

◆《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

TOTAL CORROSION CONTROL

惟志也
惟勤也

热烈祝贺国际（ISO）腐蚀控制工程全生命
周期标准化技术委员会提案获得投票通过，
中国成功担任秘书国

秘书国的秘书处国家已授权由我协会承担，
同时授权协会代表中国以积极成员（P成员）身份
参与该分委员会（ISO/TC156/SC01）活动和
承担该分委员会（ISO/TC156/SC01）国内技术
对口单位。

ISSN 1008-7818



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



09

2018.VOL.32

1986年创刊·公开发行

全面腐蚀控制

管理篇

【管理大家谈】

1 如何创新企业经济管理

文/孟悠琦

技术篇

【专论】

4 模拟加速环境下纯铜的腐蚀行为研究

/聂铭 梁永纯 黄丰 董重里 岳楹超

11 国内外大型油罐设计标准差异分析

/庄栋 苏彦杰 全春辉 张志刚

15 基于大数据的腐蚀控制工程全生命周期智能化建设

/王勋龙 王恩生 李传增 石鹏

【经验交流】

19 油田集输管道防腐技术优化探讨

/邵骞 黄新华 王凤学 巴爱叶

22 在役原油储罐缺陷修复技术研究

/付小明

25 提升油田地面建设工程施工质量的措施探讨

/吴景岩

28 浅析优化土建施工现场管理的措施

/于志刚

30 加强房屋维修工程项目管理的措施分析

/裴国军

32 化工电气设计中的问题及解决策略探讨

/董飞

34 油田地面建设工程项目风险管理探析

/闫鹏

36 变电站电力电气施工质量管理探析

/杨洋

39 应用均压线连接对多条管道实施强制电流阴极保护

/郑海岩

42 一种新的脱硫吸收塔壁穿孔在线修补技术

/余子炎

46 电磁/声波组合法在水下穿越管道检测中的应用

/尚博

50 RTU阀室太阳能供电系统对管道直流干扰的影响

/王巨洪 崔新华 腾延平 姜有文

56 南海某石油平台牺牲阳极消耗量分析与评估

/王智超 张亮 宋积文 陈胜利 王润 王秀通

61 浅谈长输(油气)管道的阴极保护有效性检测性能影响的比对研究

/张俊斌

68 数字摄影测量技术在油气田地面建设中的应用探讨

/李璠

70 某核电站SEC系统溢流井段管道阴极保护系统接线断路分析

/蔡英良 张彦坤 李伟光 沈新生

【腐蚀研究】

75 石化企业工艺法兰设备防腐蚀材料讨论

/李俊中

79 油田注水管线防腐浅谈

/高杰

83 运用双因素原理提高管理激励力

/贾玉成

85 浅析油田管线除垢防腐技术

/张伟华

87 公路桥涵水中砼结构的防腐处理探讨

/王发全

89 钢筋在公路桥梁施工中的腐蚀因素及处理

/贾纯斌

91 氟涂料在桥梁钢结构腐蚀防护中的应用分析

/王彦成

93 防范冬季撒盐对桥梁混凝土的腐蚀影响的措施分析

/祝希彬

95 钢结构防腐技术的应用及工程管理要点

/李灵运

97 地面集输容器内防腐施工及质量控制探讨

/王洪滨

TOTAL CORROSION CONTROL

(Monthly)

Vol. 32 No.09 (Serial No. 222)

SEP 28, 2018

CONTENTS

• Monograph •

The Investigation on Corrosion Behavior of Pure Copper in Simulated Accelerated Environment	NIE Ming, LIANG Yong-chun, HUANG Feng, DONG Chong-li, YUE Ying-chao (4)
The Difference Analysis on Large Scale Oil Tank Design Standards at Home and Abroad	ZHUANG Dong, SU Yan-jie, QUAN Chun-hui, ZHANG Zhi-gang (11)
Intelligent Construction of Corrosion Control Engineering Life Cycle based on Big Data	WANG Xun-long, WANG En-sheng, LI Chuan-zeng, SHI Peng (15)

• Experience Exchange •

Discussion on optimization of anti-corrosion technology for oilfield gathering pipeline	SHAO Qian, HUANG Xin-hua, WANG Feng-xue, BA Ai-ye (19)
Research on defect repair technology of in-service crude oil storage tank	FU Xiao-ming (22)
THE.....	WU Jing-yan (25)
Analysis of Measures to Optimize the Management of Civil Construction Sites	YU Zhi-gang (28)
Measures to Strengthen Management of House Maintenance Projects.....	PEI Guo-jun (30)
Discussion on problems and solutions in chemical electrical design	DONG fei (32)
Analysis on Risk Management of Oilfield Ground Construction Engineering Project.....	YAN Peng (34)
Analysis on Quality Management of Substation Power and Electric Construction	YANG Yang (36)
Cathodic Protection Technology with Equal Potential Wire Connection Applied on the Pipelines	ZHENG Hai-yan (39)
Perforation of the wall of a New Desulfurization Absorption Tower Online Repair Technology	YU Zi-yan (42)
Application of electromagnetic / Acoustic Wave combination method in underwater Pipeline Detection	SHANG Bo (46)
The Influence of the Solar Energy System of the RTU Valve Station on DC Interference of the Pipeline	WANG Ju-hong, CUI Xin-hua, TENG Yan-ping, JIANG You-wen (50)
Evaluation of the Consumption of the Anode on the Oil Platform in South China Sea	WANG Zhi-chao, ZHANG Liang, SONG Ji-wen, , WANG Run, WANG Xiu-tong (56)
Comparison Study on Effect of Cathodic Protection Performance of Long Transmission (Oil and Gas) Pipeline	ZHANG Jun-bin (61)
Digital Photogrammetry Technology Application in the Oil and Gas Field Surface Construction	LI Fan (68)
Wiring Analysis of Pipeline Connection in Overflow Section of SEC System in Nuclear Power Station	CAI Ying-liang, ZHANG Yan-kun, LI Wei-guang, SHEN Xin-sheng (70)

• Corrosion Research •

Material in Petrochemical Enterprises	LI Jun-zhong (75)
Elementary Introduction to the Anticorrosion of Oilfield Water Injection.....	GAO Jie (79)
Applying Double Factor Principle Improve Administration Encourage Power.....	JIA Yu-cheng (83)
A brief Analysis of the Corrosion Prevention Technology of Oil Field Pipeline.....	ZHANG Wei-hua (85)
Highway Bridge Water Preservative Treatment of Concrete Structure.....	WANG Fa-quan (87)
Corrosion Factor and Treatment of Reinforcement in Highway Bridge Construction.....	JIA Chun-bin (89)
Application of Fluorine Coating in Corrosion Protection of Bridge Steel Structure.....	WANG Yan-cheng (91)
Winter salt to Prevent Measures Analysis of the Impact of Corrosion in Concrete of the Bridges	ZHU Xi-bin (93)
Application of steel structure anticorrosion technology and key points of Engineering Management	LI Ling-yun (95)
Discussion on anti-corrosion construction and quality control in ground gathering container	WANG Hong-bin (97)

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>