

ISSN 1001-6112
CN 32-1151/TE

SHIYOU

SHIYAN

DIZHI

石油实验地质

PETROLEUM GEOLOGY & EXPERIMENT

2021年 第43卷 第2期

Vol.43 No.2

世界学术期刊学术影响力指数 (WJCI) Q1区●

中文核心期刊要目总览核心期刊●

中国科学引文数据库 (核心版) 收录期刊●

Elsevier Scopus源期刊●

Elsevier GeoBase源期刊●

美国石油文摘 (PA) 源期刊●

美国化学文摘 (CA) 源期刊●



中国科技核心期刊



ISSN 1001-6112



03>

9 771001 611212

中国石油化工股份有限公司石油勘探开发研究院
中国地质学会石油地质专业委员会

主办

万方数据

石油实验地质

第四十三卷

第二期

二〇二一年三月

石油实验地质

第 43 卷第 2 期 2021 年 3 月

目 次

盆地·油藏

浅变质泥页岩的基本特征及环境分析——以阿尔金红柳沟 I 号剖面新元古界冰沟南组为例	
..... 钱一雄,储呈林,李曰俊,王 毅,张仲培,杨 鑫,李王鹏,马红强,陈 跃,邵志兵,庄新兵(193)	
高含量氢气赋存的地质背景及勘探前景	孟庆强,金之钧,孙冬胜,刘全有,朱东亚,刘佳宜,黄晓伟,王 璐(208)
塔里木盆地寒武系膏盐岩沉积特征与发育模式	樊 奇,樊太亮,李清平,杜 洋,张 岩,苑雅轩(217)
贵州省织金地区煤层气多层合采层位优选	高玉巧,郭 涛,何希鹏,高小康(227)
苏北盆地溱潼凹陷古近系阜宁组二段页岩油形成条件及有利区评价	咎 灵,骆卫峰,印燕铃,荆晓明(233)
基于不同砂体结构的宏观非均质性评价方法——以鄂尔多斯盆地合水地区长 8 油层组为例	
..... 陈朝兵,付 玲,南凡驰,冉 婧,陈新晶,宗超伦,李昊远(242)	
致密油储层地应力特征及其对物性的影响——以鄂尔多斯盆地上三叠统延长组为例	
..... 高 毅,林利飞,尹 帅,胡国祥,马绒利(250)	
渤海海域渤中 19-6 潜山气藏成藏要素匹配及成藏模式	牛成民,王飞龙,何将启,汤国民(259)
江汉盆地潜江凹陷潜江组盐间页岩油储层特征研究——以潜 3 ⁴ -10 韵律为例	
..... 刘心蕊,吴世强,陈凤玲,张 亮,杜小娟,管文静,梁文川(268)	
川北—川东地区中二叠世晚期地层划分新认识及地质意义	
..... 姚倩颖,刘一锋,江青春,郝 毅,李景瑞,吕学菊,苏 旺,付小东(276)	
松辽盆地南部梨树断陷正断层演化特征	邓铭哲,左宗鑫,邱 岐,白 帆(288)
应用 TSM 盆地模拟技术恢复准噶尔盆地东北缘石炭系烃源岩热演化史	
..... 周雨双,贾存善,张奎华,赵永强,余琪祥,江兴歌,曹 倩(297)	

油气地球化学

鄂尔多斯盆地大牛地下古生界天然气地球化学特征及其来源综合判识	
..... 孙 晓,王 杰,陶 成,张 毅,贾会冲,姜海健,马亮帮,王付斌(307)	
珠江口盆地阳江凹陷不同成藏期次原油成因及混源比例分析	熊万林,龙祖烈,朱俊章,杨兴业,丰 勇(315)

方法·技术

油气微生物勘探理论与技术研究进展	汤玉平,许科伟,顾 磊,杨 帆,高俊阳,任 春,王国建(325)
源储一体烃源岩精确评价——以准噶尔盆地吉木萨尔凹陷芦苇沟组为例	
..... 李二庭,王 剑,李 际,何 丹,高秀伟,刘翠敏,王海静(335)	
苏北盆地金湖凹陷阜宁组砂岩储层力学性质及影响因素	孙 珂,陈清华(343)
古构造定量恢复的地球物理方法研究及应用	荆克尧,陈 霞,金晓辉(354)
氙离子抛光—场发射扫描电镜分析方法在识别有机显微组分中的应用	
..... 高凤琳,王成锡,宋 岩,陈振宏,刘庆新,李 卓,姜振学,张欣欣(360)	
恒速压汞及核磁共振技术在四川盆地西部致密砂岩储层评价中的应用	冯动军,肖开华(368)

综合信息

中国石化石油勘探开发研究院无锡石油地质研究所实验地质技术之源——储协同演化模拟实验技术	(封二)
《石油实验地质》征稿简则	(封三)

CONTENTS

Characteristics and environment indication of mud shale undergone low temperature metamorphism:a case study of Neoproterozoic Binggounan Formation, Hongliugou I section, Altyn Tagh fault.....	QIAN Yixiong, CHU Chenglin, LI Yuejun, WANG Yi, ZHANG Zhongpei, YANG Xin, LI Wangpeng, MA Hongqiang, CHEN Yue, SHAO Zhibing, ZHUANG Xinbing(193)
Geological background and exploration prospects for the occurrence of high-content hydrogen···	MENG Qingqiang, JIN Zhijun, SUN Dongsheng, LIU Quanyou, ZHU Dongya, LIU Jiayi, HUANG Xiaowei, WANG Lu(208)
Sedimentary characteristics and development model of Cambrian gypsum-salt rocks, Tarim Basin	FAN Qi, FAN Tailiang, LI Qingping, DU Yang, ZHANG Yan, YUAN Yaxuan(217)
Optimization of multi-layer commingled coalbed methane production in Zhijin area, Guizhou province	GAO Yuqiao, GUO Tao, HE Xipeng, GAO Xiaokang(227)
Formation conditions of shale oil and favorable targets in the second member of Paleogene Funing Formation in Qintong Sag, Subei Basin	ZAN Lin, LUO Weifeng, YIN Yanling, JING Xiaoming(233)
Macro-heterogeneity evaluation based on different sand body structures:a case study of Chang 8 reservoir group in Heshui area, Ordos Basin	CHEN Zhaobing, FU Ling, NAN Fanchi, RAN Jing, CHEN Xinjing, ZONG Chaolun, LI Haoyuan(242)
Characteristics of in situ stress of tight oil reservoirs and its influence on petrophysical properties:a case study of Upper Triassic Yanchang Formation in Ordos Basin	GAO Yi, LIN Lifei, YIN Shuai, HU Guoxiang, MA Rongli(250)
Accumulation factor matching and model of Bozhong 19-6 buried hill gas reservoir, Bohai Sea area	NIU Chengmin, WANG Feilong, HE Jiangqi, TANG Guomin(259)
Characteristics of reservoirs for inter-salt shale oil of Qianjiang Formation (Eq), Qianjiang Sag, Jiangnan Basin: a case study of the Eq ₃ ⁴ -10 rhythm.....	LIU Xinrui, WU Shiqiang, CHEN Fengling, ZHANG Liang, DU Xiaojuan, GUAN Wenjing, LIANG Wenchuan(268)
Geological significance of late Mid-Permian stratigraphy in northern and eastern Sichuan Basin, SW China ···	YAO Qianying, LIU Yifeng, JIANG Qingchun, HAO Yi, LI Jingrui, LÜ Xueju, SU Wang, FU Xiaodong(276)
Normal fault evolution in Lishu Fault Depression, southern Songliao Basin	DENG Mingzhe, ZUO Zongxin, QIU Qi, BAI Fan(288)
Thermal evolution history reconstruction of Carboniferous source rocks on the northeastern margin of Junggar Basin using TSM basin simulation technology	ZHOU Yushuang, JIA Cunshan, ZHANG Kuihua, ZHAO Yongqiang, YU Qixiang, JIANG Xingge, CAO Qian(297)
Evaluation of geochemical characteristics and source of natural gas in Lower Paleozoic, Daniudi area, Ordos Basin	SUN Xiao, WANG Jie, TAO Cheng, ZHANG Yi, JIA Huichong, JIANG Haijian, MA Liangbang, WANG Fubin(307)
Origin and mixing ratio of crude oils in different charging episodes of Yangjiang Sag of Pearl River Mouth Basin ···	XIONG Wanlin, LONG Zulie, ZHU Junzhang, YANG Xingye, FENG Yong(315)
Recent progress in the theory and technology of microbial prospecting for oil and gas	TANG Yuping, XU Kewei, GU Lei, YANG Fan, GAO Junyang, REN Chun, WANG Guojian(325)
Accurate evaluation of source rocks in source-reservoir integration:a case study of source rocks in Lucaogou Formation, Jimsar Sag, Junggar Basin	LI Erting, WANG Jian, LI Ji, HE Dan, GAO Xiuwei, LIU Cuimin, WANG Haijing(335)
Mechanical properties and influencing factors of Funing Formation sandstone reservoir in Jinhu Sag, Subei Basin ···	SUN Ke, CHEN Qinghua(343)
Geophysical methods for quantitative resumption of paleo-structures and its application	JING Keyao, CHEN Xia, JIN Xiaohui(354)
Ar-ion polishing FE-SEM analysis of organic maceral identification.....	GAO Fenglin, WANG Chengxi, SONG Yan, CHEN Zhenhong, LIU Qingxin, LI Zhuo, JIANG Zhenxue, ZHANG Xinxin(360)
Constant velocity mercury injection and nuclear magnetic resonance in evaluation of tight sandstone reservoirs in western Sichuan Basin	FENG Dongjun, XIAO Kaihua(368)