

沉积学报

Chenji Xuebao

第43卷 第4期 2025年8月

目次

· 专栏·鄂尔多斯盆地乌拉力克组海相页岩气勘探· 主编按语

- 鄂尔多斯盆地西缘奥陶系乌拉力克组海相页岩气形成条件与勘探潜力 黄军平, 张才利, 谭开俊, 黄正良, 史江龙, 张艳, 李相博, 郭玮, 冯明, 王菁 (1163)
- 鄂尔多斯盆地西缘乌拉力克组笔石带划分及对沉积演化的指示 高小洋, 王传尚, 何文祥, 张建伍, 封莉, 严婧文, 万涛, 朱建斌, 徐鹏程, 王斌, 胡勇 (1178)
- 鄂尔多斯盆地西部奥陶纪乌拉力克组岩相古地理特征 闫伟, 刘洋, 郭玮, 周黎霞, 蔡郑红, 黄正良 (1199)
- 鄂尔多斯盆地西缘奥陶系乌拉力克组混积岩岩相类型及沉积模式 白莹, 马占荣, 黄正良, 闫伟, 高建荣, 赵振宇 (1213)
- 鄂尔多斯盆地乌拉力克组页岩孔隙空间影响因素及其页岩气地质意义 刘刚, 黄何鑫, 吴越, 侯芳, 赵帮胜, 张艳妮, 吴小力, 刘齐, 马亚轩 (1233)
- 纹层状页岩微观储层特征研究——以鄂尔多斯盆地西缘乌拉力克组为例 黄正良, 曹斌凤, 刘洋, 罗晓容, 闫伟, 马占荣, 程明, 俞雨溪, 于洲, 王璐 (1251)

· 学科综述 ·

- 大环烷烃类生物标志物研究进展 孟宪新, 卢鸿, 敖添, 彭平安 (1264)
- 海相砂质滩坝沉积构型及表征研究进展 赵俊威, 王恒, 张东伟, 孙海航, 陈恭洋, 印森林 (1275)

· 沉积与沉积矿产 ·

- 黔西北下三叠统碎屑岩对峨眉山大火成岩省的响应 邓旭升, 杨江海, 何犇, 聂波 (1293)
- 晚宾夕法尼亚亚纪变暖事件的沉积响应与全球对比 岳超盛, 陈吉涛, 杨文莉, 高彪, 胡科毅, 祁玉平, 王向东 (1308)

· 油气地质、地球化学 ·

- 石英颗粒边界溶蚀类型特征及成因探讨 郑宇超, 林小兵, 刘莉萍, 王贵华, 柳远松, 王壮生 (1322)
- 滨岸相储层构型界面表征及其对剩余油分布的控制——以珠江口盆地A油田为例 商建霞, 张乔良, 叶青, 刘鹏超, 晁彩霞 (1336)
- 储层质量控制因素与优质储层测井预测——以福山凹陷流沙港组储层为例 赵鑫, 卢政环, 廖飞燕, 时阳, 郭浩, 肖露, 赖锦, 李美俊, 龔承林 (1344)
- 沉积环境对页岩储层弹性特征的影响——以川南自贡地区龙马溪组页岩为例 刘棠煊, 陈雷, 白森, 张金武, 乔崇, 程辉, 谭秀成, 秦何星 (1361)
- 三塘湖盆地马朗凹陷芦草沟组烃源岩 β -胡萝卜素富集主控因素 甘应星, 赵红静, 王志勇, 金颖, 温旺彪, 王杰, 刘锋, 王晓华, 徐桂芳 (1371)
- 石油降解解菌 *Acinetobacter* sp. 5-5 对正十六烷的降解特性研究 原陇苗, 王之语, 邵媛媛, 陈建珍, 吴应琴 (1386)
- 基于机器学习的海陆过渡环境中陆源有机质分布预测模型——从沉积模拟实验到地质应用 邵俊哲, 李阳, 汪勇, 吴楠, 魏薇, 刘海 (1398)
- 鄂尔多斯地区南部早二叠世山西组源—汇系统差异与构造—沉积格局 李丹, 赵伟波, 胡琮, 刘磊, 虎建玲, 王志伟, 陈洪德, 朱淑玥, 张靖芪, 赵菲, 张蕊 (1412)
- 鄂尔多斯盆地东部晚石炭世本溪组源—汇充填过程与古地理格局 张蕊, 王琳霖, 刘磊, 虎建玲, 杜佳宁, 陈洪德, 黄道军, 王志伟, 朱淑玥, 李丹 (1429)
- 刚果扇盆地深水沉积体系及控制因素——以渐新统一中新统为例 宫越, 郭荣涛, 张忠民, 苏玉山, 林东升, 王兴华, 吴高奎 (1446)

· 非常规油气沉积学 ·

- 基于米兰科维奇理论页岩岩相组合研究——以四川盆地南部龙马溪组一段为例 黄璞, 熊亮, 詹国卫, 程洪亮, 赵勇, 张世华 (1461)
- 天文旋回约束下的页岩岩相分布与有机质富集——以四川盆地复兴地区东岳庙段为例 王必金, 鲜本忠, 彭伟, 赵琳, 陈绵琨, 余志云, 舒逸, 石浩程, 帅钰洁, 刘乙辰 (1475)
- 湖相富有机质泥页岩岩相划分及沉积环境——以鄂尔多斯盆地长7₂亚段为例 徐明慧, 王峰, 田景春, 任肇才, 孟浩, 余威, 王集, 吴静怡, 肖云宵 (1489)
- 致密砂岩岩相组合约束下成岩作用差异及成因——志靖—安塞地区延长组长8油层组 赵慧, 葱克来, 操应长, 辛红刚, 淡卫东, 李弛 (1507)
- 黑色页岩中的黄铁矿形态特征组合及古环境意义——以四川盆地W207井下寒武统筇竹寺组为例 符芳亮, 潘松圻, 张国生, 赵正福, 王伟, 沈雅婷, 荆振华 (1522)

ACTA SEDIMENTOLOGICA SINICA

Vol.43 No.4 Aug.2025

CONTENTS

Formation Conditions and Exploration Potential for Marine Shale Gas from the Ordovician Wulalike Formation in the Western Ordos Basin	HUANG JunPing, ZHANG CaiLi, TAN KaiJun, HUANG ZhengLiang, SHI JiangLong, ZHANG Yan, LI XiangBo, GUO Wei, FENG Ming, WANG Jing (1163)
Division of Graptolite Zones in the Wulalike Formation at the Western Margin of the Ordos Basin: Implications for sedimentary evolution	GAO XiaoYang, WANG ChuanShang, HE WenXiang, ZHANG JianWu, FENG Li, YAN JingWen, WAN Tao, ZHU JianBin, XU PengCheng, WANG Bin, HU Yong (1178)
Lithofacies Paleogeography of the Ordovician Wulalike Formation, Western Margin of the Ordos Basin	YAN Wei, LIU Yang, GUO Wei, ZHOU LiXia, CAI ZhengHong, HUANG ZhengLiang (1199)
Lithofacies and Sedimentary Model of Migmatites in the Ordovician Wulalike Formation, Western Edge of the Ordos Basin	BAI Ying, MA Zhanrong, HUANG Zhengliang, YAN Wei, GAO Jianrong, ZHAO Zhenyu (1213)
Factors Influencing Pore Space in Wulalike Formation Shale, Ordos Basin: Geological significance for shale gas	LIU Gang, HUANG HeXin, WU Yue, HOU Fang, ZHAO BangSheng, ZHANG YanNi, WU XiaoLi, LIU Qi, MA YaXuan (1233)
Microscopic Reservoir Characteristics of Laminated Shales: A case study of the Wulalike Formation at the western margin of the Ordos Basin	HUANG ZhengLiang, CAO BinFeng, LIU Yang, LUO XiaoRong, YAN Wei, MA ZhanRong, CHENG Ming, YU YuXi, YU Zhou, WANG Lu (1251)
A Review of Macrocyclic Alkanes	MENG XianXin, LU Hong, AO Tian, PENG PingAn (1264)
Advances in Sedimentary Architecture and Characterization of Marine Sandy Beach-bars: A review	ZHAO JunWei, WANG Heng, ZHANG DongWei, SUN HaiHang, CHEN GongYang, YIN SenLin (1275)
Response of the Lower Triassic Clastic Rocks in Northwestern Guizhou to the Emeishan Large Igneous Province	DENG XuSheng, YANG JiangHai, HE Ben, NIE Bo (1293)
Sedimentary Response and Global Correlation of the Late Pennsylvanian Warming Event	YUE ChaoSheng, CHEN JiTao, YANG WenLi, GAO Biao, HU KeYi, QI YuPing, WANG XiangDong (1308)
Discussion of the Characteristics and Causes of Different Types of Quartz Grain Boundary Dissolution	ZHENG YuChao, LIN XiaoBing, LIU LiPing, WANG GuiHua, LIU YuanSong, WANG ZhuangSheng (1322)
Architecture Interface Characterization of Littoral Facies Reservoir and the Remaining Oil Distribution: A case study from the Wenchang A oilfield in the Pearl River Mouth Basin	SHANG JianXia, ZHANG QiaoLiang, YE Qing, LIU PengChao, CHAO CaiXia (1336)
Factors Controlling Reservoir Quality and Prediction of High-quality Reservoir Using Well Logs: A case study of the Liushagang Formation in the Fushan Sag, China	ZHAO Xin, LU ZhengHuan, LIAO FeiYan, SHI Yang, GUO Hao, XIAO Lu, LAI Jin, LI MeiJun, GONG ChengLin (1344)
Influence of Sedimentary Environment on the Elastic Characteristics of Shale Reservoirs: A case study of the Longmaxi Formation in the Zigong area, southern Sichuan	LIU TangXuan, CHEN Lei, BAI Sen, ZHANG JinWu, QIAO Chong, CHENG Hui, TAN XiuCheng, QIN HeXing (1361)
Main Controlling Factors for Lucaogou Formation β -Carotane Enrichment in the Malang Sag, Santanghu Basin	GAN YingXing, ZHAO HongJing, WANG ZhiYong, JIN Ying, WEN WangBiao, WANG Jie, LIU Feng, WANG XiaoHua, XU GuiFang (1371)
Degradation Characteristics of <i>n</i> -Hexadecane by Petroleum Hydrocarbon-Degrading Bacteria <i>Acinetobacter</i> sp. 5-5	YUAN LongMiao, WANG ZhiYu, SHAO YuanYuan, CHEN JianZhen, WU YingQin (1386)
Machine Learning-Based Model for Predicting the Distribution of Terrestrial Organic Matter in a Marine-Terrestrial Transitional Environment: From sedimentary simulation experiments to geological applications	SHAO JunZhe, LI Yang, WANG Yong, WU Nan, WEI Wei, LIU Hai (1398)
Source-to-Sink System Differences and Structure-Sedimentary Pattern of the Early Permian Shanxi Formation in the Southern Ordos Region	LI Dan, ZHAO WeiBo, HU Cong, LIU Lei, HU JianLing, WANG ZhiWei, CHEN HongDe, ZHU ShuYue, ZHANG JingQi, ZHAO Fei, ZHANG Rui (1412)
Source-to-Sink Filling Process and Paleogeographic Pattern of the Late Carboniferous Benxi Formation in the Eastern Ordos Basin	ZHANG Rui, WANG LinLin, LIU Lei, HU JianLing, DU JiaNing, CHEN HongDe, HUANG DaoJun, WANG ZhiWei, ZHU ShuYue, LI Dan (1429)
Study on the Deep-water Sedimentary System and Controlling Factors in the Congo Fan Basin: A case study from the Oligocene and Miocene	GONG Yue, GUO RongTao, ZHANG ZhongMin, SU YuShan, LIN DongSheng, WANG XingHua, WU GaoKui (1446)
Research on Shale Facies Combination Based on Milankovitch Theory: A case study from the 1st member of Longmaxi Formation in the southern Sichuan Basin	HUANG Pu, XIONG Liang, ZHAN GuoWei, CHENG HongLiang, ZHAO Yong, ZHANG ShiHua (1461)
Lithofacies Distribution and Organic Matter Enrichment of Shale Under the Constraint of Astronomical Cycles: A case study of the Dongyuemiao member in the Fuxing area, Sichuan Basin	WANG BiJin, XIAN BenZhong, PENG Wei, ZHAO Lin, CHEN MianKun, YU ZhiYun, SHU Yi, SHI HaoCheng, SHUAI YuJie, LIU YiChen (1475)
Classification of Lacustrine Organic-Rich Mud Shale Petrography and the Depositional Environment: An example from the Chang 7 ₃ sub-member in the Ordos Basin	XU MingHui, WANG Feng, TIAN JingChun, REN ZhaoCai, MENG Hao, YU Wei, WANG Ji, WU JingYi, XIAO YunXiao (1489)
Diagenesis Differences and Genesis Constrained by Lithofacies Combinations in Tight Sandstone: Case study of Chang 8 member of the Yanchang Formation in Zhijing-Ansai area	ZHAO Hui, XI KeLai, CAO YingChang, XIN HongGang, DAN WeiDong, LI Chi (1507)
Assemblage of Morphological Characteristics in Pyrites and Their Paleoenvironmental Significance in Black Shale: A case study from the Lower Cambrian Qiongzhusi Formation of well W207 in the Sichuan Basin	FU FangLiang, PAN SongQi, ZHANG GuoSheng, ZHAO ZhengFu, WANG Wei, SHEN YaTing, JING ZhenHua (1522)