

TABLE OF CONTENTS

目 录

Applications of Polymer Composites on Automotives

(聚合物基复合材料在汽车工业中的应用)

Y. J. ZHOU, T. YANG, G. H. FAN.....315

Influence of Solution Treatment Process Parameters on Semi-Solid 7075 Al Alloy Slurry

(固溶处理对半固态 7075 铝合金浆料组织的影响)

Y. F. KONG, X. Y. GUO, S. W. HE, M. J. SHI, B. YANG.....322

Study on the Preparation and Structure Characterization of Organobentonites

(有机膨润土的制备及其结构表征)

Y. L. XUE.....329

Surface Segregation in Pd-Si Thin Films

(钯 - 硅(Pd-Si)薄膜表面偏析研究)

Y. CHEN, L. H. HUANG, S. D. YANG, Y. H. ZOU, G. L. JIANG, J. Y. WANG.....334

Research Progress in Preparation Technology of Graphene

(石墨烯材料制备技术研究进展)

J. GU, Y. F. HE, X. P. ZHANG, L. FU, W. Y. YANG, A. M. PANG.....346

Effects of EDTA-2Na and Copper Acetate on *In-Situ* Hydrothermal Synthesis and Photocatalytic Performances of Cu₂S Films

(EDTA-2Na 和醋酸铜对 Cu₂S 薄膜水热原位合成及光催化性能的影响)

B. FENG, J. S. LIU, Z. Q. LI, A. W. MAO, Y. D. WANG, L. CHEN, Q. L. T. WANG,
H. M. YANG, J. K. CHEN, S. ZHANG.....361

Preparation and Photocatalytic Properties of Visible-Light Responsive Convex Polyhedra-Like AgCl Nanoarchitectures

(可见光响应型纳米 AgCl 凸多面体制备及光催化性能研究)

T. Y. ZHOU, H. P. LIU, B. WU, F. CAO.....370

Fabrication and Properties of Titanium Based Flexible Organic Perovskite Solar Cells

(基于钛金属的柔性有机钙钛矿太阳能电池的制备及特性研究)

H. GUO, L. WANG, X. WANG, P. X. YANG, C. B. JING, J. H. CHU.....378

The Influence of Boss Welding on Residual Stress of Electric Welding Longitudinal Pipes

(凸台焊接对高频直缝电阻焊管残余应力的影响)

S. J. QIU, M. J. HU.....386

Properties of Polylactic Acid/Polyethylene Oxide Thin Film

(聚乳酸/聚氧乙烯薄膜的性能研究)

Q. YUAN, H. D. LI, F. M. CHENG.....392

Property Analysis of Carbon Nanotube Composites with Agglomerations

(团聚效应碳纳米管复合材料特性分析)

L. C. BIAN, Z. M. XUE, J. PAN, W. LIU, S. R. MENG.....398

The Finite Element Analysis of Bilayer Structure of ZrO_2 and Al_2O_3 and ZrO_2/Al_2O_3

Gradient Material

(氧化锆与氧化铝双层结构及梯度材料配合的有限元分析)

Z. H. ZHANG, G. Y. XIE, Z. ZHANG, Y. CHEN.....407

Models of Diffusion and Stress in Thin Films

(薄膜中的扩散与应力模型)

B. LIN, Z. B. DAI, M. Y. GAO, J. Y. WANG.....413

Friction and Wear Characteristics of Ceramic Film Produced on Magnesium Alloy by

Micro-Arc Oxidation

(镁基表面微弧氧化陶瓷膜的摩擦磨损特性)

P. W. ZHI, Y. DONG, L. W. YANG, P. JIA, T. C. WANG, L. WANG.....432

Research on the Sintering Process of the Zirconia Ceramics Tape Casting Uropatagia as the

Backboard of the Mobile Phone

(手机背板用氧化锆陶瓷流延片烧结工艺研究)

X. B. HUANG, G. Y. XIE, P. ZHAO, L. GONG, H. Y. LIN, C. DU.....442