

市场运营

海上原油中转储销模式研究 潘迁伟 1

人才培养

高分子物理及化学教学的课程思政探究 程金波, 赵春霞, 武元鹏, 李辉, 王犁 5
高职院校石化专业产教融合实训基地建设探索 马志荣, 张生贵, 郑洁, 马晓红 9
新工科背景下有机化学课程教学实践与探索 武宏科, 王红, 刘幸海 13
高职本科背景下化工实训装备的研究 赵扬, 何璐红, 张佳阳, 茹巧荣 17
线上线下融合教学在高职有机化学课程中的应用 朱晴 21
基于应用型人才培养的高分子化学案例教学实践活动 张妍, 张世国 25

质量与检测

原子吸收法在土壤重金属检测中的应用 靳玮 29
化学沉淀法在水质处理中的应用与优化 樊红梅 32
用ICP法测定湿法锌冶炼流程样品中金属元素的含量 杨石祥 36

环保与节能

煤制乙二醇DMO装置生产节能减排方案优化 侯波, 韩濛, 高翔 40
日用化工厂生产废水处理措施 范展华 43
氯碱生产中盐酸尾气吸收处理方案比较 蒋非 46
化工企业节能降耗技术的应用及优化策略 唐海红 49
空分压缩机厂房噪音治理防范策略 杨勇 52
纺织印染行业大气污染物分析与治理 左新波, 刘晓杰, 张双飞 55
煤气化过程中控制污染物产生的技术措施 朱志全 58
工业用地中土壤重金属污染治理的必要性及治理措施 潘易, 菅志亚, 俞艺沁 62
印染废水反渗透膜处理回用技术 程唐渊 65

技术与信息

水基钻井液储层保护技术研究进展 方圆, 周书胜, 鄢佳蓉 69
炼化装置控制优化项目实施及效果分析 杨海河 72
隔水管重置技术在海上老油田挖潜中的应用与前景 庞瑞江 76
汽车轮胎专用钛白粉研发现状分析 闫梅, 周强, 程飞 79
生物医用高分子材料合成与改性新进展 蔡佩伶 82

安全管理

非煤矿山安全生产责任制的建立与实施 孙绍金 85

目次

化工设备安全管理的优化措施.....	张红英	88
过程安全管理在化工实验室中的应用.....	王利军	91
化工企业重点环保设施的安全管理.....	张辉, 聂玉莲, 姚靖靖	94
现代化安全管理机制在海洋石油企业中的应用.....	张明哲	97
石油企业安全环保监督管理的实践.....	李兴鹏	101
化工企业火灾风险评估与应急响应策略.....	高洁	104
石油化工行业消防救援的对策与优化.....	陈震雄	107

设备运维

柔性石墨金属复合结构密封垫片研究进展.....	樊志斌, 张雷, 袁奕琳, 李宁波, 戴宵宵, 吕贤明, 贾飞	110
水轮机过流部件的修复技术与研究.....	张宇婷, 胡波	113
对某石化装置加热炉排烟温度异常的分析.....	张睿	116
循环氢压缩机干气密封带液现象分析及应对措施.....	程欣浩	120
复杂流体力学在化工装置设计中的应用.....	江超	124

工艺管控

高盐废水焚烧盐精制提纯研究.....	张德仕, 张珂	127
苯乙烯储存聚合原因分析及控制措施.....	胡佳宇	130
封端型水性聚氨酯固化剂的合成及应用.....	王允强	134
化工工艺与设备的适应性设计.....	杨海民	138
提高聚丙烯高压丙烯回收系统运行稳定性的优化方案.....	崔勇	142
煤焦化粗苯生产精苯预处理工序的工艺改进.....	胡宁	145
碳材料烘干过程中的湿度控制策略.....	王小明, 马成福	148
涠洲11-1油田调整井水基钻井液优选与应用.....	易鹏昌, 张立权, 李强, 申永强, 敬毅, 但春阳	152
羧甲基淀粉钠工艺对片剂崩解性能的影响.....	周晔, 王天瑶, 琚冬冬, 刘秀燕, 单艺璇	156

工程与施工

施工监理在油气田地面建设与仪表安装中的作用.....	邢燕	160
石油化工企业绿色工厂建设探索.....	张旭亮, 莫力根	163
天然气管道穿越高速公路的方案设计.....	王飞龙, 张洋, 黎瀚阳	166

彩页说明

彩页1——《化工管理》征稿简则

补白

人工智能首次自主设计并完成化学反应(4)

CONTENTS

Market and Business

Research on the Transit Storage and Sales Mode of Offshore Crude Oil	PAN Qianwei	1
--	-------------	---

Personnel Culturing

Research of Curriculum Ideology and Politics in Polymer Physics and Chemistry Teaching	CHENG Jinbo, ZHAO Chunxia, WU Yuanpeng, LI Hui, WANG Li	5
Exploration of the Construction of Industry Education Integration Training Base for Petrochemical Majors in Vocational Colleges	MA Zhirong, ZHANG Shenggui, ZHENG Jie, MA Xiaohong	9
Teaching Practice and Exploration of Organic Chemistry under the Background of New Engineering	WU Hongke, WANG Hong, LIU Xinghai	13
Research on Chemical Practical Training Equipment under the Background of Vocational Education Undergraduate	ZHAO Yang, HE Luhong, ZHANG Jiayang, RU Qiaorong	17
Application of Online and Offline Integrated Teaching in Organic Chemistry Course in Higher Vocational Colleges	ZHU Qing	21
Practical Activities of Polymer Chemistry Case Teaching Based on Application-oriented Talent Cultivation	ZHANG Yan, ZHANG Shiguo	25

Quality and Testing

Application of Atomic Absorption Spectrophotometry in the Detection of Heavy Metals in Soil	JIN Wei	29
Application and Optimization of Chemical Precipitation Method in Water Quality Treatment	FAN Hongmei	32
Determination of Metal Elements Content in Samples from Wet Zinc Smelting Process by ICP	YANG Shixiang	36

Environmental Protection and Energy Saving

Optimization of Energy Saving and Emission Reduction Scheme for Coal-to-ethylene Glycol DMO Production	HOU Bo, HAN Meng, GAO Xiang	40
Daily Chemical Plant Production Wastewater Treatment Measures	FAN Zhanhua	43
Comparison of Hydrochloric Acid Tail Gas Absorption Treatment Scheme in Chlor-alkali Production	JIANG Fei	46
Application and Optimization Strategy of Energy Saving and Consumption Reduction Technology in Chemical Enterprises	TANG Haihong	49
Air Separation Compressor Building Noise Control Prevention Strategy	YANG Yong	52
Analysis and Treatment of Air Pollutants in Textile Printing and Dyeing Profession	ZUO Xinbo, LIU Xiaojie, ZHANG Shuangfei	55
Technical Measures of Controlling Pollutant Generation in Coal Gasification Process	ZHU Zhiquan	58
Necessity and Measures of Soil Heavy Metal Pollution Control in Industrial Land	PAN Yi, JIAN Zhiya, YU Yiqin	62
Reverse Osmosis Membrane Treatment and Reuse Technology of Printing and Dyeing Wastewater	CHENG Tangyuan	65

Technology and Information

Research Progress on Reservoir Protection Technology of Water Based Drilling Fluid	FANG Yuan, ZHOU Shusheng, YAN Jiarong	69
Implementation and Effect Analysis of Refinery Plant Control Optimization Project	YANG Haihe	72
Application and Prospect of Riser Reset Technology in Tapping the Potential of Offshore Old Oilfields	PANG Ruijiang	76

CONTENTS

Research and Development Status Analysis of Titanium Dioxide for Automobile Tires	YAN Mei, ZHOU Qiang, CHENG Fei	79
New Progress in the Synthesis and Modification of Biomedical Polymer Materials	CAI Peiling	82

Safety Management

Establishment and Implementation of the Safety Production Responsibility System for All Noncoal Mines	SUN Shaojin	85
Optimization Measures of Chemical Equipment Safety Management	ZHANG Hongying	88
Application of Process Safety Management in Chemical Laboratory	WANG Lijun	91
Safety Management of Key Environmental Protection Facilities in Chemical Plants	ZHANG Hui, NIE Yulian, YAO Jingjing	94
Application of Modern Safety Management Mechanism in Offshore Oil Enterprises	ZHANG Mingzhe	97
Practice of Safety and Environmental Protection Supervision and Management in Petroleum Enterprises	LI Xingpeng	101
Fire Risk Assessment and Emergency Response Strategies of Chemical Enterprises	GAO Jie	104
Countermeasures and Optimization of Fire Rescue in Petrochemical Industry	CHEN Zhenxiong	107

Equipment Operation and Maintenance

Progress in Research on Flexible Graphite Metal Composite Structure Sealing Gasket	FAN Zhibin, ZHANG Lei, YUAN Yilin, LI Ningbo, DAI Xiaoxiao, LYU Xianming, JIA Fei	110
Repair Technology and Research of Turbine Flow Parts	ZHANG Yuting, HU Bo	113
Analysis of Abnormal Exhaust Gas Temperature in A Heating Furnace of A Petrochemical Plant	ZHANG Rui	116
Analysis and Countermeasures of Liquid Phenomenon in Dry Gas Seal of Circulating Hydrogen Compressor	CHENG Xinhao	120
Application of Complex Fluid Dynamics in Chemical Plant Design	JIANG Chao	124

Process Control

Research on Salt Refining and Purification of Highsalt Wastewater Incineration	ZHANG Deshi, ZHANG Ke	127
Analysis of Causes and Control Measures for Styrene Storage Polymerization	HU Jiayu	130
Synthesis and Application of End-sealing Waterborne Polyurethane Curing Agent	WANG Yunqiang	134
Adaptive Design of Chemical Process and Equipment	YANG Haimin	138
Optimization Scheme for Improving the Operation Stability of Polypropylene High Pressure Propylene Recovery System	CUI Yong	142
Process Improvement of the Pre-treatment Process for Producing Refined Benzene from Coal Coking Crude Benzene	HU Ning	145
Humidity Control Strategy During Carbon Material Drying Process	WANG Xiaoming, MA Chengfu	148
Optimization and Application of Water Based Drilling Fluid for Adjusting Well in Weizhou 11-1 Oilfield	YI Pengchang, ZHANG Liquan, LI Qiang, SHEN Yongqiang, JING Yi, DAN Chunyang	152
Effect of Sodium Carboxymethyl Starch Process on Disintegration Performance of Tablets	ZHOU Ye, WANG Tianyao, JU Dongdong, LIU Xiuyan, SHAN Yixuan	156

Engineering and Construction

Role of Construction Supervision in Surface Construction and Instrument Installation of Oil and Gas Fields	XING Yan	160
Exploration of Green Factory Construction in Petrochemical Enterprises	ZHANG Xuliang, MO Ligen	163
Scheme Design of Natural Gas Pipeline Crossing Expressway	WANG Feilong, ZHANG Yang, LI Hanyang	166