

目 次

· 钻井液 ·

基于分子动力学的环氧树脂与固化剂及地层矿物间的作用模拟

····· 董浩安, 李志勇, 张金波, 金星宇, 岑昊天, 徐瑞星 283

钻井液用无荧光柔性封堵剂的制备及性能 ····· 褚奇, 穆国臣, 葛春梅, 张天笑, 杨铭, 刘聪 290

东海超深大位移井油基钻井液技术 ····· 余运虎 296

钻井液可降解携岩剂的研制及在万米深井中的试验 ····· 明显森 302

纳米改性材料在水基钻井液中的减阻性能 ····· 郭磊, 李模刚, 邓楚雯, 贺垠博, 耿铁 308

井壁强化承压防漏技术模拟实验研究 ····· 吴春林, 文明, 邱正松 318

两性离子聚合物改性纳米颗粒的抗钙封堵降滤失性能与机理

····· 李文哲, 沈欣宇, 王锐, 杨航, 刘兴宝, 譙青松 324

纳米二氧化硅复合聚合物凝胶的制备与堵漏性能

····· 姚文爽, 刘波, 郝惠军, 叶艳, 程荣超, 刘凡, 宋瀚轩 330

油基钻井液堵漏用吸油黏滞聚合物研制及应用 ··· 刘文堂, 张县民, 黄宁, 姜雪清, 李旭东, 杨海, 桂芳 338

鄂尔多斯盆地东部深层煤层气防漏堵漏技术 ··· 朱明明, 孙欢, 屈艳平, 石崇东, 张勤, 侯博, 杨光 343

钻井液性能在线监测系统流变参数校准方法

····· 涂留军, 王建龙, 郭晓冰, 王韧, 张伟杰, 吕盛安, 刘胜, 杨泽星 350

数字孪生环境下基于生成对抗网络的钻井液流变性能预测方法

····· 郭亮, 徐行, 刘开勇, 姚如钢, 唐赛宇, 向渝 359

· 固井液 ·

巴彦油田深层高温高密度韧性水泥浆体系构建 ··· 段永强, 王秀影, 罗玉财, 罗敏, 孙德, 黄盛, 李早元 368

基于 AMPS 的早强型缓凝剂的合成及性能 ····· 谢云媚, 张晔, 马勇, 程小伟, 梅开元, 张春梅 379

川东北高温高密度钻井液的固井水泥污染及处理 ····· 王俊祥, 胡俊辉, 王长勤, 罗亚飞, 刘杨康 386

低温低密度早强水泥浆体系研究及应用 ····· 孙建峰, 付玥颖, 邱卫红, 刘景丽, 赵秋羽, 曹洪昌 392

清除井壁滤饼提高固井质量的冲洗液性能影响研究

····· 吴彦先, 赵增新, 巩加芹, 张浩, 吴宝康, 张辉, 李军, 李芷琦 398

· 压裂液与酸化液 ·

耐盐防膨水性乳液降阻剂合成及其性能 ····· 黄静 406

· 完井液 ·

一种新型低压油藏用自生泡沫修井液体系 ····· 吴颖, 彭立, 王宏申, 田初明, 彭锦泓, 王少卿 413

油基高密度钻井液污染解堵液体系 ····· 罗志锋, 李轲, 闫丙森 418

CONTENTS

•DRILLING FLUID•

- Simulation of Action between Epoxy Resin and Solidifier/Formation Minerals Based on Molecular Dynamics
..... *DONG Haoan, LI Zhiyong, ZHANG Jinbo, JIN Xingyu, CEN Haotian, XU Ruixing* 283
- Preparation and Properties of a Drilling Fluid Non-Fluorescent Flexible Plugging
..... *CHU Qi, MU Guochen, GE Chunmei, ZHANG Tianxiao, YANG Ming, LIU Cong* 290
- Oil-Based Drilling Fluid Technology for Ultra-Deep Extended Reach Wells in East China Sea
..... *SHE Yunhu* 296
- Preparation of a Drilling Fluid Degradable Cuttings Carrying Agent and Its Test in 10,000-Meter Deep Wells
..... *MING Xiansen* 302
- Drag Reducing Performance of a Nanomodified Material in Water Based Drilling Fluids
..... *GUO Lei, LI Mugang, DENG Chuluan, HE Yinbo, GENG Tie* 308
- Simulation Experiment Study on Lost Circulation Control by Borehole Wall Strengthening
..... *WU Chunlin, WEN Ming, QIU Zhengsong* 318
- Performance and Mechanisms of Zwitterionic Polymer Modified Nanoparticles in Calcium Resistance, Plugging and Filtration Control
..... *LI Wenzhe, SHEN Xinyu, WANG Rui, YANG Hang, LIU Xingbao, QIAO Qingsong* 324
- Preparation of Composite Nano-Silica and Polymer Gel and Its Function as Lost Circulation Material
..... *YAO Wenshuang, LIU Po, HAO Huijun, YE Yan, CHENG Rongchao, LIU Fan, SONG Hanxuan* 330
- Research and Application of the Oil-absorbing Viscous Polymer for Oil-Based Drilling Fluid Plugging
..... *LIU Wentang, ZHANG Xianmin, HUANG Ning, JIANG Xueqing, LI Xudong, YANG Hai, GUI Fang* 338
- Technology of Lost Circulation Prevention and Control in Deep Coalbed Methane Drilling in Eastern Ordos Basin
..... *ZHU Mingming, SUN Huan, QU Yanping, SHI Chongdong, ZHANG Qin, HOU Bo, YANG Guang* 343
- Rheological Parameter Calibration of Online Drilling Fluid Property Monitoring System
..... *TU LiuJun, WANG Jianlong, GUO Xiaobing, WANG Ren, ZHANG Weijie, LYU Sheng'an, LIU Sheng, YANG Zexing* 350
- Method of Predicting Drilling Fluid Rheology Based on Generative Adversarial Networks in Digital Twin Environment
..... *GUO Liang, XU Hang, LIU Kaiyong, YAO Rugang, TANG Saiyu, XIANG Yu* 359

•CEMENTING FLUID•

- Construction of a deep high-temperature high-density resilient cement slurry system for the bayan oilfield
..... *DUAN Yongqiang, WANG Xiuying, LUO Yucai, LUO Min, SUN De, HUANG Sheng, LI Zaoyuan* 368
- Synthesis and Properties of an Early-Strength Retarder Based on AMPS
..... *XIE Yunmei, ZHANG Ye, MA Yong, CHENG Xiaowei, MEI Kaiyuan, ZHANG Chunmei* 379
- Contamination of High Density Drilling Fluid at High temperature and Handling thereof in Northeast Sichuan
..... *WANG Junxiang, HU Junhui, WANG Changqin, LUO Yafei, LIU Yangkang* 386
- Study on and Application of a Low Temperature Low Density Early Strength Cement Slurry
..... *SUN Jianfeng, FU Yueying, QIU Weihong, LIU Jingli, ZHAO Qiuyu, CAO Hongchang* 392
- Study on Factors Affecting Properties of Flushing Fluids for Removing Mud Cakes to Improve Well Cementing Quality
..... *WU Yanxian, ZHAO Zengxin, GONG Jiaqin, ZHANG Hao, WU Baokang, ZHANG Hui, LI Jun, LI Zhiqi* 398

•FRACTUREING FLUID & ACIDIZING FLUID•

- Synthesis and Performance of a Salt Resistant Swelling Preventive Aqueous Emulsion Drag Reducer
..... *HUANG Jing* 406

•COMPLETION FLUID•

- A New Self-Generating Foam Workover Fluid for Low Pressure Reservoirs
..... *WU Ying, PENG Li, WANG Hongshen, TIAN Chuming, PENG Jinhong, WANG Shaoqing* 413
- Preparation and Application of a Block Removing Fluid for Eliminating Reservoir Contamination by High Density Oil-Based Drilling Fluids
..... *LUO Zhifeng, LI Ke, YAN Bingsen* 418