

目次

管理方略

仪控状态管理平台对石化企业管理效率提升的探讨	杨海河	1
提前介入理念在海洋石油工程承包商管理中的应用	周威	4
双重预防机制在精细化工领域建设的策略	张倩	7

人才培养

无机化学线上线下混合式教学模式的构建与实践	蒋银燕，王翠琼，郭丽娟	10
过程检测仪表课程思政教学的实践与探索	李海霞，丁炜	14
无机和分析化学课程思政教改的实践与探索	杨姗姗	18
茶学专业有机化学实验教学中的课程思政探索	朱东建，任爱山，谢微，段振华	22
催化原理课程的思政教学研究	尚亚靖，韩小茜	26
职业院校化工专业学生综合能力提升路径	展宗瑞，侯侠，李倩	30
雨课堂助力大学化学教学模式变革	邹一鸣，杨奕辉，樊花，何晓恒，屈丽娜，燕映霖	34
师范生化工基础教学改革措施	杨云霞，施卫忠，张红梅，王彦卿	38
“金课”理念下药物分析专业融入课程思政的路径	朱万婷，柳丽娟，谌雷	42

质量与检测

多组分有机框架化合物的合成及表征	卢瑶瑶，石鋆槿，杨棋，王仲燕，于永鑫，于涛，林琳	46
石亭江水质化学需氧量、高锰酸盐指数和五日生化需氧量分析	陈思洁，杨贤，冉秀华，傅德瑜，高倩倩	49
高纯异丙醇关键分析技术的建立和应用	时蕊	52
化工院校药品质量类课程群思政实践育人模式探索	王继山，赖申枝，许亚柯，徐佳	56
化工机械设备安装工程的质量控制	余胤坤	60

环保与节能

精馏塔控制和节能优化路径探究	李小刚	64
硫铁矿制硫酸中部分重金属相关问题的探讨	孙羽，刘轶，海莉，张运德	68
膜法水处理技术在生活污水处理中的应用	叶智谊	72
PBAT生产废水处理工艺研究	潘琨，苗红霞	76
碳中和背景下煤矿开采环境污染改善措施	色胜坤，李家春	79
新能源汽车电池回收行业污染防治措施	杨湘政，张东方，饶冰青，舒海民	82
固体废物环境影响评价策略	毛莲花	85

技术与信息

地热井钻井施工技术研究	张宏涛	89
悬空侧钻技术在小井斜井段应用分析	刘国飞	93
化工生产技术管理与安全生产	王乾德	96

目次

安全管理

化工企业消防监督管理机制改革的重要性	张凌, 叶高铭	100
石化企业加强危化品安全管理的策略.....	秦燕	103
化工企业安全生产事故发生原因及处理措施.....	柴红卫	107
精细化工企业危险化学品的管理策略.....	孙占栋	110
药品上市许可持有人委托生产安全监管问题与对策	张珊, 杨丹娅, 郭雄伟	113
粉尘爆炸预防与电气防爆措施.....	卢鑫, 曹兴成	116
化工企业火灾防控安全管理要点	胡铮	119
油田安全生产管理措施	刘海勇	122
化工企业火灾爆炸致灾因素及安全防控措施	田吉祥	125

设备运维

小焦炉试验数据的指导与应用.....	付恩祥, 孔鲁慧, 范继宗, 李峰, 金同喜, 徐瑞臣, 马士猛	128
有害气体检测传感器技术研究现状及进展	杨希军	131
化工装置中夹套管管道的配管设计	王欢欢	135
火电厂化学监测管理措施	凌玲	138

工艺管控

工艺安全管理与安全生产标准化的辩证关系	戴辰秋	142
控制焦末筛分量提升冶金焦率的实践应用	栾义涛, 范继宗, 孔鲁慧, 马士猛, 付恩祥, 徐瑞臣, 葛丽丽	145
针对水舱牺牲阳极耗蚀过快的防腐对策	赵士奇	148
氯硅烷平流双效精馏塔模拟	张科, 罗永刚, 彭冬寿	151
化工企业生产中的潜在风险与管理	颜作标	154
电池级碳酸锂制备工艺研究	莫延香	157

工程与施工

油气长输管道的规划设计及安保管理	刘春, 柏婷婷	160
渤海西南部变质岩潜山构造应力区划分及裂缝评价	王理荣, 张言开	163
海洋石油平台智能化场地建造提效措施	李金山, 张旭东	166

彩页说明

- 彩页1——华夏龙都·魅力濮阳
- 彩页2——濮阳新型化工基地
- 彩页3——《化工管理》征稿简则
- 彩页4——2024年度《化工管理》征订单

CONTENTS

Management strategy

Discussion on the Improvement of Management Efficiency of Petrochemical Enterprises by Instrument Control Status Management Platform	YANG Hai-he	1
Application of Early Intervention Concept in the Management of Offshore Oil Engineering Contractors.....	ZHOU Wei	4
Strategy of Double Prevention Mechanism Construction in the Field of Fine Chemical Industry	ZHANG Qian	7

Personnel Culturing

Construction and Practice of Inorganic Chemistry Online and Offline Mixed Teaching Mode	JIANG Yin-yan, WANG Cui-qiong, GUO Li-juan	10
Practice on and Probe into Ideological and Political Teaching in Process Measurement Instrument	LI Hai-xia, DING Wei	14
Practice and Exploration of Ideological and Political Teaching Reform in Inorganic and Analytical Chemistry Courses	YANG Shan-shan	18
Curriculum Politics Exploration of Organic Chemistry Experiment Teaching of Tea Major	ZHU Dong-jian, REN Ai-shan, XIE Wei, DUAN Zhen-hua	22
Research on Ideology and Politics Education in Principle of Catalysis.....	SHANG Ya-jing, HAN Xiao-qian	26
How to Improve the Comprehensive Ability of Chemical Engineering Students in Vocational Colleges	ZHAN Zong-rui, HOU Xia, LI Qian	30
Rain Classroom Helps Change the Teaching Mode of College Chemistry	ZOU Yi-ming, YANG Yi-hui, FAN Hua, HE Xiao-heng, QU Li-na, YAN Ying-lin	34
Reform Measures of Chemical Engineering Basic Teaching for Normal University Students	YANG Yun-xia, SHI Wei-zhong, ZHANG Hong-me, WANG Yan-qing	38
Path of Integrating Pharmaceutical Analysis Major into Curriculum Ideology and Politics under the Concept of “Golden Course”	ZHU Wan-ting, LIU Li-juan, CHEN Lei	42

Quality and Testing

Synthesis and Characterization of Multicomponent Organic Framework Compounds	LU Yao-yao, SHI Yun-jin, YANG Qi, WANG Zhong-yan, YU Yong-xin, YU Tao, LIN Lin	46
Analysis of Chemical Oxygen Demand, Permanganate Index, and Five Day Biochemical Oxygen Demand of Shiting River Water Quality	CHEN Si-jie, YANG Xian, RAN Xiu-hua, FU De-yu, GAO Qian-qian	49
Establishment and Application of Key Analytical Techniques for High Purity Isopropanol.....	SHI Rui	52
Exploration on the Ideological and Political Practice Education Model of Medicines Quality Curriculum Group in Chemical Engineering Colleges and Universities	WANG Ji-shan, LAI Shen-zhi, XU Ya-ke, XU Jia	56
Exploring Quality Control in Chemical Machinery Equipment Installation Engineering.....	YU Yin-kun	60

Environmental Protection and Energy Saving

Exploration of Distillation Tower Control and Energy Saving Optimization Paths	LI Xiao-gang	64
Discussion on Some Heavy Metal Related Issues in Sulfuric Acid Production from Pyrite	SUN Yu, LIU Yi, HAI Li, ZHANG Yun-de	68
Application of Membrane Water Treatment Technology in Domestic Sewage Treatment.....	YE Zhi-yi	72
Study on Wastewater Treatment Process of PBAT Production.....	PAN Kun, MIAO Hong-xia	76
Measures to Improve Environmental Pollution in Coal Mining under the Background of Carbon Neutrality	SE Sheng-kun, LI Jia-chun	79

CONTENTS

New Energy Vehicle Battery Recycling Industry Pollution Prevention Measures		
.....	YANG Xiang-zheng, ZHANG Dong-fang, RAO Bing-qing, SHU Hai-min	82
Strategies for Solid Waste Environmental Impact Assessment	.....	MAO Lian-hua
Technology and Information		
Research on Drilling Construction Technology for Geothermal Wells	.....	ZHANG Hong-tao
Application Analysis of Suspension Sidetracking Technology in Little Deviation Section	.....	LIU Guo-fei
Chemical Production Technology Management and Safety Production	.....	WANG Qian-de
Safty Management		
Importance of Reform of Fire Supervision and Management Mechanism in Chemical Enterprises	.....	ZHANG Ling, YE Gao-ming
Strategies for Strengthening Safety Management of Hazardous Chemicals in Petrochemical Enterprises	.....	QIN Yan
Causes and Treatment Measures of Safety Production Accidents in Chemical Enterprises	.....	CHAI Hong-wei
Management Strategy of Hazardous Chemicals in Fine Chemical Enterprises	.....	SUN Zhan-dong
Safety Supervision Problems and Countermeasures of Production Entrustment by Drug Marketing Authorization Holders	.....	ZHANG Shan, YANG Dan-ya, GUO Xiong-wei
Dust Explosion Prevention and Electrical Explosion-proof Measures	.....	LU Xin, CAO Xing-cheng
Key Points of Fire Control and Safety Management in Chemical Enterprises	.....	HU Zheng
Oilfield Safety Production Management Measures	.....	LIU Hai-yong
Disaster Factors and Safety Prevention and Control Measures of Fire and Explosion in Chemical Enterprises	.....	TIAN Ji-xiang
Equipment Operation and Maintenance		
Guidance and Application of Small Coke Oven Test Data	.....	FU En-xiang, KONG Lu-hui, FAN Ji-zong, LI Feng, JIN Tong-xi, XU Rui-chen, MA Shi-meng
Research Status and Progress of Harmful Gas Detection Sensor Technology	.....	YANG Xi-jun
Piping Design of Jacketed Pipe in Chemical Plant	.....	WANG Huan-huan
Chemical Monitoring and Management Measures for Thermal Power Plants	.....	LING Ling
Process Control		
Dialectical Relationship between Process Safety Management and Safety Production Standardization	.....	DAI Chen-qi
Practical Application of Controlling Coke Screening Volume to Improve Metallurgical Coke Rate	.....	LUAN Yi-tao, FAN Ji-zong, KONG Lu-hui, MA Shi-meng, FU En-xiang, XU Rui-chen, GE Li-li
Anti-corrosion Measures for Fast Sacrificial Anode Erosion in FPSO Process Water Tank	.....	ZHAO Shi-qi
Simulation of Chlorosilane Advection Double-effect Distillation Column	.....	ZHANG Ke, LUO Yong-gang, PENG Dong-shou
Potential Risk and Management in Chemical Enterprise Production	.....	YAN Zuo-biao
Study on Preparation Technology of Battery Grade Lithium Carbonate	.....	MO Yan-xiang
Engineering and Construction		
Planned Design and Security Management of Long-distance Oil and Gas Pipeline	.....	LIU Chun, BAI Ting-ting
Tectonic Stress Area Division and Fracture Evaluation of Metamorphic Rock Buried Hill in Southwest Bohai Sea	.....	WANG Li-rong, ZHANG Yan-kai
Effective Measures for Intelligent Site Construction of Offshore Oil Platforms	.....	LI Jin-shan, ZHANG Xu-dong