

# 沉积学报

Chenji Xuebao

第43卷 第6期 2025年12月

## 目次

### · 学科综述 ·

- 湖泊细粒沉积岩纹层特征与形成机制研究进展及展望 ..... 王铭乾, 张元元, 朱如凯, 郭召杰, 李志扬, 王俊峰(1897)  
白云石成因中的“硫酸根之谜”: 回顾与展望 ..... 梁子珩, 甯濛, 文华国, 沈冰(1919)  
汞示踪古新世—始新世极热事件火山沉积记录研究进展 ..... 杨晨, 林雯洁, 金思敏, 李明松, 沈俊(1935)

### · 沉积与沉积矿产 ·

- 鄂尔多斯盆地T-OAE时期湖泊硫循环及其地质意义 ..... 陈杨, 金鑫, 郎咸国, 李滨兵(1952)  
四川邻水地热井含膏盐段岩屑碳氧同位素特征 ..... 刘建清, 黄从俊, 朱华平, 何利, 冉敬(1968)  
白垩纪湖相红色泥岩致色矿物特征及其古环境效应——以中国东北部北黄海盆地为例 ..... 岑欣, 王任, 殷科, 石万忠, 李顾盼, 胡小强(1978)  
东北沙地化学风化强度的空间分布特征及其影响因素 ..... 赵婉婷, 王艳茹, 谢远云, 迟云平, 康春国, 汪烨辉, 吴鹏, 孙磊, 魏振宇, 刘海金(1992)  
沿浦湾红树林沉积物有机碳埋藏特征及来源解析 ..... 李滨, 水柏年, 于洋, 吕聪聪, 李雪丽, 上官明珠, 魏珍, 胡成业(2004)

### · 油气地质、地球化学 ·

- 浅埋藏多期碳酸盐胶结成因分析及地质意义——以准噶尔盆地车排子凸起东翼新近系沙湾组为例 ..... 袁静, 张宇翔, 赵广昊, 侯旭波(2015)  
塔里木盆地西北缘埃迪卡拉纪熔岩特征、成因及地质意义 ..... 黄少英, 章凤奇, 罗彩明, 段云江, 亢茜(2028)  
柴达木盆地脊状地貌沉积中砾石形态及其古环境意义 ..... 刘传兵, 丁召静, 周定通, 梅璟, 刘天, 张婕, 赵健楠, 王节涛(2039)  
细粒岩天文旋回识别及在精细地层划分上的应用——以辽河西部凹陷雷家地区沙四段为例 ..... 李阳, 李晓光, 张廷山, 邹丙方, 陈昌, 李金鹏, 周晓龙, 王高飞, 刘洋, 戚雪晨, 郭美伶, 高洋(2053)  
非淡水成因选择性溶蚀及其沉积旋回中差异性分布特征研究——以羌塘盆地布曲组为例 ..... 王茂德, 付小东, 张建勇, 刘思琪, 葛毓柱, 甯濛, 夏攀, 文华国(2068)  
鄂尔多斯盆地东南部太原组顶界地层厘定——来自宜川地区太原组—山西组碎屑锆石U-Pb年代学的约束 ..... 李玲香, 谷团, 弓虎军, 迟润龙, 刘婷(2088)  
柴达木盆地台南地区滩坝砂体粒度特征及水动力 ..... 易定红, 刘应如, 李积永, 刘俊丰, 奎明清, 陈汾君, 吴颜雄, 李红哲, 张婷婷(2102)  
煤系地层优质储层特征及成因模式——以济阳拗陷大王庄地区石炭系太原组为例 ..... 宋磊, 王淑萍, 赵妍菲, 孙沛沛, 盛凯(2114)  
沥青填隙物成因差异及其对储层储集性能的控制效应——以塔北西部白垩系巴西改组碎屑岩储层为例 ..... 陈思淼, 韩登林, 闫康, 张吉振, 马斌玉, 杜皓, 武倩宇(2135)  
湖相富有机质泥岩纹层组合类型及其储集意义——以济阳拗陷沙河街组泥岩为例 ..... 董济凯, 董春梅, 林承焰, 赵子茹, 郑心如, 刘连启, 聂聪, 刘斌(2151)  
内陆拗陷湖盆远岸砂质滩坝沉积模式 ..... 李嘉伟, 徐振华, 程立华, 尹艳树(2168)  
琼东南盆地松南低凸起YA区渐新统沉积体系 ..... 郭原草, 郭建华, 余烨, 陈广, 李智宇, 刘辰生, 吴诗情(2187)  
准噶尔盆地车排子地区新近系沙湾组一段复合扇三角洲沉积及其控制因素 ..... 张曰静, 谢利华, 张卫平, 商丰凯, 修金磊, 关旭同, 张亚楠(2202)  
新疆三塘湖盆地沉积体系演化及物源分析——以条湖—马朗凹陷中下侏罗统为例 ..... 彭旻, 王波, 于海跃, 董雨洋, 盛莉娜, 杨琳娜, 刘少治, 王少依, 朱晨(2220)  
川中地区中侏罗统沙溪庙组一段物源分析 ..... 曹甲新, 徐文礼, 曹脊翔, 郭佩, 文华国(2237)  
乌审旗地区盐下奥陶系流体来源及其油气意义 ..... 张洁, 贾连奇, 范立勇, 马占荣, 罗晓容, 秦彪, 王怡帅(2249)  
滇黔北拗陷东部五峰组—龙马溪组成矿元素评价及沉积环境分析——来自干酪根微量元素的证据 ..... 裴子璇, 胡煜昭, 许赛华, 张启梦(2264)

# ACTA SEDIMENTOLOGICA SINICA

Vol.43 No.6 Dec.2025

## CONTENTS

- Progress and Perspective on the Characteristics and Formation Mechanism of Laminae in Lacustrine Fine-grained Sedimentary Rocks ...  
.....WANG MingQian, ZHANG YuanYuan, ZHU RuKai, GUO ZhaoJie, LI ZhiYang, WANG JunFeng (1897)
- ‘Sulfate Enigma’ in Dolomite Genesis: Review and Perspectives .....LIANG ZiHeng, NING Meng, WEN HuaGuo, SHEN Bing (1919)
- A Review of Mercury as Proxy for Volcanism During the Paleocene-Eocene Thermal Maximum .....  
.....YANG Chen, LIN WenJie, JIN SiMin, LI MingSong, SHEN Jun (1935)
- Sulfur Cycle Change and Its Geological Significance During the Toarcian Oceanic Anoxic Event (T-OAE) in the Ordos Basin .....  
.....CHEN Yang, JIN Xin, LANG XianGuo, LI BinBing (1952)
- Carbon and Oxygen Isotope Characteristics of Rock Debris in the Salt-bearing Section of Geothermal Well in Linshui County, Sichuan  
Province .....LIU JianQing, HUANG CongJun, ZHU HuaPing, HE Li, RAN Jing (1968)
- Characteristics of Chromogenic Minerals in Lower Cretaceous Lacustrine Red Mudstones and Their Paleoenvironmental Effect: A case  
study from the North Yellow Sea Basin, eastern China .....  
.....CEN Xin, WANG Ren, YIN Ke, SHI WanZhong, LI GuPan, HU XiaoQiang (1978)
- Spatial Distribution Characteristics and Influencing Factors of Chemical Weathering Intensity for Sandy Land in Northeast China .....  
.....ZHAO WanTing,  
WANG YanRu, XIE YuanYun, CHI YunPing, KANG ChunGuo, WANG YeHui, WU Peng, SUN Lei, WEI ZhenYu, LIU HaiJin (1992)
- Burial Characteristics and Source Analysis of Organic Carbon in Mangrove Sediments, Yanpu Bay, China .....  
.....LI Bin, SHUI BoNian, YU Yang, LU CongCong, LI XueLi, SHANGGUAN MingZhu, WEI Zhen, HU ChengYe (2004)
- Genetic Analysis of Multi-stage Carbonate Cementation in Shallow Burial and Its Geological Implications: Case study of the Neogene Shan-  
wan Formation, eastern side of Chepaizi uplift, Junggar Basin .....  
.....YUAN Jing, ZHANG YuXiang, ZHAO GuangHao, HOU XuBo (2015)
- Characteristics and Origin of Ediacaran Peperites in Northwestern Tarim Basin, and Their Geological Implications .....  
.....HUANG ShaoYing, ZHANG FengQi, LUO CaiMing, DUAN YunJiang, KANG Qian (2028)
- Gravel Morphology of Sedimentary Curvilinear Ridges in the Qaidam Basin and Its Paleoenvironmental Significance .....  
.....LIU ChuanBing, DING ZhaoJing, ZHOU DingTong, MEI Jing, LIU Tian, ZHANG Jie, ZHAO JianNan, WANG JieTao (2039)
- Identification of Astronomical Cycles in Fine-grained Rocks and Their Application in Fine Stratigraphic Division: A case study of the  
Fourth member of the Shahejie Formation in the Leijia area, Western Sag of the Liaohe Depression .....  
.....LI Yang, LI XiaoGuang, ZHANG TingShan, ZOU  
BingFang, CHEN Chang, LI JinPeng, ZHOU XiaoLong, WANG GaoFei, LIU Yang, QI XueChen, GUO MeiLing, GAO Yang (2053)
- Selective Dissolution of Non-freshwater Origin and Its Differential Distribution Within Sedimentary Cycles: A case study from the Buqu  
Formation of the well GK-1, Qiangtang Basin, China .....  
.....WANG MaoDe, FU XiaoDong, ZHANG JianYong, LIU SiQi, GE YuZhu, NING Meng, XIA Pan, WEN HuaGuo (2068)
- Determination of the Top Boundary Strata of the Taiyuan Formation in the Southeastern Ordos Basin: Constrained by U-Pb geochronology  
of the Taiyuan Formation-Shanxi Formation in the Yichuan area .....  
.....LI LingXiang, GU Tuan, GONG HuJun, CHI RunLong, LIU Ting (2088)
- Grain-size Characteristics and Hydrodynamic Conditions of Beach-bar Sand Bodies in Tainan Area, Qaidam Basin .....  
.....YI DingHong,  
LIU YingRu, LI JiYong, LIU JunFeng, KUI MingQing, CHEN FenJun, WU YanXiong, LI HongZhe, ZHANG TingJing (2102)
- Characteristics and Genetic Model of High-quality Reservoir of Clastic Rocks in Coal-bearing Strata: A case of the Carboniferous Taiyuan  
Formation in the Dawangzhuang area, Jiyang Depression .....  
.....SONG Lei, WANG ShuPing, ZHAO YanFei, SUN PeiPei, SHENG Kai (2114)
- Genetic Difference of Bitumen Filling and Its Controlling Effect on Reservoir Performance: A case study from the Lower Cretaceous Baxi-  
gai Formation clastic rock reservoir in the western Tarim Basin .....  
.....CHEN SiMiao, HAN DengLin, YAN Kang, ZHANG JiZhen, MA BinYu, DU Hao, WU QianYu (2135)
- Lacustrine Organic-rich Black Mudstone Laminated Facies and Its Reservoir Significance: A case study of the Shahejie Formation mud-  
stone in the Jiyang Depression .....  
.....DONG JiKai, DONG ChunMei, LIN ChengYan, ZHAO ZiRu, ZHENG XinRu, LIU LianQi, NIE Cong, LIU Bin (2151)
- A Depositional Model of a Sandy Beach Bar on the Far Bank of an Inland Depression Lake Basin .....  
.....LI JiaWei, XU ZhenHua, CHENG LiHua, YIN YanShu (2168)
- The Oligocene Sedimentary System in the YA Area of the Songnan Uplift, Qiongdongnan Basin .....  
.....GUO YuanCao, GUO JianHua, YU Ye, CHEN Guang, LI ZhiYu, LIU ChenSheng, WU ShiQing (2187)
- Depositional Characteristics from the Complex Fan Delta of Member 1 of the Neogene Shawan Formation in the Chepaizi Area, Junggar  
Basin .....ZHANG YueJing, XIE LiHua, ZHANG WeiPing, SHANG FengKai, XIU JinLei, GUAN XuTong, ZHANG YaNan (2202)
- Depositional Evolution and Provenance Analysis of the Santanghu Basin, Xinjiang: An example from the Early to Middle Jurassic Tiaohu-  
Malang Sags .....  
.....PENG Yang, WANG Bo, YU HaiYue, DONG YuYang, SHENG LiNa, YANG LinNa, LIU ShaoZhi, WANG ShaoYi, ZHU Chen (2220)
- Provenance Analysis of the First Member of the Middle Jurassic Shaximiao Formation in Central Sichuan Basin .....  
.....CAO JiaXin, XU WenLi, CAO JiXiang, GUO Pei, WEN HuaGuo (2237)
- The Source of the Pre-salt Ordovician Fluid and Its Significance for Hydrocarbon in Wushenqi Area .....  
.....ZHANG Jie, JIA LianQi, FAN LiYong, MA ZhanRong, LUO XiaoRong, QIN Biao, WANG YiShuai (2249)
- Evaluation and Sedimentary Environment Analysis of Ore-forming Elements in Wufeng Formation-Longmaxi Formation in Eastern Dian-  
qianbei Depression: Evidence from kerogen trace elements .....PEI ZiXuan, HU YuZhao, XU SaiHua, ZHANG QiMeng (2264)