

- ◆ 《中国科学引文数据库》来源期刊
- ◆ 《中国学术期刊综合评价数据库》来源期刊
- ◆ 《中文科技期刊数据库》全文收录期刊

- ◆ 《中国核心期刊(遴选)数据库》收录期刊
- ◆ 《中国期刊全文数据库》收录期刊
- ◆ 《中国期刊网》《中国学术期刊(光盘版)》全文收录期刊



创建绿色家园

全面腐蚀控制

非君题

TOTAL CORROSION CONTROL



QK2118004

祝贺：

中国工业防腐蚀技术协会

成立 35 年

ISSN 1008-7818

9 771008 781147

0.5

万方数据

中国工业防腐蚀技术协会主办



全面腐蚀控制杂志社出版

05

2021.VOL.35
1986年创刊·公开发行

全面腐蚀控制

CONTENTS 目次

技术篇

【专论】

1 水处理药剂动态模拟实验研究及应用

/杨海燕

7 胶东接地极对某管道干扰检测及模拟分析研究

/王朋

13 硅烷薄膜工艺对车身耐腐蚀和外观的影响

/李宽

【经验交流】

20 转油站集输系统能耗分析及优化运行探讨

/刘苏毅

22 油田地面管道设备安装及集输管道施工技术分析

/李逍遥

24 硬质聚氨酯泡沫塑料保温层对埋地管道的影响及措施

/郭登科

26 浅析油田供热管线的腐蚀与防护

/周红霞

28 浅析石油天然气场站管道焊接工艺及质量管控

/卓越

30 浅谈油田地面施工中仪表安装

/张亚伟

万方数据

32 管道防腐补口存在问题与措施

/徐可

34 工业建筑结构防腐设计问题探讨

/徐娜

36 高温环境膨胀节开裂原因分析及修复案例

/杨永磊 张娟

40 倒装储罐罐顶内防腐施工工艺改进策略

/韩永志

42 浅谈单管通球不掺水集油管道施工管理要点

/杜晓毅

45 大型钢筋混凝土建筑防腐及防老化技术

/刘超

47 大口径管道焊缝DR检测系统和透照工艺技术的

试验研究

/陈剑

50 储油罐防腐的施工方法及控制途径

/王学强

52 城镇燃气聚乙烯管道热熔接头缺陷的检测技术

/蔡勤 郭欣欣 黄彬 韩佩城

56 滨海核电厂不锈钢管道腐蚀原因分析

/叶鸣钧 边春华 刘洪群 郑福亮

- 60 炼油装置防腐管理对策
/贾松波
- 64 渤海某平台海底管道腐蚀评估研究
/刘朝阳 何向阳 吴佳羽
- 69 Si含量对Al-Zn-Ga-Si合金组织及电化学性能的影响
/许 实
- 73 油田维修改造工程项目监理探讨
/曲洪锋
- 75 油田地面工程提高项目管理时效性的措施分析
/徐典龙
- 77 信息技术在建筑施工技术管理中的应用
/李显林 董 旭
- 80 石油天然气长输管道腐蚀检测修复及防范研究
/蒋风松
- 83 浅析油田电气施工中几个常见质量问题
/孙新民
- 86 管道防腐保温预制工艺技术研究
/刘玉亮 张宪国
- 88 电气工程改造的技术要点和施工管理研究
/息明威
- 91 大城市立体停车库建设中遇到的难题及对策分析
/陈宗泉
- 93 低负荷水处理站运行探讨
/苗 壮

【腐蚀研究】

- 96 长输管道防腐措施及施工注意事项
/张天宇
- 98 埋地金属管道腐蚀防护研究
/王立超
- 101 埋地管道牺牲阳极防腐效果影响因素
/车庆男
- 103 聚乙烯管 (PE) 热熔接头超声波检测问题分析
/韩光明 蔡 勤
- 109 管道涂层防腐技术的现状与发展探讨
/何文新
- 111 表面涂层技术在压力容器腐蚀防护上的
应用策略
/李 华
- 113 苯乙烯装置脱氢尾气凝液系统腐蚀原因分析
/黄新泉
- 117 供热管道的腐蚀原因及防腐措施解析
/丁有文
- 119 基于用户投诉的整车强化腐蚀试验问题比对
/沈 玥 刘东俭 陈 伟
- 125 浅谈飞机与飞机油箱腐蚀的研究现状
/郝兆辰 石 博 黄楚杰 雷 轩

TOTAL CORROSION CONTROL

(Monthly)

Vol. 35 No.05 (Serial No. 254)

MAY 28, 2021

CONTENTS

• Monograph •

- Research and Application of Dynamic Simulation Experiment of Water Treatment Agent.....YANG Hai-yan (1)
Detection and Simulation Analysis of Jiaodong HVDC Grounding Electrodes on Direct Current of a Pipeline.....WANG Peng (7)
Influence of Pretreatment Oxidation Film Process on Anti-corrosion Performance and Appearance of Car Body.....LI Kuan (13)

• Experience Exchange •

- Analysis on Energy Consumption of Gathering and Transportation System of Transfer Station and Discussion on Optimal Operation.....LIU Su-yi (20)
Technical Analysis on Installation and Collection Pipeline Construction of Oil Field Surface Pipeline.....LI Xiao-yao (22)
Influence of Rigid Polyurethane Foam Insulation Layer on Buried Pipelines and Measures.....GUO Deng-ke (24)
Analysis on the Corrosion and Protection of Oil Field Heating Pipeline.....ZHOU Hong-xia (26)
Analysis of Oil and Gas Field Station Pipeline Welding Process and Quality Control Excellence.....ZHUO Yue (28)
Instrument Installation in Oilfield Ground Construction.....ZHANG Ya-wei (30)
Problems and Measures of Pipeline Anti-corrosion Joint Coating.....XU Ke (32)
Discussion on Anticorrosion Design of Industrial Building Structure.....XU Na (34)
Cracking Analysis of Expansion Joint in High Temperature Environment and Repair Cases.....YANG Yong-lei, ZHANG Juan (36)
Research on Characteristic Aesthetic Education of art Senior High School.....HAN Yong-zhi (40)
Talking About the Key Points of Construction Management of Single-pipe Through-ball Without Water Oil-collecting Pipeline.....DU Xiao-yi (42)
Anti Corrosion and Anti Aging Technology of Large Reinforced Concrete Building.....LIU Chao (45)
Experimental Study on DR System and Transillumination Technology of Large Diameter Pipeline Weld Seam.....CHEN Jian (47)
Construction Method and Control Way of Anti-corrosion of Oil Tank.....WANG Xue-qiang (50)
Testing Technology In Defects of Butt fusion joint for Town Gas Polyethylene Pipeline.....CAI Qin, GUOXin-xin, HUANG Bin, HAN Pei-cheng (52)
Corrosion Analysis of Stainless Steel Pipeline in Coastal Nuclear Power Plant.....YE Ming-jun, BIAN Chun-hua, LIU Hong-qun, ZHENG Fu-liang (56)
Anti-corrosion Management of Refining Unit.....JIA Song-bo (60)
Study on Corrosion Assessment and Control Measures for Submarine Pipeline of a Platform in Bohai Sea.....LIU Zhao-yang, HE Xiang-yang, WU Jia-yu (64)
Effect of Si Content on Microstructure and Electrochemical Properties of Al-Zn-Ga-Si Alloy.....XU Shi (69)
Discussion on Project Supervision of Oilfield Maintenance and Reconstruction Project.....QU Hong-feng (73)
Analysis of Measures to Improve the Timeliness of Project Management in Oilfield Surface Engineering.....XU Dian-long (75)
Application of Information Technology in Construction Technology Management.....LI Xian-lin, DONG Xu (77)
Research on Corrosion Detection, Repair and Prevention of Long Distance Oil and Gas Pipeline.....JIANG Feng-song (80)
Analysis of Several Common Quality Problems in Oilfield Electrical Construction.....SUN Xin-min (83)
Research on the Prefabrication Technology of pipeline anticorrosion and heat preservation.....LIU Yu-liang, ZHANG Xian-guo (86)
Research on Technical Points and Construction Management of Electrical Engineering Transformation.....XI Ming-wei (88)
Analysis of the Problems and Countermeasures in the Construction of Three-dimensional Parking Garage in Big Cities.....CHEN Zong-quan (91)
Discussion on Operation of Low Load Water Treatment Station.....MIAO Zhuang (93)

• Corrosion Research •

- Anticorrosion Measures and Construction Precautions of Long Distance Pipeline.....ZHANG Tian-yu (96)
Study on Corrosion Protection of Buried Metal Pipelines.....WANG Li-chao (98)
Influencing Factors of Sacrificial Anode Anticorrosion Effect of Buried Pipeline.....CHE Qing-nan (101)
Analysis on the Problems of Ultrasonic Testing Fusion Welding Joint of Polyethylene (PE) Pipes.....HAN Guang-ming, CAI Qin (103)
Discussion on the Present Situation and Development of Pipeline Coating Anti-corrosion Technology.....HE Wen-xin (109)
Application Strategy of Surface Coating Technology in Corrosion Protection of Pressure Vessels.....LI Hua (111)
Analysis of Dehydrogenation Tail Gas Condensate System in Styrene Plant.....HUANG Xin-quan (113)
Analysis of Corrosion Causes and Anti-corrosion Measures of Heating Pipelines.....DING You-wen (117)
Comparison of Problems in Accelerated Corrosion Test based on User Complaints.....SHEN Yue, LIU Dong-jian, CHEN Wei (119)
Research Status of Aircraft and Aircraft Fuel Tank Corrosion.....HAO Zhao-chen, SHI Bo, HUANG Chu-jie, LEI Xuan (125)

Sponsored by China Industry Anticorrosion Technology Association (CIATA)

Edited and Published by the Editorial Department of TOTAL CORROSION CONTROL

Honorary Chairman of Editorial Committee: PAN Lian-sheng

Chairman of Editorial Committee: KE Wei

Editor in Chief: REN Zhen-duo (Concurrently)

Add: C-509, Yayunhaoting, No.9 Xiaoying Rd, Chaoyang Dist., Beijing, China

Post Code: 100101

Tel: (8610) 64896415 64896750

Fax: (8610) 64896415

Fixed Price: US\$ | 6.00

Web site: <http://www.ciata-tcc.com>

万方数据

KAiTECH

山东开泰抛丸机械股份有限公司
Shandong Kaitai Shot Blasting Machinery Share Co., Ltd.

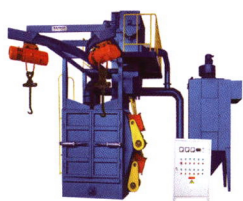
www.kaitaishotblasting.com

热烈祝贺山东开泰抛丸机械股份有限公司成功上市

股票简称：山东开泰 股票代码：832846



Q58系列积放式抛丸清理机



Q37系列吊钩式抛丸清理机



32系列履带式抛丸清理机



QR3210履带式抛丸清理机



Q48单行程系列吊链步进抛丸清理机

提供专业的金属表面抛（喷）丸技术解决方案

Provide professional metal surface shot blasting(peening) technology solution scheme

山东开泰抛丸机械股份有限公司

Shandong Kaitai Shot Blasting Machinery Share Co., Ltd.

地址：山东省邹平县青阳镇驻地 邮编：256217 电话：0543-4571868

传真：0543-4579169 邮箱：sales@kai-tai.com.cn

国际贸易部 电话：0531-88939891 传真：0531-88939198

机械公司 电话：0543-4578999 传真：0543-4570356



欢迎关注开泰集团微信



公司网站