

1. Record Nr.	UNINA9910810748603321
Titolo	Smart materials and intelligent systems : selected, peer reviewed papers from the 2011 International Conference on Smart Materials and Intelligent Systems (SMIS 2011), December 23-25, 2011, Chongqing, China / edited by Shaobo Zhong and Xilong Qu
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : Trans Tech Publications, , 2012 ©2012
ISBN	3-03813-788-X
Descrizione fisica	1 online resource (505 p.)
Collana	Advanced Materials Research, , 1022-6680 ; ; Volume 442
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Disciplina	620.11
Soggetti	Smart materials Artificial intelligence Intelligent agents (Computer software) Conference papers and proceedings.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Smart Materials and Intelligent Systems, SMIS2011; Preface, Committees and Reviewers; Table of Contents; Chapter 1: Multifunctional Materials; Facile Synthesis of LnPO ₄ : Tb (Ln = Ce, Gd) Green Emission Phosphors at Specific Temperature (80 or 680°); Ionic Liquid-Based Luminescent Gd ₂ SiO ₅ : Tb Submicro-Meter Phosphors; Low-Density InAs Quantum Dots Growth by Molecular Beam Epitaxy; Improved Resistivity of GaN with Partially Mg-Doped Grown on Si(111) Substrates by MOCVD; On Preparation of High Permeability Mn-Zn Ferrite; Growth and High Pressure Investigation of (C ₆₀) _n @SWNT Effect of Sintering Temperature on Electrical Properties of ZnO Varistor CeramicsApplications of Nanotechnology in Green Energy Manufacturing; Effect of Conservation Cultivation on Accumulation and Distribution of Soil Organic Carbon in Paddy Fields Located in Southwest China; China's Chemical Industry Materials Based on the Content and Security Planning Research; Study of an Inorganic Ion

Exchanger Mg₂Ti_{1.25}(PO₄)₃; Synthesis of Li_{0.6}Zn_{1.2}PO₄ and its Selectivity to Li⁺ Exchange; Study of Building Energy-Saving Based on TRIZ

Dynamic Simulation of the Boron Isotopes Separation by Chemical Exchange Method; Teaching Reform of General Chemistry in Independent College; Evaluation on Biocompatibility of Materials of Goose-Head Nail Steel Plates; Investigation of Promoting Professional Practical Ability of Undergraduate Students in Materials Majors; A Nano-SiO₂ Form-Stable Phase Change Material for Building Thermal Energy Conservation; UI Analysis and Style Design; Application Research of Computer Technology in the Decision Making of China's Supermarket Logistics Centers; Chapter 2: Devices and Integrated Systems

Effect of Y₂O₃ on Room Resistivity of Honeycomb Ceramics; Engineering Rules-Based Orthogonal and Variable-Steps Pipe Routing Algorithm for Aero-Engines; Adaptive hp-Finite Element Method for Electromagnetic Field Logging Problems; Research on Mechanism for Virtuous Circle of Technological Import; Design of the High-Precision SPR System; The Multi-Component Jaulent-Miodek Hierarchy and its Multi-Component Integrable Coupling System with Two Arbitrary Functions; The Study on Component Composition Based on Extend UML 2 Component Diagrams; Comparison of Three Rainfall Products from Microwave Imagers during Development of Typhoon Ma-on

Sommario/riassunto

The aim of this special volume is to facilitate the exchange of information on the best practices for multifunctional materials, active materials, enabling technologies and integrated system design, intelligent systems and applications, etc. It provided an opportunity for engineers and scientists in academia, industry and government to address the most innovative research and developments, including technical challenges, social and economic issues, and to discuss their ideas and results in all aspects of Smart Materials and Intelligent Systems. Review from Book News Inc.: This collection of ar
