

1. Record Nr.	UNINA9910822645003321
Titolo	Advanced materials for sustainable development : selected, peer reviewed papers from the JSPS-DST Asia Academic Seminar 2009 (AAS2009), which was held in Yokohama, Japan from December 8 to 10, 2009 // edited by Atsushi Suzuki and G. Sundararajan
Pubbl/distr/stampa	Stafa-Zurich, Switzerland : , : Trans Tech Publications Ltd, , [2010] ©2010
ISBN	3-03813-405-8
Descrizione fisica	1 online resource (101 p.)
Collana	Advanced materials research, , 1022-6680 ; ; volume 117
Altri autori (Persone)	SuzukiAtsushi SundararajanG
Disciplina	620.11
Soggetti	Materials science Sustainable development
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 and indexes.
Nota di contenuto	Advanced Materials for Sustainable Development; Preface; Table of Contents; Materials, Humankind and Peace; Fabrication and Applications of Silver Sulphide Based Ion Sensors; A Fundamental Investigation of Electrochemical Preparation of Battery Grade Nickel Hydroxide; Application of Electroless-Plated Magnetic Coating to Reduce Core Loss of Electrical Steel; Deposition of Titania Nanoparticles on the Surface of Acid Treated Multiwalled Carbon Nanotubes; Simple Template Assisted Synthesis of ZnO Nanowires and their Photoluminescence Property Microstructure and Corrosion Behavior of Cast A356 and Wrought AA6061 Aluminium Alloy WeldsPitting Enhanced Fatigue in 7075 Aluminium Alloy; Structure-Property Correlation of Cryotreated AISI D2 Steel; Surfactant-Mediated Epitaxial Growth of Metallic Thin Films; Studies on Development of MgB2 Superconductor with Improved In-Field Critical Current Density; Electrical and Structural Properties of ZnO/Ag Multilayers Deposited by Magnetron Sputtering for Energy-Efficient Windows; Magnetic Properties of Chemically Synthesized (La1-xEux)0.67Ca0.33MnO3 Nanoplates

Application of Extended Permeability to a Thick Palladium Membrane Structural Characterization of Nonionic Surfactant Reverse Micelles in Diglycerol Monolaurate/Squalene System; Iodide Ion Sensor for Indirect Determination of As (III) in Water; Keywords Index; Authors Index

Sommario/riassunto

The purpose of this special volume was to provide young scientists from Asian countries with the opportunity of exchanging information on scientific research. It covers recent progress, achievements and innovations made in the field of advanced materials research and technology for a sustainable future world; especially in India, Japan and other Asian countries. The selected papers include experimental studies of structure, electrical and magnetic properties, thermodynamic and electrochemical properties, absorption, luminescence, permeability and self-assembly in systems involving steel and al
