

<<中国科学与技术进展>>

图书基本信息

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前言

To enlarge the service and influence of the Chinese scientific Papers to the researchers and other users of the English language world and promote the international exchange between Chinese and foreign scientists , the English-language Proceedings ( the Proceedings of the China Association for Science and Technology ) has been inaugurated in series since 2004. Collected in this volume are 81 English Papers selected from the 11th Annual Conference of the China Association for Science and Technology held in Chongqing , China , September 7-10 , 2009 , and the Chinese journals which are sponsored by the 170 member societies ( their names are listed in the back of this Proceedings ) of the China Association for Science and Technology. The Annual Conference of the China Association for Science and Technology has entered its eleventh one since 1999. It is gratifying that the eleven annual conferences have won the high recognition of the Chinese government and the scholars from home and abroad. The Conferences provide a forum for the open exchange of information and ideas in the fields of science and technology. The papers cover the following aspects : Agricultural Science , Chemistry and Chemical Engineering , Biology , Environmental Science and Technology , Medicine and Pharmacology , Safety Science and Technology , Mechanics , Forestry , Traffic Engineering , Physics , and Miscellaneous. It is sincerely hoped that , as a consequence of this conference , the academic exchange between specialists and scholars would be continued and strengthened. In addition , we greatly appreciate the authors for providing the excellent papers describing their latest achievements in their researches.

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内容概要

This monograph ( the Proceedings of the China Association for Science and Technology , V01.6 ) collects 24 selected Paners presented at the 11th Annual Conference of China Association forScience and Technology , Chongqing , September 7-10 , 2009 , and 57 selected papers published inChinese journals sponsored by the member societies of the China Association for Science and Technology. These papers cover the following aspects : Agricultural Science , Chemistry and Chemical Engineering , Biology , Environmental Science and Technology , Medicine and Pharmacology , Safety Science and Technology , Mechanics , Forestry , Traffic Engineering , Physics , and Miscellaneous. Many novel research results on these fields achieved during the last few year sare mentioned in the Proceedings.

## 书籍目录

Selected Papers Presented at the 11 Annual Conference of the China Association for Science and Technology ( September 7-10 , 2009 , Chongqing , China )

Study on Fire Temperature Field of Narrow Cabin Heat Shock Protein 72 Associated with Alpha-fetoprotein in Human Hepatocellular Carcinomas

Study on Technique of Brewing "An pear" Wine

Research on Classification of Pseudo-Cancer and Cancer

New Development in Pseudo-Cancer Research

Design of Small Straw Roller Cutter Mill

Floristic Analysis on Seed Plant in the Fluctuating Band along Riversides of Three Gorges Reservoir Area

Experimental Study of Low Voltage Insulation Resistance with Temperature

Fire Risk Assessment Software Development for Filling Stations

Numerical Wind Tunnel Tests for Plate-cone Reticulated Shell

Risk Valuation for Real Estate Projects Based on Fuzzy Theory

Non-metals Burning Characteristics and Evidences for Fire

Reflection and Suggestion on Sprinkler System Built in Low-level Civil Buildings

Analysis about the Viscoelastic Parameters to the Structure of Energy Dissipation Effect

Research on Landslide Predication through Analysis on Macro-Observation Phenomenon and Deformation Trend

Application Research of Green Maintenance of Revetment System in the Three Gorges Reservoir Shore

Risk Management Modes and Their Applications in the Construction Process of Large Infrastructures

New Method of the Slope Stability Analysis Under Earthquake

Further Studies on Callus Induction of *Pha/aenops/s*

Gene Design of Human Follicle-Stimulating Hormone and Expression in Eukaryotic Cells

Statistical Analysis of National Electrical Fire in 2003-2007

Study of PVC Wire Insulation Residues Characteristic in 4.5 Times Over-current

Study on Identification Methods of Electrical Fire Debris by Physical or Chemical Testing

Analysis on Earth Fault and Propagation Characteristics of Electrical Fire

Part B Selected Papers from Chinese Journals Sponsored by the Member Societies of the China Association for Science and Technology

Section 1 Agricultural Science

Potassium Efficiency and Potassium Balance of the Rice-Rice Cropping System in Different Type of Ecosystem Regions

Detection of *Fusarium oxysporum fsp.cucumarinum* by PCR-RFLP and Nested-PCR

Crop Simulation System Based on Web Service and GIS

Feeding Habit and Economic Threshold of *Locusta migratoria Tibetensis*

Tissue Culture of Immature Embryo and Parentage Identification of Hybrids from Crosses of *C. taliens* Melchiorx *C. sisensis* " Fuding Dabaicha "

Influences of Simulated Acid Rain on Seed Germination and Seedling Physiological Characteristics in Different Colored Cotton Va

Tieties

Study on Inactivation of Enzymes in Bitter Gourd ( *Momordica Charantia* Lcby Microwave

Development of Commercialized Treatment on Garden Products after Harvesting

Superinfection of *Wolbachia* in *Ostrhziafurnacalis* ( *Guen6e* ) populations in Beijing

Section 2 Chemistry and Chemical Engineering

Analysis of Intrinsic Superconductive State and Calculation Method of Superconductive Critical Temperature

Activation Energy of Oxidation of a Co-base Superalloy at High Temperatures

Progress of Upgrading Biomass Pyrolysis oil

Study on Reaction Mechanism of Heptene and H<sub>2</sub>S on Acid Catalysts I

Formation Mechanism of Mercaptans and Thioethers

Study on Reaction Mechanism of Heptene and H<sub>2</sub>S on Acid Catalysts II

Formation Mechanism of Thiophenic Compounds

Gas-phase Passivation of Presulfided Hydrogenation Catalysts

Study on Electroless Ni Plating of Polyurethane Foam

Study on Interaction between Cerium and Tin in Steel

Influence of SiO<sub>2</sub> and FeO Contents in Charge on Sinter Strength

Section 3 Biology

Effects of Tubeimoside 1 on Apoptosis of Human Umbilical Vein Endothelial Cells and Tumor-Induced Angiogenesis

Effect of Cultural Condition on the Capability of Complex Microbial System to Degrade Cellulose and Lindane

Use of DNA Barcoding to Assess the Taxonomy Status of a New Wild Silkworm

Effects of Different Kinds of Fertilization Modes on Yield , Nitrate Content of Vegetable and Nitrogen and Phosphorus Losses in Vegetable Field

Identification and Characterization of an Antagonistic Strain L 1 Against *Phyricularia Grisea*

DNA Extraction from snlvin and Optimization of RAPD Reaction Conditions

Intemalization of *Lactobacilus* into Mice Intestine Peyers Patches and Its Effect Factors

Activity Screening of Thiazolidine 4carboxylic Acid Ethyl Ester by Cell Membrane Chromatography

Quantitative Classification and Ordination of Forest Communities in Three Gorges Reservoir Area

Section 4 Environmental Science and Technology

Heavy Metal Content and Ecological Risk Warming Assessment of the Vegetable Land-Soil near the Tailings-Areas of Mobrbdenum ore

Analysis over the Mercury Content and Safety Evaluation of Wild Growing Mushrooms in Xichang District , Sichuan , China

Determination

of Trace Copper in Seawater by Flow Injection Catalytic Spectro photometryPotential Ecological Risk Evaluation of Heavy Metals in the Intertidal Zone Sediments of Tanggu , TianjinECO-tourism Value of Mountain FlowersSection 5 Medicine and PharmacologyResearch on Trehalose Eye Drops Containing Sodium HyaluronateProgress on Biochemical Drugs in China during 2007Purification and Composition Analysis of Polysaccharide RCPS from Rhodiola CrenulataSection 6 Safety Science and TechnologyResearch on GIS 3D Spatial Data Integration and Its VisualizationOverview on Decision-making Research in Safety Investment based on Real option-gamesInfluence of Explosive Enlargement and Explosive Lining on Moisture Content of SoilResearch on Motivation Strategies for the Inherent Power of Safety Management in Small and Medium PrivateEnterprisesSection 7 MechanicsResearch on the Motion Trace of In-Pipe Inspection Robot through ElbowRoadheader Loading Simulation for Hard-rock CuttingFailure Diagnosis for Coal Transport System of Continuous Miner Base on Neural Network Improved GA and PSO Algorithm.....Section 8 ForestrySection 9 Traffic EngineeringSection 10 PhysicsSection 11 MiscellaneousAuthor IndexSubject IndexThe List of Member Societies of the China Association for Science and Technology ( CAST )

章节摘录

Stream conductor insulator will be aging of different degrees after running for some time , since it can be affected by the surroundings. This situation is much common in the old streets of the towns and the old companies. In recent years , the number of fire caused by it is increasing. In recent years , researches on stream conductor insulator are more and more popular at home and abroad. Their results are continuously applied in the production of electric wires and in the process of using electric wires. Now , foreign research institutions invented a new way to test insulation , which named restored voltage method , aiming at the defects of testing inconvenience , inaccuracy and bad effects from electromagnetic field. In China , SU Zhanpai and LI Changming from cable material research center in Harbin University of Science and Technology studied the effects of producing heat on the extrusion swelling ratio and the effects of the ratio on tile insulation. focusing on the extrusion swelling. What ' s more , they discovered several ways of reducing the extrusion swelling ratio to improve the capability of insulation of wires and cables.

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