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Titolo	Soft magnetic materials : selected, peer reviewed paper [i.e. papers] from 2011 International Conference on Soft Magnetic Materials (ICSMM 2011) on May 23-24, in Male, Maldives // edited by Tianbiao Zhang and Jerry Tian
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Collana	Advanced materials research, , 1022-6680 ; ; volume 298
Altri autori (Persone)	ZhangTianbiao TianJerry
Disciplina	620.1/1297
Soggetti	Magnetic materials Magnetism Ferrites (Magnetic materials) Composite materials - Magnetic properties
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographic references and indexes.
Nota di contenuto	Temperature Compensation of RLG's Bias Based on LS-SVM / X.W. Long -- A New Model of Describing the Band Gap Bowing of III Nitride Alloys / J.X. Zhang -- The Factors Influencing the Band Gap Bowing of III Nitride Alloys / J.X. Zhang -- Application of the Intelligent Sensor in Yarn Quality Online Detection / G.Y. Yang -- Dielectric Relaxation Properties in Colossal Dielectric Constant Material Sr0.9Ba0.1Ti0.9Ru0.1O3 / J.M. Liu -- The Transition from Normal Ferroelectric to Relaxor Ferroelectric and Evidences of Polar Nanoregions Combination in Sr1-xPbxTiO3 / J.M. Liu -- The Application of Intelligent Laser Sensor on Yarn Quality Inspection / G.Y. Yang -- A Novel Long-Life Air Working Electro-Active Actuator Based on Cellulose and Polyurethane Blend / Z. J. Cai -- Study on the Characterization and Bending Performance of Electro-Active Actuator Based on Cellulose and Poly(3-Hydroxybutyrate) / Z.J. Cai -- Study on Structure Properties of Pyridine Ionic Liquids of Different Acid-Based Chain Lengths / D.Q. Chu -- Novel DNA Electrochemical Biosensor Using Anthraquinone-2-Sulfonic

Acid Sodium Salt as Hybridization Indicator / Q.Y. Zhang -- Intelligent Detection of Yarn Supply Tension during Flat Knitting Process / K. Yang -- Research on FBG in 3-D Braided Composite Structure Health Monitoring / Y.X. Ma -- The Influences of Material and Structure on the UV Protection of Summer Fabrics / Y. Zhang -- DNA Electrochemical Biosensor Based on Au Nanoparticles Self-Assembled Au Electrode / G. P. Chen -- DNA Biosensors Based on Layer-by-Layer Self-Assembled Multilayer Films of Carbon Nanotubes and Gold Nanoparticles / G.P. Chen -- The Research of Sphygmus Sensor Based on FBG in Smart Clothing / M. Ma -- The Preparation of a Novel Composite Film Based on Polyoxometalate for Visible Light Photocatalysis / Y. Liu -- Gas-Sensitive Behavior Based on Charge Transfer Processes of a Novel Polyoxometalate (POM)/TiO<sub>2</sub>/SiO<sub>2</sub> Composite Film / Y. Liu -- Development of Blended Yarns of Slenderized Wool and Mercerized Cotton / X.M. Jiang -- Application of FXL Series High-Speed Gilling Machine on Flax Short Spinning / Y.P. Ji -- Continuous Processing Technology of Wool Slenderizing Integrated with Biologic Enzyme Modification / X.M. Jiang -- Preparation of Nicotinamide Adenine Dinucleotide Functionalized Multi-Walled Carbon Nanotube and its Application to Dehydrogenase Biosensor / S.I. Suye -- DNA Electrochemical Biosensor Based on Chitosan and Gold Nanoparticles Using Methylene Blue as Electrochemical Indicator / C. Zhou -- DNA Electrochemical Biosensor Based on Chitosan and Core-Shell Au@SiO<sub>2</sub> Nanoparticles / A.C. Zhang -- Analysis on the Application of Ceramic Materials in Package -- The Application of Ceramic Bottle in the Package of Jinjiu / B.Y. Jin -- Manganese Dioxide Nano-Crystal as Catalyst to Remove Formaldehyde / H. Zhang -- Sensing Textile Fibers by THz Time-Domain Spectroscopy / Z. Tian -- Converse Magnetolectric Coefficient of Terfenol-D/PZT/Terfenol-D Laminated Magnetolectric Composite / W.M. Huang -- Synthetic Technology and Performance of a Novel Fatty Alcohol Polyoxyethylene Carboxylate Surfactants / Y. Zhou -- Effect of Binder Materials on Magnetic Properties of Amorphous Fe<sub>78</sub>Si<sub>9</sub>B<sub>13</sub> Powder Core / M. Yu -- Research on Preparation and Properties of Fe-Si-Al Soft Magnetic Composites / F.Z. Lian -- A Novel Model for Predicting Iron Losses of Electrical Steels Fed by PWM Inverter / A.P. Yan -- The Estimation for Position and Velocity of Moving Ball from Single Linear Array Image / G.J. Wen -- Synthesis, Characterization and Photocatalytic Property of Magnetic Titania Hollow Sphere Composite / H. Zhang -- The Equivalent Proving of Two Typical Vector Composing PM Circuits and their Characteristic Analysis / J.W. Huang -- The Surface Weak Magnetic Signals of Low Carbon Steel under Cyclic Loads / W.M. Zhang -- Effect of Hot-Rolled Microstructure on the Recrystallization Texture of Cold-Rolled Non-Oriented Electrical Steel / Y.M. Li -- Effect of Mineralizer on the Hydrothermal Synthesis of Bi<sub>0.5</sub>Na<sub>0.5</sub>TiO<sub>3</sub> Lead-Free Piezoelectric Crystals / C. Wang -- Mechanical Alloying for Fabrication of Fe<sub>50</sub>Ni<sub>30</sub>B<sub>20</sub> Amorphous Alloys Powder / Q. Li -- The Design and Simulation of a Switch Reluctance Motor for the Transmission Auxiliary Start up and Brake / P. Cai -- Application of Attapulgitte Clay Mineral Modified by Flame Retarder in Green Building Materials / J.N. Chen -- Stable Antiferromagnetism of Orthorhombic BiCrO<sub>3</sub> under Pressure: a Theoretical Study / Y.J. Zhao -- Characterization of TiO<sub>2</sub> Film Prepared by Sol-Gel Method Using Ti(OC<sub>4</sub>H<sub>9</sub>)<sub>4</sub> / W.J. Zhang -- Characterization of Porous TiO<sub>2</sub> Films Prepared Using PEG of Different Molecular Weight / W.J. Zhang -- The Logarithmic Amplifier with I/O Characteristic Approaching Horizontal Line / G.H. Liu -- The Analysis of Aluminum Alloy Microstructure Changes in Strong Alternating Magnetic Field / Y. M. Fu -- Analysis on Torsional Vibration Characteristics of Steam

Turbine Generator Shafts / D. Jiang -- Simple Synthesis of Micrometer Fe<sub>3</sub>O<sub>4</sub> Particles with Controlled Magnetic Behaviors / Y.Y. Sun -- Three-Dimensional Automatic Measurements System for RFID Magnetic Field / P.J. Wu -- Modeling and Simulation of the Membrane-Type Actuator Based on E-ACE / L.H. Zhu.

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Sommario/riassunto

The objective of this special collection was to provide a forum for researchers, educators, engineers and government officials, involved in the general areas of soft magnetic materials, soft ferrites, powder cores, composite materials, thin films, metamaterials, magnetic measurements and instrumentation, to disseminate their latest research results and to exchange views on the future research directions of these fields. Review from Book News Inc.: Researchers, educators, engineers, and government officials trade views and latest results regarding soft magnetic materials, soft ferrites, power co

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