

ISSN 1005-2321

CN 11-3370 / P

CODEN DQIIA7



地球前缘

EARTH SCIENCE FRONTIERS

2018 4

主办
中国地质大学（北京）
北京大学

2018年 第25卷 第4期



万方数据

《地学前缘》
非主题来稿选登
2018年7月 第25卷 第4期

目次

岩(矿)石、地层特征及地质意义

- 1 初论微陆块在中亚造山带演化中的作用:以锡林浩特微陆块为例 邵济安,田伟,唐克东,周新华
- 11 华北克拉通北缘少郎河地区约 2.5 Ga 的二长花岗岩及地质意义 郭云鹏,刘建明,曾庆栋,高帅,王路明
- 23 朝鲜半岛中部的志留系特征及其地质意义 金炳成,王训练,江进建,李哲俊,李斌,许哲雄,金明学
- 32 莱芜张家洼铁矿磁铁矿 LA-ICP-MS 微量元素特征及其对成矿过程的制约 陈应华,蓝廷广,王洪,唐燕文,戴智慧
- 50 北羌塘东部晚三叠世同裂谷作用新证据:来自甲丕拉组火山岩和砾岩时代的重新厘定 李学仁,王剑
- 65 柴西南翼山构造上新统狮子沟组混积岩地球化学特征及物源指示意义 于冬冬,张永生,邢恩袁,王琳霖,李凯,黄圆霖
- 76 新疆准东煤田中侏罗统煤系镓元素的分布特征及赋存机理探讨 陈磊,邵培,熊武候,祁文强,张世佳,张占贤
- 86 湘赣中、上奥陶统烟溪组、对耳石组硅质岩成因 郑宁,李廷栋,程木伟
- 99 中国东部大陆尺度地球化学走廊带碳酸盐岩稀土元素分布特征与影响因素 柳青青,迟清华,王学求,周建,刘汉根,刘东盛,高艳芳,翟大兴

盆地与资源

- 116 沉积盆地“源-汇”系统研究进展 操应长,徐琦松,王健
- 132 南大西洋两岸被动大陆边缘盆地结构差异与大油气田分布 温志新,吴亚东,边海光,王兆明,贺正军,宋成鹏
- 142 济阳坳陷渤海古近系页岩油“甜点”地震预测及影响因素分析 潘仁芳,陈美玲,张超谋,潘进
- 155 济阳坳陷邵家地区沙四段油气成藏差异性及其定量评价 林承焰,朱兆群,刘魁元,董春梅,任丽华,李志鹏

主编:王成善

副主编:张立飞 金振民 金之钧 万力 张培震 王小龙(常务)

本期责任编辑:王小龙 白兰云 马丽 胡伟武 李学军 编务:杨丽英

本期英文审校:沈合 潘道均 排版:北京晨皓轩图文设计有限公司

期刊基本参数:CN 11-3370/P *1994 *b *A4 *315 *zh *P * ¥50.00 *1 000 *27 *2018-07

- 168 渤中凹陷BZ1探区Qa构造速度异常分析 蔡少武, 张新涛, 张京思, 于 娅, 刘 腾, 李 颖
- 176 早古近纪极热时期古气候演化分析:以东营凹陷为例 雷华蕊, 姜在兴, 周红科
- 185 柴达木盆地北缘早奥陶世台地-斜坡-盆地相沉积特征及控制因素 马 帅, 陈世悦, 贾贝贝, 孙娇鹏, 汪 峰, 曾涵钰
- 198 湖相细粒混合沉积岩岩石类型划分:以准噶尔盆地吉木萨尔凹陷二叠系芦草沟组为例 张少敏, 操应长, 朱如凯, 蕙克来, 王 健, 朱 宁, 户瑞宁
- 210 广域电磁法在洞庭盆地北部生物气勘探中应用及远景靶区预测 孙春岩, 唐 侥, 赵 浩, 张仕强, 王栋琳, 贺会策, 凌 帆, 李建华, 贺 岩
- 226 中上扬子地区五峰组—龙马溪组硅质页岩的生物成因证据及其与页岩气富集的关系 卢龙飞, 秦建中, 申宝剑, 腾格尔, 刘伟新, 张庆珍
- 237 高煤级煤储层含水性特征及其对吸附能力的影响 李夏伟, 刘大锰, 蔡益栋, 姚艳斌, 张百忍, 张学英
- 245 页岩储层-超临界CO₂-模拟压裂液相互作用实验研究及其环境意义 徐永强, 李紫晶, 郭冀隆, 陈家玮

地震地质

- 255 地震成因综述 杜建国, 仵柯田, 孙凤霞
- 268 广西灵山断裂北段古地震事件初步研究 李细光, 潘黎黎, 李冰溯, 聂冠军, 吴教兵, 陆俊宏, 黎峻良, 严小敏

环境地学

- 276 中国淡水湖泊沉积物地球化学背景与环境质量基准建立的思考 李 敏, 成杭新, 李 括
- 285 长链烷基二醇及其指标在南海北部粤东沿海上升流地区的环境指示 茅晟懿, 朱小畏, 贾国东, 吴能友
- 299 煤矿酸性矿井水主动式生物修复中铁的行为与归宿 盛益之, 王广才, 刘 莹, 李广贺
- 307 秦皇岛牛心山高氟地下水分布特征及成因 吴 初, 武 雄, 张艳帅, 董岩岩, 朱鹏程

EARTH SCIENCE FRONTIERS

Special Issue on “Selected Research Articles on Various Topics in Earth Science”

Vol. 25 No. 4 2018

CONTENTS (No.4)

Preliminary discussion on the role of microcontinental blocks in the evolution of the Central Asian orogenic belt: taking the Xilinhaote microcontinental block as an example

SHAO Jian, TIAN Wei, TANG Kedong, ZHOU Xinhua(1)

The ~2.5 Ga monzogranite in the Shaolanghe area of the northern margin of the North China Craton and its geological significance

GUO Yunpeng, LIU Jianming, ZENG Qingdong, GAO Shuai, WANG Luming(11)

Characteristics of the Silurian System in the middle part of the Korean Peninsula and their significance

KIM Byongsong, WANG Xunlian, KANG Jingon, LI Choljun, LI Bin, HO Cholung, KIM Myonghak(23)

LA-ICP-MS trace element characteristics of magnetite from the Zhangjiawa iron deposit, Laiwu and constraints on metallogenic processes

CHEN Yinghua, LAN Tingguang, WANG Hong, TANG Yanwen, DAI Zhihui(32)

New evidence for the Late Triassic syn-rifting in the eastern North Qiangtang depression: redefinition of the stratigraphic age of volcanic rocks and conglomerates from the Jiapila Formation

LI Xueren, WANG Jian(50)

Geochemical characteristics and implication for provenance of mixed rocks from the Pliocene Shizigou Formation in the Nanyishan structure of the western Qaidam Basin

YU Dongdong, ZHANG Yongsheng, XING Enyuan, WANG Linlin, LI Kai, HUANG Youlin(65)

Discussion on distribution and occurrence mechanism of gallium in the Middle Jurassic coal-bearing strata of the eastern Junggar coalfield, Xinjiang

CHEN Lei, SHAO Pei, XIONG Wuhou, QI Wenqiang, ZHANG Shijia, ZHANG Zhanxian(76)

Origin of siliceous rocks in the Middle – Upper Ordovician Yanxi Formation, Hunan Province and Dui’ershi Formation, Jiangxi Province in South China

ZHENG Ning, LI Tingdong, CHENG Muwei(86)

Distribution and influencing factors of rare earth elements in carbonate rocks along three continental-scale transects in eastern China

LIU Qingqing, CHI Qinghua, WANG Xueqiu, ZHOU Jian, LIU Hanliang, LIU Dongsheng, GAO Yanfang, ZHAI Daxing(99)

Progress in “Source-to-Sink” system research

CAO Yingchang, XU Qisong, WANG Jian(116)

Variations in basin architecture and accumulation of giant oil and gas fields along the passive continent margins of the South Atlantic

WEN Zhixin, WU Yadong, BIAN Haiguang, WANG Zhaoming, HE Zhengjun, SONG Chengpeng(132)

Seismic prediction of Paleogene shale oil “sweet spots” and its influencing factor analysis in the Bonan sub-sag, Jiyang depression

PAN Renfang, CHEN Meiling, ZHANG Chaomo, PAN Jin(142)

Quantitative evaluation of hydrocarbon accumulation disparity in the fourth member of the Shahejie Formation in the Shaojia area of the Jiyang depression

LIN Chengyan, ZHU Zhaoqun, LIU Kuiyuan, DONG Chunmei, REN Lihua, LI Zhipeng(155)

Analysis of velocity anomalies of the Qa structure in the BZ1 exploration area, Bozhong sag

CAI Shaowu, ZHANG Xintao, ZHANG Jingsi, YU Ya, LIU Teng, LI Ying(168)

Analysis of paleoclimate evolution of the hyperthermal period in the early Paleogene: taking the Dongying depression as an example

LEI Huarui, JIANG Zaixing, ZHOU Hongke(176)

Sedimentary characteristics and controlling factors of the Early Ordovician platform-slope-basin in the northern margin of the Qaidam Basin

MA Shuai, CHEN Shiyue, JIA Beibei, SUN Jiaopeng, WANG Feng, ZENG Hanyu(185)

Lithofacies classification of fine-grained mixed sedimentary rocks in the Permian Lucaogou Formation, Jimsar sag, Junggar Basin

ZHANG Shaomin, CAO Yingchang, ZHU Rukai, XI Kelai, WANG Jian, ZHU Ning, HU Ruining(198)

Application of wide-field electromagnetic method to biogas exploration and prediction of prospective target area in the northern Dongting Basin

SUN Chunyan, TANG Yao, ZHAO Hao, ZHANG Shiqiang, WANG Donglin, HE Huice, LING Fan, LI Jianhua, HE Yan(210)

The origin of biogenic silica in siliceous shale from Wufeng–Longmaxi Formation in the Middle and Upper Yangtze region and its relationship with shale gas enrichment

LU Longfei, QIN Jianzhong, SHEN Baojian, Tenger, LIU Weixin, ZHANG Qingzhen(226)

Moisture content characteristics of high rank coal reservoir and its influence on adsorption capacity

LI Xiawei, LIU Dameng, CAI Yidong, YAO Yanbin, ZHANG Bairen, ZHANG Xueying(237)

Experimental study on the shale reservoir–supercritical CO₂–simulated fracturing fluid interaction and its environmental significance

XU Yongqiang, LI Zijing, GUO Jilong, CHEN Jiawei(245)

Earthquake generation: a review

DU Jianguo, WU Ketian, SUN Fengxia(255)

Preliminary study of paleoearthquakes in the northern section of the Lingshan fault, Guangxi

LI Xiguang, PAN Lili, LI Bingsu, NIE Guanjun, WU Jiaobing, LU Junhong, LI Junliang, YAN Xiaomin(268)

Geochemical background of freshwater lake sediments: a constraint on the establishment of sediment quality guidelines in China

LI Min, CHENG Hangxin, LI Kuo(276)

Application of long-chain diol and its index as environmental indicators of coastal upwelling regions along eastern Guangdong in the northern South China Sea

MAO Shengyi, ZHU Xiaowei, JIA Guodong, WU Nengyou(285)

Behavior and fate of Fe in the active bioremediation of acidic coal mine drainage

SHENG Yizhi, WANG Guangcai, LIU Ying, LI Guanghe(299)

Distribution characteristics and genesis of high-fluoride groundwater in the Niuxin Mountain, Qinhuangdao

WU Chu, WU Xiong, ZHANG Yanshuai, DONG Yanyan, ZHU Pengcheng(307)

中国科技核心期刊
中国科技论文统计源期刊
中文核心期刊
EI 收录期刊

刊号: ISSN 1005-2321
CN 11-3370 / P

《地学前缘》首发文章查阅方法

《地学前缘》编辑部与中国知网签署协议，在中国知网快速传播平台上优先发表《地学前缘》论文。论文一经网上发表，作者可及时上网下载该论文的出版证书。这对确认作者研究成果首发权、学术竞争力和影响力作用重大，同时也保证了读者获取科研情报与知识的及时性。

扫描二维码可登录《地学前缘》网上论文首发平台：



另外，登录 <http://www.doi.org> 或 <http://www.chndoi.org>，输入论文的 DOI 号，也可快速查询到该论文的相关信息。

地学前缘 (DIXUE QIANYUAN)
(双月刊) (1994年创刊)
2018年7月 第25卷 第4期 (总第132期)

Earth Science Frontiers
(Bi-monthly) (Started in 1994)
Vol.25 No.4 July 2018

主管单位：教育部
主办单位：中国地质大学（北京）；北京大学
主编：王成善
社长：施光海
编辑出版：中国地质大学（北京）《地学前缘》编辑部
(100083 北京市海淀区学院路29号
电话 010-82322973
传真 010-82321904
E-mail: frontier@cugb.edu.cn
网址 <http://www.earthsciencefrontiers.net.cn>
<http://www.cugb.edu.cn>)
印制单位：北京地大彩印有限公司

Responsible Institution: Ministry of Education, P.R.C.
Sponsored by China University of Geosciences(Beijing)
Peking University
Editor-in-Chief: WANG Chengshan
President: SHI Guanghai
Edited and Published by
Editorial Office of *Earth Science Frontiers*
(No. 29 Xueyuan Road, Haidian District, Beijing 100083, China;
Tel: 0086-10-82322973; Fax: 0086-10-82321904;
E-mail: frontier@cugb.edu.cn;
<http://www.earthsciencefrontiers.net.cn>;
<http://www.cugb.edu.cn>)
Printed by Dida Colored Printing Co., Ltd., Beijing

封面设计：汪 忆

本期定价：50元

ISSN 1005-2321



9 771005 232185