



ISSN 0371-5736



GEOLOGICAL REVIEW

第 66 卷 第 5 期

Vol.66 No.5

2020



中国地质学会
《地质论评》编辑委员会
科学出版社

主办
编辑
出版



地质论评

2020年第66卷第5期

目次

专题细解 (羌塘盆地油气地质 本栏特约执行主编:王剑)

青藏高原羌塘盆地沉积和油气地质(前言)	王剑(1089)
论羌塘盆地油气勘探前景	王剑,付修根,沈利军,谭富文,宋春彦,陈文彬(1091)
羌塘盆地侏罗系—白垩系岩石地层格架厘定	薛伟伟,马安林,胡修棉(1114)
羌塘中生代盆地大洋缺氧事件及全球对比	付修根,王剑,曾玉红,宋春彦,曾胜强(1130)
羌塘地块白垩纪剥蚀—冷却事件	郑波,陈文彬,王增振,冯丽霞,张艳雄,万友利,吴林(1143)
羌塘中部陆相红层时代的 U-Pb 年龄约束	赵珍,吴珍汉,杨易卓,季长军(1155)
羌塘中部白措花岗岩岩石地球化学特征、锆石 U-Pb 年龄和 Hf 同位素组成及其构造意	李学仁,万友利,王剑(1172)
羌塘盆地中侏罗统砂糖状白云岩流体包裹体碳—氧同位素分析及白云岩成因机制讨论	季长军,陈程,吴珍汉,伊海生,夏国清,赵珍(1186)
羌塘盆地北缘上三叠统藏夏河组沉积物源及构造背景分析	王忠伟,占王忠,高远,余飞,肖杨(1199)
封闭系统中的白云石化作用过程及其油气地质意义——以南羌塘拗陷中侏罗统布曲组白云岩为例	孙伟,陈明,万友利,何江林,兰叶芳,卫红伟,陈浩(1217)
西藏羌塘盆地上侏罗统索瓦组油藏发现及地球化学特征	杨易卓,赵珍,吴珍汉,唐友军(1230)
西藏南羌塘坳陷泥质烃源岩评价及有利生烃区预测	李高杰,夏国清,伊海生,季长军,杨嘉宝(1241)
北羌塘坳陷早—中侏罗世雀莫错期岩相古地理特征与成钾意义	占王忠,谭富文(1261)
羌塘盆地马牙山沥青脉地球化学特征及其指示意义	彭清华,杜佰伟,谢尚克,郑博(1275)

学术讨论

滇中甸中地区中二叠世晚期镁铁—超镁铁质岩体特征及其与峨眉地幔柱关系——来自锆石 U-Pb 年龄及岩石地球化学证据	刘军平,王晓峰,王小虎,杨爱平,宋冬虎,田素梅,夏彩香,张坤,杨仕潘(1284)
四川攀枝花铁矿碳酸岩的发现和确认——地质特征、斜锆石 U-Pb 年龄、C—O 同位素组成证据	王生伟,孙晓明,周清,李艳广,付宇,朱斯豹,王坤,郭阳,刘宇杰,马龙,黄景厚(1299)
大兴安岭中南段构造岩浆岩带深部地质成矿作用	苏美霞,杨波,吴艳君,颜萍,孟晓玲(1321)
中国地质灾害成因分析	刘传正,陈春利(1334)
基于隐函数曲面的三维断层网络建模与不确定性分析	邹艳红,李高智,毛先成,陈玉婷(1349)

科技述评

地热与热液型铀矿成因联系:研究现状及解决方法	李燕燕,多吉,张成江,池国祥,王贵玲,张方方,邢一飞,张保建(1361)
------------------------------	--------------------------------------

研究进展

湘中杏枫山金矿床流体包裹体特征及其对矿床成因的指示	肖静芸,彭建堂,胡阿香,木兰(1376)
四川盆地西南缘龙马溪组泥岩地球化学特征及物源区和构造背景分析	张茜,肖渊甫,王晓飞,余谦,王剑,赵安坤,门玉澎,周业鑫(1393)
伊拉克 X 油田上白垩统 Kh2 段碳酸盐岩孔隙结构及其对原油动用的影响	王翼君,唐洪明,卢浩,于魏铭(1412)
黔西南烂泥沟金矿田构造变形及演化分析	郑爽,胡煜昭,管申进,刘晓震(1431)
河南尉氏县西部地质地球物理综合解译及地热资源远景区预测	刘志龙,朱怀亮,胥博文,叶高峰,胡志明,李文龙,王兴元(1446)

通讯资料 · 消息报道 · 新书介绍

《地质学报》(英文版)评选出 2019 年度优秀论文	(1198)
----------------------------------	--------

GEOLOGICAL REVIEW

Vol. 66 No. 5 2020

CONTENTS

Theme Paper: Oil and gas geology of the Qiangtang Basin, Xizang(Tibet)

(Guest executive chief editor of this column: WANG Jian)

Sedimentary and oil—gas geology of the Qiangtang Basin, Qinghai—Xizang(Tibet) Plateau	WANG Jian(1089)
Prospect of the potential of oil and gas resources in Qiangtang Basin, Xizang(Tibet)	
..... WANG Jian, FU Xiugen, SHEN Lijun, TAN Fuwen, SONG Chunyan, CHEN Wenbin(1113)	
The redefinition of the Jurassic—Cretaceous lithostratigraphic framework in the Qiangtang Basin, Xizang Plateau	
..... XUE Weiwei, MA Anlin, HU Xiumian(1129)	
Oceanic anoxic events in the Mesozoic Qiangtang Basin and global comparison	
..... FU Xiugen, WANG Jian, ZENG Yuhong, SONG Chunyan, ZENG Shengqiang(1141)	
Cretaceous denudation—cooling in Qiangtang Block	
..... ZHENG Bo, CHEN Wenbin, WANG Zengzhen, FENG Lixia, ZHANG Yanxiong, WAN Youli, WU Lin(1153)	
Establishing the chronostratigraphic framework of the continental red beds in Central Qiangtang Basin: Constrained by zircon	
U-Pb ages	ZHAO Zhen, WU Zhenhan, YANG Yizhuo, JI Changjun(1170)
Petrogeochemical characteristics, zircon U-Pb ages and Hf isotopic composition of Baicuo granites in central Qiangtang Basin,	
and its tectonic significance	LI Xueren, WAN Youli, WANG Jian(1185)
Carbon and oxygen isotopes analysis of the fluid inclusions in Middle Jurassic saccharoidal dolostone of Qiangtang Basin and	
discussion on the genesis of dolostone	
..... JI Changjun, CHEN Cheng, WU Zhenhan, YI Haisheng, XIA Guoqing, ZHAO Zhen(1197)	
Provenance and tectonic setting analysis of the Upper Triassic Zangxiahe Formation sandstone in the Northern Qiangtang Basin	
..... WANG Zhongwei, ZHAN Wangzhong, GAO Yuan, YU Fei, XIAO Yang(1215)	
Closed-system dolomitization process and the significance for petroleum geology—An example from dolostone in the Middle	
Jurassic Buqu Formation in southern Qiangtang Depression	
..... SUN Wei, CHEN Ming, WAN Youli, HE Jianglin, LAN Yefang, WEI Hongwei, CHEN Hao(1229)	
Discovery and geochemical characteristics of the Upper Jurassic Suowa Formation reservoir in Qiangtang Basin, Xizang(Tibet)	
..... YANG Yizhuo, ZHAO Zhen, WU Zhenhan, TANG Youjun(1240)	
Characteristics of the Mesozoic marine argillaceous source rocks and prediction of favorable hydrocarbon generation area in	
South Qiangtang Depression, Xizang(Tibet)	LI Gaojie, XIA Guoqing, YI Haisheng, JI Changjun, YANG Jiabao(1259)
Evolution of lithofacies paleogeography of the Early—Middle Jurassic Quemocuo Formation in the North Qiangtang Basin	
and its implication of potash formation	ZHAN Wangzhong, TAN Fuwen(1274)
Geochemical characteristics of bitumen in Mayashan area in Qiangtang Basin and its indicative significance	
..... PENG Qinghua, DU Baiwei, XIE Shangke, ZHENG Bo(1282)	

Scholarly Discussion

Characteristics of the late Middle Permian mafic—ultramafic rocks in Dianzhong area, central Yunnan, and their relationship	
with the Emei Mantle Plume—Evidence from zircon U-Pb age and petrogeochemistry	
..... LIU Junping, WANG Xiaofeng, WANG Xiaohu, YANG Aiping, SONG Donghu, (1298)	
..... TIAN Sumei, XIA Caixiang, ZHANG Kun, YANG Shipan	
Discovery and identification of the carbonatites in Panzhihua iron deposit, Sichuan—Evidences of geological characteristics, U-Pb	
ages of baddeleyite and C—O isotopic composition	
..... WANG Shengwei, SUN Xiaoming, ZHOU Qing, LI Yanguang, FU Yu, ZHU Sibao, (1319)	
..... WANG Kun, GUO Yang, LIU Yujie, MA Long, HUANG Jinghou	
Deep mineralization processes in the central—south Great Hinggan magmatic belt	
..... SU Meixia, YANG Bo, WU Yanjun, YAN Ping, MENG Xiaoling(1333)	

Research on the origins of geological disasters in China LIU Chuanzheng, CHEN Chunli(1348)

Three-dimensional fault-network modeling and uncertainty analysis based on implicit function surface
..... ZOU Yanhong, LI Gaozhi, MAO Xiancheng, CHEN Yuting(1360)

Scientific Review

Genetic relationship between geothermal energy and hydrothermal uranium deposits; research progress and method
LI Yanyan, DUO Ji, ZHANG Chengjiang, CHI Guoxiang, WANG Guiling, ZHANG Fangfang, XING Yifei, ZHANG Baojian(1375)

Research Progress

Characteristics of fluid inclusions of the Xingfengshan Gold Deposit,central Hunan,and its genetic implications
..... XIAO Jingyun,PENG Jiantang,HU Axiang,MU Lan(1391)

Geochemistry of the Longmaxi Formation mudstones of the southwest Sichuan Basin: Implications for provenance and source
weathering
ZHANG Qian, XIAO Yuanfu, WANG Xiaofei, YU Qian, WANG Jian, ZHAO Ankun, MENG Yupeng, ZHOU Yexin(1410)

A study on the pore structure of carbonate rocks and its effect on oil movability in the Kh2 Member of Upper Cretaceous
Khasib Formation in X oilfield, Iraq WANG Yijun, TANG Hongming, LU Hao, YU Weiming(1430)

Structural deformation and evolution of the Lannigou Gold Orefield in southwestern Guizhou
..... ZHENG Shuang, HU Yuzhao, GUAN Shenjin, LIU Xiaozhen(1444)

Comprehensive geological and geophysical interpretation and geothermal resources prospection of western Weishi County,
Henan Province
..... LIU Zhinglong, ZHU Huailiang, XU Bowen, YE Gaofeng, HU Zhiming, LI Wenlong, WANG Xingyuan (1455)

Correspondence • Reference • News Report • Introduction to New Book

2019’s excellent papers of *Acta Geologica Sinica (English edition)* selected (1198)

Excutive editors of this issue: ZHANG Yuxu,LIU Zhiqiang; figures editors: WU Lei,ZHAO Xue;
format design and type setting: ZHANG Yuxu,LIU Zhiqiang, HUANG Daomao, LIU Meng