

目次

❖ 油气勘探与开发

- 东胜致密低渗产水气藏水平井一点法产能模型研究 罗懿 刘瑞 孔浩 王志彬(1)
- 渤海L油田水平井含水变化规律分析..... 赵靖康 申春生 李媛婷 安玉华 王鹏飞(8)
- 苏里格气田X井区山1段沉积微相及砂体分布特征
..... 阴旭航 赵永刚 周通 杜家满 于明航 申荣荣 曹浩(14)
- 环县西部地区延10—延8段沉积特征研究 沙政彤 魏钦廉 陈曦(22)
- 基于电性参数和GA-BP神经网络的砂岩孔渗预测..... 阮家驹 向葵 童小龙 王星皓 何方(31)
- 海上多段生产水平气井试井解释方法及其应用 李标 雷昊 李明军 钟家峻 黄小亮(39)

❖ 计算机与自动化技术

- 基于HGS-IDWA算法的机器人路径规划研究..... 李路(44)
- 基于熵和SVM算法的DDoS攻击检测 毛宇 高刃(50)
- 基于YOLOv4模型的工件快速识别方法改进研究
..... 左皓楠 胡桂川 蒲小霞 侯文赛 邓春燕(56)
- 基于改进YOLOv5的遥感图像检测 王志林 于璠(62)
- 基于改进YOLOv5的安全帽检测方法 张家旗 杨波 郭帅龙 马海娟 杨鑫(68)
- 基于蚁群算法的车辆状态疲劳特征优化研究
..... 陈智能 李作进 冯世霖 史蓝洋 曹亚男 贺学乐(76)
- 基于DDPG算法的MISO通信系统优化 赵冬鹤 徐龙艳 翟亚红(82)

❖ 冶金与材料

- CNTs@Fe₂O₃材料的构筑及其对锂硫电池性能的影响..... 胡章涛 望军 郑毅 杨森 张瀚(88)
- 铁矿粉种类和成分对其烧结基础特性的影响 苏永仓 孙高鹏 金炳彤 高艳宏 贾碧(94)

❖ 环境与安全

- 暴雨山洪与山坪塘漫坝多灾害耦合风险分析 张好 敬小非 毛菁鑫 谭会富 张元馨(100)

❖ 建筑技术

- 循环荷载下粉煤灰群桩复合地基承载性能试验研究 周盛全 徐秋伟 戴晨 冯绍童(108)

❖ 机械设计与制造

- 大排量深抽减载抽油泵研制 任向海 李楠 李晶辉 杨志 彭振华 丁雯(116)

CONTENTS

Study on One-Point Productivity Model of Horizontal Well in Dongsheng Tight Low Permeability
Water Production Gas Reservoir..... LUO Yi LIU Rui KONG Hao WANG Zhibin(1)

Analysis of Watercut Variation Law of Horizontal Wells of L Oilfield in Bohai Sea
..... ZHAO Jingkang SHEN Chunsheng LI Yuanting AN Yuhua WANG Pengfei(8)

Sedimentary Microfacies and Sand Body Distribution Characteristics of Shan 1 Section in the X Well
Area of Sulige Gas Field YIN Xuhang ZHAO Yonggang ZHOU Tong
DU Jiaman YU Minghang SHEN Rongrong CAO Hao(14)

Study on the Sedimentary Characteristics of Yan10-Yan8 Section in the Western Area of Huanxian County
..... SHA Zhengtong WEI Qinlian CHEN Xi(22)

Prediction of Sandstone Porosity and Permeability Based on Electrical Parameters and GA-BP Neural Network
..... RUAN Jiaju XIANG Kui TONG Xiaolong WANG Xinghao HE Fang(31)

Interpretation Method and Application of Well Testing for Offshore Multi-Segment Production
Horizontal Gas Wells LI Biao LEI Hao LI Mingjun ZHONG Jiajun HUANG Xiaoliang(39)

Research on Robot Path Planning Based on HGS-IDWA Algorithm..... LI Lu(44)

DDoS Attack Detection Based on Entropy and SVM Algorithm MAO Yu GAO Ren(50)

Research on Improvement of Rapid Workpiece Recognition Method Based on YOLOv4 Model
..... ZUO Haonan HU Guichuan PU Xiaoxia HOU Wensai DENG Chunyan(56)

Remote Sensing Image Detection Based on the Improved YOLOv5..... WANG Zhilin YU Li(62)

Safety Helmet Detection Method Based on Improved YOLOv5
..... ZHANG Jiaqi YANG Bo GUO Shuailong MA Haijuan YANG Xin(68)

Optimization of Vehicle State Fatigue Feature Based on Ant Colony Algorithm
..... CHEN Zhineng LI Zuojin FENG Shilin SHI Lanyang CAO Yanan HE Xuele(76)

Optimization of MISO Communication System Based on DDPG Algorithm
..... ZHAO Donghe XU Longyan ZHAI Yahong(82)

Construction of CNTs@Fe₂O₃ Materials and Their Effects on the Performance of Lithium Sulfur Batteries
..... HU Zhangtao WANG Jun ZHENG Yi YANG Sen ZHANG Han(88)

Influence of Types and Components of Iron Ore Power on Its Sintering Basic Characteristics
..... SU Yongcang SUN Gaopeng JIN Bingtong GAO Yanhong JIA Bi(94)

Analysis of Multi Hazard Coupling Risk Caused by Mountain Flood and Dam Overflow in Shanping Pond
..... ZHANG Hao JING Xiaofei MAO Jingxin TAN Huiifu ZHANG Yuanxin(100)

Experimental Study on Bearing Capacity of Fly Ash Pile Group Composite Foundation Under Cyclic Load
..... ZHOU Shengquan XU Qiuwei DAI Chen FENG Shaotong(108)

Development of Oil Well Pump With Large Displacement Deep Pumping and Load Reduction
..... REN Xianghai LI Nan LI Jinghui YANG Zhi PENG Zhenhua DING Wen(116)