

热喷涂技术

(Re Pen Tu Ji Shu)

2018年3月

第10卷

第1期

目次

综述

气雾化过程中合金熔滴的凝固行为研究进展..... 胡云飞, 李景昊, 周香林 (1)

锅炉受热面高温腐蚀涂层技术研究和应用进展..... 崔崇, 张倚雯, 周龙, 丁生宝 (8)

材料与涂层性能

纳米 YSZ 热障涂层高温时效过程中组织演变研究..... 原慷, 于月光, 冀晓鹏, 等 (15)

采用正交试验法优化等离子制备球形钨粉..... 侯玉柏, 韩兆新, 于月光 (23)

HVOF 制备的微纳米 WC-CoCr 涂层抗空蚀性能及数学模型

..... 柯杜, 丁彰雄, 丁翔, 王韶毅, 程旭东 (29)

超音速等离子喷涂抗冲蚀 7YSZ 热障涂层..... 袁涛, 汪瑞军, 邹卓然, 谢铮, 李涛 (36)

TZM 基体上制备 Al_2O_3 涂层的热冲击性能研究..... 梁娜, 郑剑平, 黄洪涛, 张国栋 (43)

机械化处理对镍包石墨包覆效果的影响..... 罗虞霞, 彭浩然, 鲍君峰 (48)

原位自生 $(Cr,Fe)_7C_3/Fe_3Al$ 复合材料组织结构及物相组成的研究..... 姜放, 沈婕, 袁建鹏, 杜开平 (55)

Al_2O_3 杂质对 YSZ 热障涂层性能的影响..... 李宇杰, 于月光, 冀晓鹏, 侯伟骜, 贾芳 (62)

译文

具有不同粗糙度的热喷涂铜合金涂层的杀灭芽孢效果..... 刘通译, 刘建明校 (69)

其它

CrAlY 粒径对复合电沉积 NiCrAlY 涂层成分与组织影响..... 李志平, 黄凌峰, 刘建明, 章德铭, 于月光 (75)

选区激光熔化 GH3625 显微组织及拉伸性能分析..... 屈岳波, 路超, 刘鹏宇, 肖梦智, 张瑞华 (80)

热喷涂技术

2018.1 (季刊)

主管单位 中国有色金属工业协会
主办单位 北京矿冶研究总院
编辑出版 北京矿冶研究总院《热喷涂技术》编辑部
印刷 廊坊海翔印刷有限公司
发行 《热喷涂技术》编辑部
地址 北京市昌平区沙河富生路5号
邮编 102206
电话 010-80723077
邮箱 ts_technology@163.com

期刊基本参数:

CN11-5828/TF*2018*q*16*86*zh*P* ¥10.00*3000*12*2018-01

国际标准刊号 ISSN 1674-7127

国内统一刊号 CN11-5828/TF

CONTENTS

Overview

- Research Progress on Solidification Behavior of Alloy Droplets during the Process of Atomization
..... HU Yunfei, LI Jinghao, ZHOU Xianglin(1)
- Progress of High Temperature Corrosion Resistance Coatings for Heating Surface Tubes in Boilers
..... CUI Chong, ZHANG Yiwen, ZHOU Long, DING Shengbao (8)

Materials & Coatings Properties

- Study on the Microstructural Development of a nano YSZ TBC in High-Temperature Ageing Processes
..... Kang Yuan, Yueguang Yu, Xiaojuan Ji, Xin-Hai Li, Krishna Praveen Jonnalagadda, Ru Lin Peng(15)
- Optimization of the Spheroidizing Tungsten Powder by Plasma Through Orthogonal Test
..... HOU Yu-bai, HAN Zhao-xin, YU Yue-guang(23)
- Resistance of Cavitation Erosion and Mathematical Model of HVOF Sprayed Micro-nano WC-10Co4Cr Coating
..... KE Du , DING Zhang-xiong , DING Xiang, WANG Shao-yi, CHENG Xu-dong(29)
- Supersonic Air Plasma Sprayed 7YSZ Thermal Barrier Coating with Better Erosion Resistance
..... YUAN Tao , WANG Ruijun , ZOU Zhuoran , XIE Zheng , LI Tao(36)
- Thermal Shock Behavior of Plasma Sprayed Al₂O₃ Coatings on TZM
..... LIANG Na , ZHENG Jian-ping , HUANG Hong-tao(43)
- Effect of Graphite Mechanization on the Cladding of Nickel in Nickel-Coated Graphite
..... Yuxia Luo , Haoran Peng , Junfeng Bao(48)
- Microstructure and phase composition of in-situ (Cr, Fe)₇C₃/Fe₃Al Composites
..... JiangFang, Shen Jie, Yuan Jianpeng, DU Kaiping(55)
- Effects of Al₂O₃ content on properties of YSZ thermal barrier coatings
..... LI Yu-jie, YU Yue-guang, JI Xiao-juan, HOU Wei-ao , JIA Fang(62)

Translation

- Sporicidal efficacy of thermal spray copper alloy coating with varying degrees of roughness
..... R. Shafaghi, L. Pershin, M. Riguette, J. Mostaghimi, Düsseldorf / D(69)

Others

- Effect of CrAlY Particle Size on Composition and Microstructure of Ni - CrAlY Coating Prepared by Composite Electrodeposition Li Zhiping, Huang Lingfeng, Liu Jianming, Zhang Deming, Yu Yueguang(75)
- Study on Microstructure and tensile properties of GH3625 forming parts processed by selective laser melting
..... QU Yuebo, LU Chao, LIU Pengyu, LIU Bo, ZHANG Yan, ZHANG Ruihua(80)

Responsible Institution: China Nonferrous Metals Industry

Sponsored by Beijing General Research Institute of Mining, Metallurgy

Edited & Published by Editorial Department of Thermal Spray Technology of Beijing General Research Institute of Mining & Metallurgy

Distributed by Editorial Department of Thermal Spray Technology

ADD: Shahe, Fushengroad, Changping District, Beijing 102206, China

Email: ts_technology@163.com
