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Липенский А. В.
Эксперт по электронным ресурсам
ООО «Датаграмм»

Эволюция CNKI



1995

Цифровое издательство China Academic Journals (CD-ROM). Революция в издательской отрасли KHP

1999

China Journal Net – официальный запуск первого ресурса из проекта China National Knowledge Infrastructure (CNKI)

2003

Сотрудничество с Гонконгским университетом, послужившее началом международной экспансии: представительства в Германии, Японии, Южной Корее и на Тайване.

2008

Релиз Academic Misconduct Literature Check System – системы обнаружения нарушений в академической литературе

2020

Более 1000 партнеров по всему миру, завершение работы над World Knowledge Big Data Platform. Количество метаданных на иностранных языках достигло 100 миллионов записей.

2023

Запущена многоязыковая платформа CNKI International Platform, поддерживающая китайский, английский, японский, корейский, русский и арабский языки.

2023

Релиз Huazhi Large Language Model и CNKI AI

2025

Представлены революционные решения интегрированных информационных ИИ сервисов 'AI for Library,' 'AI for Knowledge,' 'ThesisWize.'



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Journal of Northeast Forestry University ,Issue01,2026

Yang Yanling;Yang Dong;Zhang Zhaoping;Wu Yuping;Huang Xiaowei;Chen Ying;Huadong Engineering (Fujian) Corporation Ltd.;Fujian Agriculture and Forestry University

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2. Comprehensive Evaluation of Soil Quality in Typical Water Conservation Forests in the Upper Reaches of Baiyangdian Lake Based on a Minimum Data Set

Journal of Northeast Forestry University ,Issue01,2026

Ma Xiaoyun;Li Shubing;Chen Meixiong;Wang Dongxu;Qiao Feng;Shen Yitong;Yang Xinbing;Hebei Agricultural University;Wujiu Railway Passenger Dedicated Line Huaiyin Station

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1. Source process of the 2021 M W6.6 outer rise earthquake off the west coast of Sumatra

Reviews of Geophysics and Planetary Physics ,Issue01,2026

Bagus Adi Wibowo;Hongru Li;Anisa Nurbaeti Rahayu;Ling Bai;Supriyanto Rohadi;Putu Hendrayana

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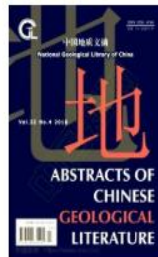
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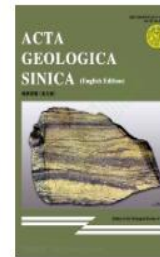
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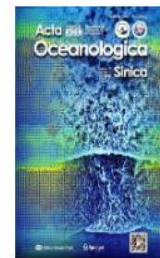
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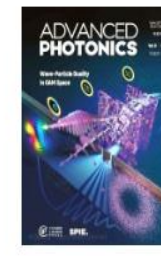
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先进光子学(英文), Issue03, 2026

Ye Xing; Diefei Xu; Yuan Li; Rongchang Chen; Wuhong Zhang; Lixiang Chen; Xiamen University, Department of Physics;

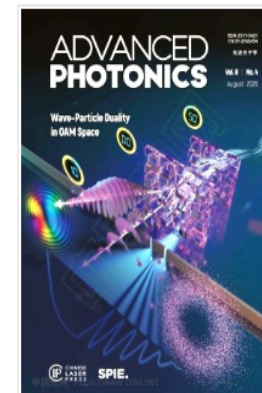
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2. Phonon engineering in Nd³⁺-doped garnet lasers: filling the yellow gap and boosting fluorochrome excitation



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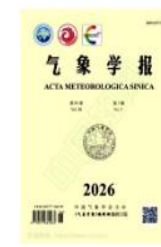
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LI Xue-jing;DI Dong-sheng;HAN Yan-feng

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2. Evolution of International Order, Domestic Politics, and Rationalist Analysis of Russia's Nuclear Strategy Transformation

Northeast Asia Forum ,Issue02,2026

XU Bo;ZOU Songyang

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3. Russia's Adjustment of Its Great Power Identity Narrative and Global South Diplomacy

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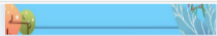
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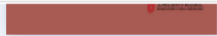
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题目： 下一代雷达系统中高效极化转换和雷达
截面减小的智能超表面研究与设计

学 号： 2019090008
姓 名： SAIMA QURESHI (赛玛)
学科专业： 电子科学与技术
学习方式： 全日制
导 师： 余建国
学 院： 电子工程学院

2025 年 05 月 21 日

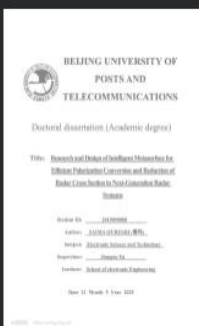
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3



BEIJING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS

Doctoral dissertation (Academic degree)

Title: Research and Design of Intelligent Metasurface for
Efficient Polarization Conversion and Reduction of
Radar Cross Section in Next-Generation Radar
Systems

Student ID: 2019090008

Author: SAIMA QURESHI (赛玛)

Subject: Electronic Science and Technology

Supervisor: Jianguo Yu

Institute: School of electronic Engineering

Date 21 Month 5 Year 2025

field vector at some point in space, which changes with time^[18]. Polarization is a core feature used in optical imaging, telecommunications, contrast imaging, molecular biotechnology, and optical sensors^[19]. There are three types of polarizations, as discussed below.

1.3.1. Linear Polarization

If, at a fixed position, the electric or magnetic field vector of a sinusoidal electromagnetic wave maintains a constant direction while its magnitude varies, the wave is linearly polarized. The condition of linear polarization may be satisfied by either of the following arguments: a) either the electric or magnetic field vector has a non-zero component in the polarization basis at a given position; b) The field vector comprises two orthogonal linear components that are in phase shift 0° or have a phase difference of 180° . An illustrative representation of a linearly polarized wave is provided in Figure 1-4.

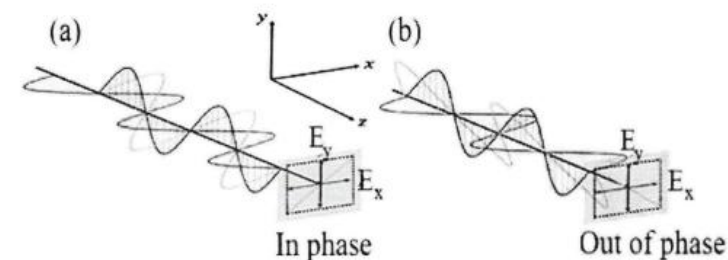


Figure 1-4: (a) Linearly polarized when orthogonal components E_x and E_y are in phase. (b) Linearly polarized when orthogonal components E_x and E_y are out of phase.

Assuming that, an electric field $\vec{E}$ propagating along the z -axis may be represented by its orthogonal components, E_x and E_y , both of which are contained within the plane perpendicular to the z -direction. The instantaneous electric field vector is then expressed:

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Computer Measurement & Control

Issue 07, 2007, Pages 931-932

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Research on Measurement of Radar Absorber Reflectivity in Far-field Condition

Guo Fang,Hu Chufeng,Li Nanjing(UAV Specialty Technique Key Lab,of National Defense Technology,Northwestern Polytechnical Univ.,Xi'an 710072,China)

西北工业大学无人机特种技术国防科技重点实验室,西北工业大学无人机特种技术国防科技重点实验室,西北工业大学无人机特种技术国防科技重点实验室 陕西西安710072,陕西

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DOI: CNKI:SUN:JZCK.0.2007-07-031



Keywords

far-field;reflectivity;PNA;time-domain.



Abstract

The method of RCS measurement in far-field condition is commonly used to measure the radar absorber reflectivity.The method of stepped-frequency time-domain measurement is presented first by PNA Agilent8363A,which is based on GJB 2038-94.Compared standard plate with absorber adhered to the plate,the reflectivity of absorber can be obtained,however,it's hard to be vertical for the plate and transmit wave.Then,an improved method on measurement is proposed to the problem in the measurement.Finally,the result of measurement is given.by analyzing the two methods,precision of measurement is improved by the latter.



References

[1]赵京城,薛明华,王振荣.暗室用吸波材料大入射角吸波特性测试方法研究[J].微波学报,2001,(4):1-5.

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张柯翔



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ESP32;4G Network;FreeRTOS;Wireless;Access Control;Security

Abstract

Smart community is not only the key content of smart city development, but also the foundation of smart city. As one of the many Internet of Things devices in the construction of smart communities, higher requirements for its convenience and cost performance are required by people because of the particularity of frequency and environment of using access control system. Therefore, it has high application value to develop a safe, convenient and high cost performance access control system. The current status of the system is studied in this paper. And there are some shortcomings in the existing system.

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1.5 本文研究内容与结构安排

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张柯翔

广西师范大学

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Computer Measurement & Control. 2007, (07)



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Guo Fang,Hu Chufeng,Li Nanjing(UAV Specialty Technique Key Lab,of National Defense Technology,Northwestern Polytechnical Univ.,Xi'an 710072,China)

Abstract: The method of RCS measurement in far-field condition is commonly used to measure the radar absorber reflectivity.The method of stepped-frequency time-domain measurement is presented first by PNA Agilent8363A,which is based on GJB 2038-94.Compared standard plate with absorber adhered to the plate,the reflectivity of absorber can be obtained,however,it's hard to be vertical for the plate and transmit wave.Then,an improved method on measurement is proposed to the problem in the measurement.Finally,... [More](#)

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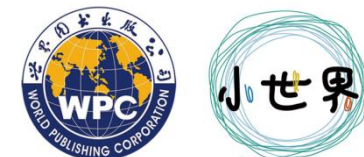
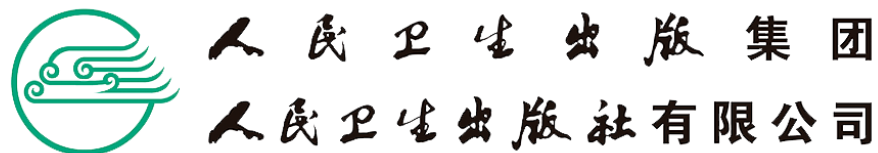
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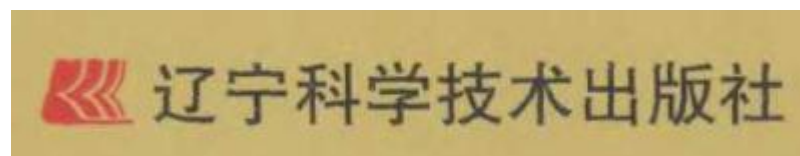
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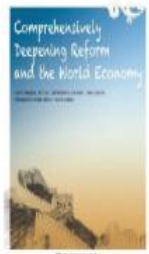
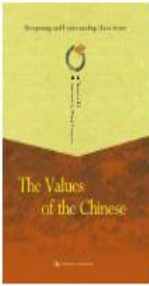
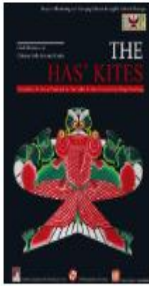
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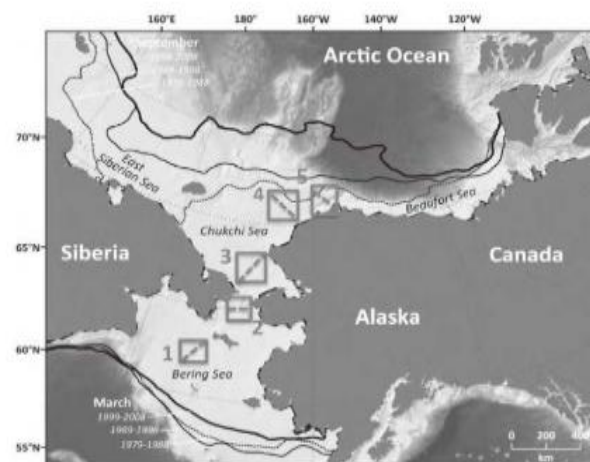


Figure 11-1 The Area of China's Arctic Research Expeditions

China's Arctic research expeditions are multidisciplinary and comprehensive, mainly in the Bering Sea, Chukchi Sea and the Canadian basin. Each voyage usually undertakes 1 to 2 DBO monitoring sections. South Korea's annual arctic expedition focuses on the ecological environment, mainly in the Bering Sea, Chukchi Sea and the edge of the Chukchi Sea, undertakes the DBO monitoring section inspection. Japan's annual Arctic expedition focuses on physical oceanography, which is mainly concentrated on the edge of the Chukchi Sea.

In the spring of 2014, PAG Working group published the joint observation and research results, "The Pacific Arctic Region: An Introduction".¹ As a

1 Grebmeier J.M., Maslowski W., "The Pacific Arctic Region: An Introduction" in

大学物理实验



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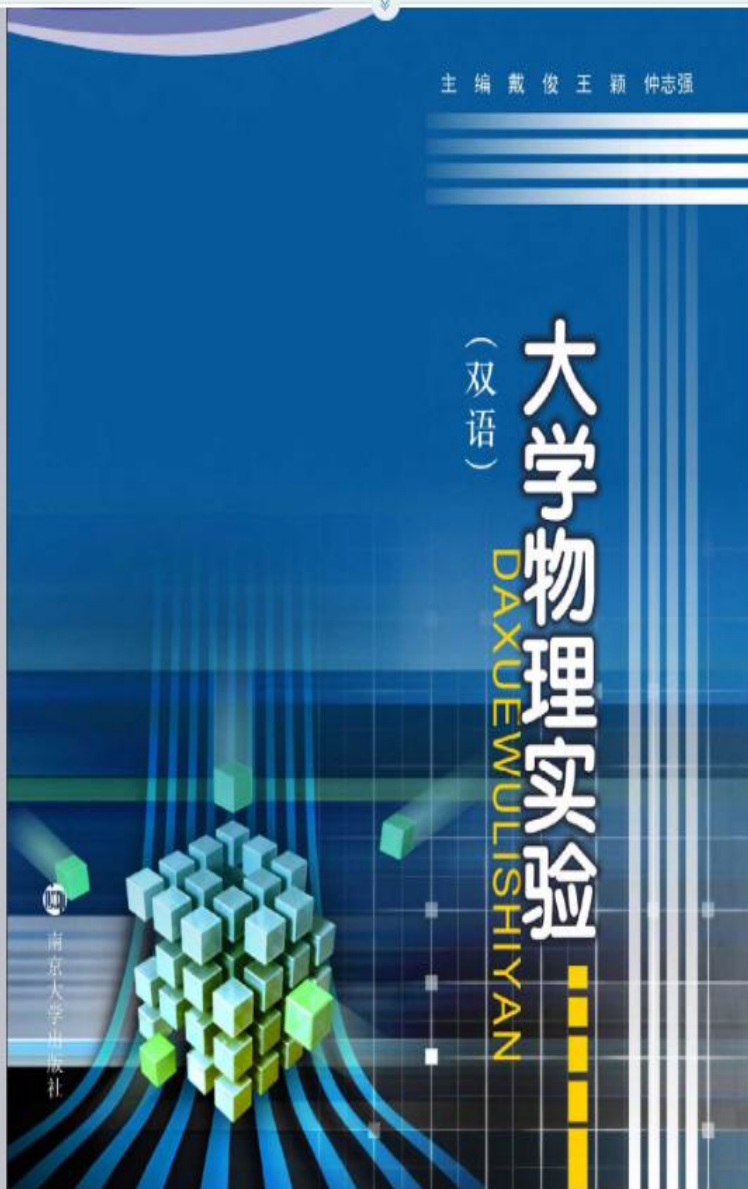
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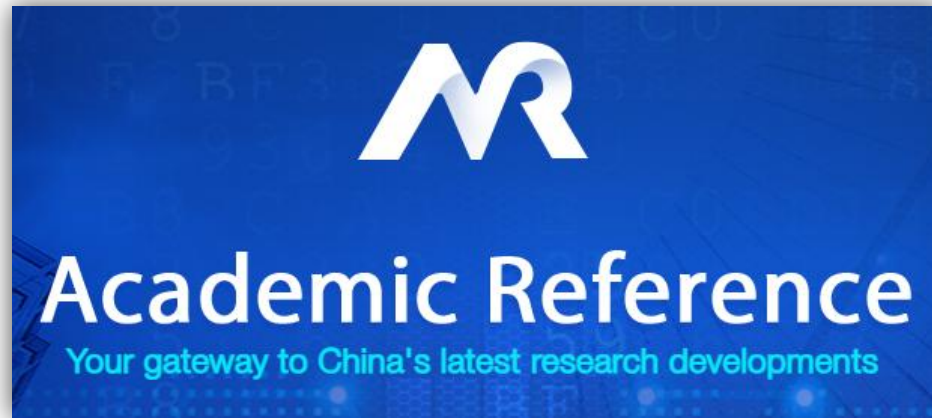
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1. Silicon wafer thickness measurement based on spectral-domain low-coherence systems

Laser Technology ,Issue04,2026

CHU Jiaxin;WANG Huiqing;YU Houyun

▼ Abstract



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Bilingual

此英文版本为编辑部提供。The English version is provided by the editorial office. In the digital era, silicon wafers are the core foundation for the electronics and optoelectronics industries, and their thickness plays a crucial role in device performance, process stability, and product quality. Silicon wafer thickness directly relates to electrical characteristics, thermal conductivity, and mechanical strength, and affects the efficiency of manufacturing processes such as lithography and etching. Improper thickness control can easily lead to stress concentration, wafer breakage, and failure, thereby reducing yield. Therefore, achieving high-precision measurement and control of silicon wafer thickness is a critical task for ensuring quality and reliability in advanced manufacturing. In this study, a spectral-domain low-coherence interferometry method was used to measure the measurement optical path (Fig.2), and an aiming module (Fig.3) was introduced to address the issue of system dead zone, thereby improving the stability and clarity of interference fringe acquisition. Given that raw interference signals could not be directly used for distance calculation, we introduced a fringe-contrast-based signal extraction algorithm to screen and obtain the optimal interference spectrum. The raw in-

Silicon wafer thickness measurement based on spectral-domain low-coherence systems

CHU Jiaxin¹, WANG Huiqing^{1}, YU Houyun²*

(1. School of Instrument Science and Engineering, Southeast University, Nanjing 210096, China; 2. College of Mechanical and Electrical Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing 210016, China)

Abstract

In the digital era, silicon wafers are the core foundational materials for the electronics and optoelectronics industries, and

their thickness plays a crucial role in device performance, process stability, and product reliability. Silicon wafer thickness directly relates to electrical characteristics, thermal conductivity, and mechanical strength, and affects the consistency of key manufacturing processes such as lithography and etching. Improper thickness control can easily lead to stress concentration, warpage, or even device failure, thereby reducing yield. Therefore, achieving high-precision measurement and control of silicon wafer thickness is a critical prerequisite for ensuring quality and reliability in advanced manufacturing.

In this study, a spectral-domain low-coherence interferometry method was used to construct the measurement optical path

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1. Progress of Flight Mechanics Related to Prof.TSIEN H. S.

Tactical Missile Technology ,Issue06,2009

Guan Shiyi(The Third Research Academy,CASIC,Beijing 100074,China)

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2. DEVELOPMENT OF COMPUTATIONAL FLIGHT MECHANICS

Acta Aeronautica Et Astronautica Sinica ,Issue01,2001

GUAN Shiyi (See Eagle Electro-Mechanical Tech. Academy, Beijing) 100074, China)

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1. Subspace Based System Identification of Small-Scale Helicopter Flight Dynamics

Journal of Nanjing University of Aeronautics & Astronautics ,Issue05,2008

Sun Tao,Song Yanguo,Zhang Chenglin(National Key Laboratory of Rotorcraft Aeromechanics,Nanjing University of Aeronautics & Astronautics)

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2. Identification of Flight Dynamics Model of Model-scale Helicopter in Hover Condition

Acta Aeronautica Et Astronautica Sinica ,Issue01,2009

Sun Tao,Song Yanguo,Zhang Chenglin(National Key Laboratory of Rotorcraft Aeromechanics,Nanjing University of Aeronautics and Astronautics)

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碳纳米管	carbon nano tube	China National Committee for Terms in Sciences and Technologies	
纳米复合材料	nano- composite	China National Committee for Terms in Sciences and Technologies	
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1. P(AN-MMA)/TiO₂ Nano-composite Polymer Electrolyte by in-situ Polymerization

Journal of Fudan University(Natural Science) ,Issue05,2007

Ji Zhou, Deshu Gao, Zhaohui Li, Tiepeng Zhao, Xiaohua Yi(College of Chemistry,Xiangtan University,Hunan 411105,China)

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2. Magnetization arrangement of hard magnetic phases and mechanism of magnetization and reversal magnetization of nano-comp

中国有色金属学报(英文版) ,Issue05,2009

LIU Xin-cai,XIE Ren,PAN Jing State Key Laboratory Base of Novel Functional Materials and Preparation Science, Faculty of Materials Science and Ch

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3. Fabrication and Characterization of Ni-Al₂O₃ Nano-Composite Coatings by Sediment Co-Deposition

Rare Metal Materials and Engineering ,IssueS3,2009

Feng Qiuyuan1, Zhang Jian1, Li Tingju1, Qi Kai1, Zhang Xiaoli1, Teng Haitao1, Zhang Yu1, Liu Changsheng2, Jin Junze1 (1. State Key Laboratory of

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New Building Materials ,Issue06,2003

张延武,范宏,李伯耿

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The preparation technology for polyolefin nanometer compound material divided into co-mix process and in-situ polymerizing process overall. The preparation technology for polyolefin laminated silicate nanometer composite is special. This paper sums up the material properties and preparation technology progress in recent years, and discusses characteristics of every kind of preparation process. This material can be widely used for aviation, automobile, household appliances, building decorative material with bright application prospect.

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Липенский А. В.

Эксперт по электронным ресурсам

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