

目 次

ARTICLE

- 不同粒度银粉的Ag-TiB₂触头材料电弧侵蚀行为 李航宇, 王献辉, 高倩雯等 (771)
耐折高导电性银浆的制备 邱彤彤, 郭冰, 胡岭等 (777)
堇青石表面化学气相沉积二氧化钛的负载机理及负载动力学 杨眉, 刘良文, 郑珩等 (782)
多元Al-7Si-0.3Mg合金热疲劳裂纹萌生与扩展行为 王正军, 董陈, 王子洋等 (792)
铈浓度对ZrH_{1.8}微弧氧化膜层阻氢性能的影响 李世江, 闫淑芳, 陈伟东等 (799)
超声振动和直流电耦合作用对润湿行为的影响 孙学敏, 俞伟元, 王锋峰等 (805)
固溶热处理对含碳镍基单晶高温合金AM3组织和偏析的影响 余竹焕, 费祯宝, 阎亚雯等 (813)
包埋法制备NiAl涂层NiCrW基高温合金的抗氧化性能 高杉, 邹俭鹏 (820)
微波原位制备作为锂离子电池电极材料的石墨烯/TiO₂纳米复合物 杨良伟, 陈昊然, 金鑫等 (826)
无氟电镀液中超声电沉积耐腐蚀纳米晶铜镀层 郑精武, 陈意顺, 付永成等 (834)
表面纳米化对纯钛阳极氧化膜组织及特性的影响 付天琳, 梅长云, 陈飞帆等 (842)
TA15合金基于变m值法超塑性研究 孙前江, 周建伟, 彭嘉豪等 (849)
脉冲电场下的7075双辊铸轧板热变形行为 苏鑫, 沈善忠, 徐纪波等 (857)
离心铸造和热轧对Mg-10Gd-3Y-1Sn合金组织和机械性能的影响 马振铎, 杨艳, 彭强等 (865)
合金元素对锆合金相变温度影响的价电子结构参数分析 李飞, 林成, 史艳华等 (872)
固体火箭发动机3D C/C材料喉衬热结构模拟与烧蚀行为 王富强, 陈建, 王坤杰等 (880)
基体表面形貌对Ni/Fe热喷涂及结合强度影响的原子模拟 雷春丽, 董建勇, 杨晨泽等 (887)
基于位错密度理论的核级316LN不锈钢高温本构模型 赵振铎, 李莎, 徐梅等 (894)

CONTENTS

ARTICLE

Arc Erosion Behavior of Ag–TiB ₂ Contact Materials with Ag Powders of Different Sizes	Li Hangyu,Wang Xianhui,Gao Qianwen et al 765
Preparation of Silver Pastes with High Electrical Conductivity After Folding	Di Tongtong,Guo Bing,Hu Ling et al 772
Loading Mechanism and Loading Kinetics of TiO ₂ on Cordierite Surface by Chemical Vapor Deposition	Yang Mei,Liu Liangwen,Zheng Heng et al 778
Thermal Fatigue Crack Initiation and Propagation Behavior of Multicomponent Al–7Si–0.3Mg Alloys	Wang Zhengjun,Dong Chen,Wang Ziyang et al 783
Effect of Cerium Content on Hydrogen Resistance of ZrH _{1.8} MAO Coatings	Li Shijiang,Yan Shufang,Chen Weidong et al 793
Effect of Ultrasonic Vibration Coupled with Direct Current on Wetting Behavior	Sun Xuemin,Yu Weiyuan,Wang Fengfeng et al 800
Effect of Solution Heat Treatment on Microstructure and Segregation of Carbon–Containing Nickel–based Single Crystal AM3 Superalloy	Yu Zhuhuan,Fei Zhenbao,Yan Yawen et al 806
Oxidation Resistance Behavior of NiAl Coating on NiCrW–based Superalloy by Pack Cementation	Gao Shan,Zou Jianpeng 814
In–situ Synthesis of Graphene/TiO ₂ Nanocomposites via Microwave as Anode Materials for Li–ion Batteries	Yang Liangwei,Chen Haoran,Jin Xin et al 821
Corrosion–Resistant Nanocrystalline Cu Coating by Ultra–sonic Electrodeposition in Cyanide–Free Electrolyte	Zheng Jingwu,Chen Yishun,Fu Yongcheng et al 827
Influence of Surface Nanocrystallization on Microstructure and Properties of Anodic Oxide Film on Pure Titanium	Fu Tianlin,Mei Changyun,Chen Feifan et al 835
Superplasticity Study of TA15 Alloy Based on Variable <i>m</i> Value Method	Sun Qianjiang,Zhou Jianwei,Peng Jiahao et al 843
Thermal Formability of 7075 Alloy Strip Under Electric Pulse Rheo–rolling Process	Su Xin,Shen Shanzhong,Xu Jibo et al 850
Effects of Centrifugal Casting and Hot Rolling on Micro–structure and Mechanical Properties of Mg–10Gd–3Y–1Sn Alloy	Ma Zhenduo,Yang Yan,Peng Qiang et al 858
Valence Electron Structure Parameter Analysis on Effect of Alloying Elements on Phase Transformation Temperature of Zirconium Alloys	Li Fei,Lin Cheng,Shi Yanhua et al 866
Thermo–structural Simulation and Ablation Behavior of 3D C/C Composites Throat in Solid Rocket Motor	Wang Fuqiang,Chen Jian,Wang Kunjie et al 873
Effect of Substrate Surface Morphology on Thermal Spraying and Bonding Strength of Ni/Fe via Atomistic Simulation	Lei Chunli,Dong Jianyong,Yang Shengze et al 881
Constitutive Model Based on Dislocation Density Theory for Nuclear–Grade 316LN Stainless Steel at Elevated Temperatures	

