俊来	LIU Junlai
		邱楠生	QIU Nansheng	任 东	REN Dong	吴才来	WU Cailai
		张招崇	ZHANG Zhaochong	周 健	ZHOU Jian(常务)	张永双	ZHANG Yongshuang
委 员	Members of Editorial Board						
陈建平	CHEN Jianping	陈 骏	CHEN Jun	陈世悦	CHEN Shiyue	代世峰	DAI Shifeng
杜远生	DU Yuansheng	丰成友	FENG Chengyou	郭福生	GUO Fusheng	黄宝春	HUANG Baochun
姜振学	JIANG Zhenxue	蒋忠诚	JIANG Zhongcheng	李广雪	LI Guangxue	李海兵	LI Haibing
李金发	LI Jinfa	李文昌	LI Wenchang	李文鹏	LI Wenpeng	李献华	LI Xianhua
李子颖	LI Ziyang	凌洪飞	LING Hongfei	刘树根	LIU Shugen	刘正宏	LIU Zhenghong
庞忠和	PANG Zhonghe	裴先治	PEI Xianzhi	单新建	SHAN Xinjian	邵 磊	SHAO Lei
史长义	SHI Changyi	孙龙德	SUN Longde	孙晓明	SUN Xiaoming	童金南	TONG Jinnan
万 力	WAN Li	王登红	WANG Denghong	王京彬	WANG Jingbin	王向东	WANG Xiangdong
王 原	WANG Yuan	魏春景	WEI Chunjing	吴能友	WU Nengyou	吴元保	WU Yuanbao
吴珍汉	WU Zhenhan	许 强	XU Qiang	徐则民	XU Zemin	邢光福	XING Guangfu
邢树文	XING Shuwen	熊盛青	XIONG Shengqing	许文良	XU Wenliang	徐义刚	XU Yigang
殷跃平	YIN Yueping	张光学	ZHANG Guangxue	张宏飞	ZHANG Hongfei	张君峰	ZHANG Junfeng
张铭杰	ZHANG Mingjie	张兴亮	ZHANG Xingliang	张岳桥	ZHANG Yueqiao	郑建平	ZHENG Jianping
周忠和	ZHOU Zhonghe	朱 光	ZHU Guang	朱立新	ZHU Lixin	朱日祥	ZHU Rixiang
邹才能	ZOU Caineng						

《地质学报》编辑部 Editorial Office of ACTA GEOLOGICA SINICA

编辑部主任	Director of Editorial Office	周 健	ZHOU Jian				
编辑部成员	Members of Editorial Office	蔡志慧	CAI Zhihui	方 向	FANG Xiang	费红彩	FEI Hongcai
郭现轻	GUO Xianqing	李 曼	LI Man	刘 萌	LIU Meng	刘志强	LIU Zhiqiang
Sushma Prasad		吴 蕾	WU Lei	章雨旭	ZHANG Yuxu	周 健	ZHOU Jian

地 质 学 报
Dizhi Xuebao

(月刊 1922 年创刊)

第 95 卷 第 8 期 2021 年 8 月 15 日出版

ACTA GEOLOGICA SINICA

(Vol. 95 No. 8 2021)

(Monthly, Started in 1922)

Published on August 15, 2021

主 管 中国科学技术协会
主 办 中国地质学会
编 辑 《地质学报》编辑委员会
编辑部地址 北京阜成门外百万庄路 26 号
邮政编码:100037;电话:010-68312410
电子信箱:dizhixuebao@163.com

主 编 杨 经 绥
出 版 科 学 出 版 社
排 版 《地质学报》编辑部
印刷装订 北京盛通印刷股份有限公司
总发行处 北京报刊发行局
订购处 全国各邮电局
国外总发行 中国国际图书贸易总公司
(中国 国际书店)
北京 399 号信箱, 邮政编码:100044

Competent Authorities: China Association for Science and Technology
Sponsored by Geological Society of China
Edited by Editorial Board of ACTA GEOLOGICA SINICA,
26, Baiwanzhuang Road, Beijing, 100037, China
Tel.: 010-68312410
E-mail: dizhixuebao@163.com

Editor in chief YANG Jingsui
Published by Science Press
Composed by Editorial Office of ACTA GEOLOGICA SINICA
Printed by Beijing Shengtong Printing Co., Ltd.
Distributed by Beijing Bureau for Distribution of
Newspapers and Journals

Subscription handled by Local Post Offices of China
China International Book Trading
Corporation (Guoji Shudian)
Distributed abroad by P. O. Box 399, Beijing 100044, China
International Periodical No.: M78

国际标准连续出版物号:ISSN 0001-5717
国内统一连续出版物号:CN 11-1951/P

国内邮发代号:2-113
国外发行代号:M 78

ISSN 0001-5717



国内外公开发行 定价:80.00 元