

管理方略

LNG模块建造项目中变更管理与案例分析·····	刘建军, 唐世振	1
低碳环境下制造企业成本控制及措施分析·····	柴敬涛, 李吉智, 黄清华	4
全球油气勘探业务趋势回顾与展望·····	王宇纯, 李伟	8
基于层次分析法评价影响石化装置统计数据的质量因素·····	郭海艳	12
论新时代流程工业项目的工程设计质量管理·····	王玉斌, 王广成	18
石油钻机售后服务满意度评价及提升策略研究·····	张涛	24

人才培养

基于STEM教学理念的仪器分析实验教学设计与实施 ·····	覃金萍, 熊刚, 唐玲玲, 沈雁翱, 张美林, 吴良雪	30
人工智能驱动无机化学实验教学创新的探索·····	康慧珏	34
基于OBE理念先进钻完井技术课程教学改革实践探索·····	王敬朋, 万涛	38
“新工科”背景下民办高校制药专业应用型人才培养模式探索·····	周丽, 何鑫, 杜新春, 左孝为, 苏志博	42
高职药学专业有机化学新形态教材建设探索·····	黄春花, 单振楠, 李帅, 张贵川	46

质量与检测

基于离子色谱分析的阴离子温度系数研究与应用 ·····	霍松岷, 熊袁杰, 唐语杉, 王宏庆, 傅晟伟, 谢林甫, 范开兴	51
ICP-MS法探究食品接触用硅油纸中金属迁移量·····	车锐, 罗玲	55
水处理剂聚丙烯酰胺检测方法的探讨·····	李蕊宁	60

环保与节能

城镇污水处理厂脱氮工艺技术研究与应用·····	高艳莉	64
化工制药污水处理厂精准控制碳源投加的探究·····	李泊娇, 宿永红	68
美国钠基烟道喷射脱酸副产物对环境危害的探讨·····	张志超, 廖坤添, 温明英, 张原, 赖毅强, 卢茂源	71

技术与信息

基于Weibull分布的管道内腐蚀失效概率定量计算模型研究 ·····	闫婷婷, 薛晓多, 李炳辰, 胡伟杰, 刘洋, 侯晋升	75
化工项目安全预评价的方法创新与实践应用·····	张永辉	81
智能场站建设探讨及实践·····	郝孝春, 左学谦	85
煤炭机电技术创新与应用·····	陈兵峰, 潘海涛	89
智能P&ID技术在油气勘探开发上的应用·····	任秋月, 刘燕, 冯家翔, 刘赫宇	93
地方高校管制化学品智能化管理模式探究·····	贺浪, 苏嫒, 王志杰	97

目次

安全管理

简析化工安全生产管理的问题与要点	陈启灶	102
海洋石油工程建设项目双重预防机制构建探讨	党博	106
实验室危险化学品管理问题及对策研究	张杰, 李洁, 黄广渊	109
特种作业人员安全教育培训模式优化策略	孙倩娜	112
城市燃气管道安全风险防范技术研究	王利国	116
化工行业危险废物管理和综合利用处置策略	李天明, 陈永春	120
浅谈核电厂危险化学品的安全管理	王梓山, 连靓雯, 邓清泉	124
Lab Take Two安全管理模式在科研实验室中的应用	崔磊明	128

设备运维

环境因素下仓储罐体防腐材料测试装置设计与应用	李伟	133
化工装置配管应力分析及其控制策略	刘强	137

工艺管控

短流程甲苯歧化和烷基化技术对二甲苯生产的优化研究	王子悦	141
基于HYSYS的三甘醇脱水工艺模拟与优化改造应用	曾建	144
Co/Cd-MOFs多孔碳材料的制备及对莫西沙星的降解	恭雪, 任琴会, 李华, 韩娇, 韦复华	148
提高二甲苯精馏塔分离效率的操作优化与节能策略	邓作丁, 陈兴渝	153
石油化工生产过程气固分离工艺的对比研究	杨灿, 罗玉湘	156

工程与施工

多方位地震勘探在南海A油田裂缝预测中的应用	孙永全, 邱能根, 薛志刚, 龙黎, 刘宾	159
几何变形检测技术在天然气长输管道中的应用	杨波	162
化工行业消防绿色建筑安装工程竣工检测的挑战与对策	孟鑫	165

彩页说明

彩页1——管理创新久久为功 赋能化工企业高质量发展——胡冬晨
彩页2——江西尔镁化工有限公司
彩页3——江西盐通科技有限公司
彩页4——江西三元药业有限公司
彩页5——江西新干盐化工业城
彩页6——关于假冒《化工管理》杂志社网站风险提示的公告

补白

应急管理部：安全生产执法聚焦四个关键点(23)；2025全国石油和化工行业科技创新大会召开(63)；《禁止化学武器公约》履约工作部际联席会议在京召开(123)；八部门联合发文23项措施支持小微企业融资(136)；世界燃气大会首次落地中国(140)

CONTENTS

Management Strategy

Change management and case study in LNG module construction project	LIU Jianjun, TANG Shizhen	1
Analysis of cost control and measures of manufacturing enterprises under low carbon environment	CHAI Jingtao, LI Jizhi, HUANG Qinghua	4
Global oil and gas exploration business trend review and prospects	WANG Yuchun, LI Wei	8
Evaluate the quality factors influencing the statistical data in petrochemical plants based on the analytic hierarchy process	GUO Haiyan	12
On the engineering design quality management of process industry projects in the new era	WANG Yubin, WANG Guangcheng	18
Research on satisfaction evaluation and improvement strategies of after-sales service for oil drilling rigs	ZHANG Tao	24

Personnel Culturing

Instrumental analysis experiment teaching design and implementation based on STEM teaching concept	QIN Jinping, XIONG Gang, TANG Lingling, SHEN Yan'ao, ZHANG Meilin, WU Liangxue	30
Exploration of inorganic chemistry experiment teaching innovation driven by artificial intelligence	KANG Huijue	34
Practice exploration of teaching reform of advanced drilling and completion technology course based on OBE concept	WANG Jingpeng, WAN Tao	38
Exploration on the training mode of applied talents for pharmaceutical specialty in private colleges under the background of "emerging engineering"	ZHOU Li, HE Xin, DU Xinchun, ZUO Xiaowei, SU Zhibo	42
Exploration on the construction of new form teaching materials for organic chemistry in higher vocational pharmacy	HUANG Chunhua, SHAN Zhennan, LI Shuai, ZHANG Guichuan	46

Quality and Testing

Research and application of the temperature coefficient of anions based on ion chromatography analysis	HUO Songmin, XIONG Yuanjie, TANG Yushan, WANG Hongqing, FU Shengwei, XIE Linfu, FAN Kaixing	51
Exploration of metal migration in silicone oil paper for food contact by ICP-MS	CHE Rui, LUO Ling	55
Discussion on detection method of water treatment agent polyacrylamide	LI Ruining	60

Environmental Protection and Energy Saving

Research and application of denitrification process technology in urban sewage treatment plants	GAO Yanli	64
Research on precise control of carbon source addition in chemical and pharmaceutical wastewater treatment plants	LI Bojiao, SU Yonghong	68
Discussion on the impact of environmental hazards of sodium based dsi byproducts in the united states	ZHANG Zhichao, LIAO Kuntian, WEN Mingying, ZHANG Yuan, LAI Yiqiang, LU Maoyuan	71

Technology and Information

Study on quantitative calculation model of internal corrosion failure probability in pipeline based on Weibull distribution	YAN Tingting, XUE Xiaoduo, LI Bingchen, HU Weijie, LIU Yang, HOU Jinsheng	75
Method innovation and practical application of chemical project safety pre-evaluation	ZHANG Yonghui	81
Discussion and practice on the construction of intelligent field station	HAO Xiaochun, ZUO Xueqian	85

CONTENTS

Innovation and application of coal electromechanical technology	CHEN Bingfeng, PAN Haitao	89
Application of intelligent P&ID technology in oil and gas exploration and development	REN Qiuyue, LIU Yan, FENG Jiaxiang, LIU Heyu	93
Research on intelligent management mode of controlled chemicals in local universities	HE Lang, SU Yuan, WANG Zhijie	97

Safety Management

Briefly analyze the problems and key points of chemical safety production management	CHEN Qizao	102
Discussion on the construction of dual prevention mechanism for offshore petroleum engineering construction projects	DANG Bo	106
Research on management problems and countermeasures of laboratory hazardous chemicals	ZHANG Jie, LI Jie, HUANG Guangyuan	109
Optimization strategy of safety education and training mode for special operation personnel	SUN Qianna	112
Research on safety risk prevention technology of urban gas pipeline	WANG Liguo	116
Chemical industry hazardous waste management and comprehensive utilization and disposal strategy	LI Tianming, CHEN Yongchun	120
On the safety management of hazardous chemicals in nuclear power plant	WANG Zishan, LIAN Liangwen, DENG Qingquan	124
Lab Take Two application of safety management mode in scientific research laboratory	CUI Leiming	128

Equipment Operation and Maintenance

Design and application of storage tank anticorrosive material testing device under environmental conditions	LI Wei	133
Stress analysis of piping in chemical plants and its control strategies	LIU Qiang	137

Process Control

Optimization study on short process toluene disproportionation and alkylation technology for xylene production	WANG Ziyue	141
Simulation and optimization of the dehydration process based on HYSYS	ZENG Jian	144
Preparation of Co/Cd-MOFs-derived porous carbon materials and degradation of moxifloxacin	GONG Xue, REN Qinhuai, LI Hua, HAN Jiao, WEI Fuhua	148
Operation optimization and energy saving strategies for improving the separation efficiency of xylene distillation column	DENG Zuoding, CHEN Xingyu	153
Comparative study on gas-solid separation technology in petrochemical production process	YANG Can, LUO Yuxiang	156

Engineering and Construction

Application of multi-azimuth seismic exploration in fracture prediction of South China Sea A oilfield	SUN Yongquan, QIU Nenggen, XUE Zhigang, LONG Li, LIU Bin	159
Application of geometric deformation detection technology in long distance natural gas pipeline	YANG Bo	162
Challenge and countermeasure of the completion inspection of the installation of green building for fire protection in chemical industry	MENG Xin	165