1. Record Nr. UNINA9910465292503321

Titolo	Advanced materials research QiR 12 : selected, peer reviewed papers from the 12th International Conference on Quality in Research (QiR 2011) 4-7 July 2011, Bali, Indonesia / / edited by Bondan Tiara Sofyan
Pubbl/distr/stampa	Durnten-Zurich : , : TTP, , [2011] ©2011
ISBN	3-03813-616-6
Descrizione fisica	1 online resource (168 p.)
Collana	Advanced materials research, , 1022-6680 ; ; volume 277
Altri autori (Persone)	SofyanBondan Tiara
Disciplina	620.11
Soggetti	Materials - Research Materials science Electronic books.
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 Research QiR 12; Editorial Note; Table of Contents; Electrical Properties Optimization of Ba0.9Sr0.1TiO3 Thin Films Deposited by Sol-Gel; Slowly Relaxing Structural Defects of Zinc Films with Excited States Induced by Ion Recombination Processes; Al-Si/SiC Metal Matrix Composites Produced by Spontaneous Infiltration; Development of Steel Wire Rope - Reinforced Aluminium Composite for Armour Material Using the Squeeze Casting Process; Mechanical Properties Evaluation of Woven Coir and Kevlar Reinforced Epoxy Composites Electroless Deposition of Metal Oxide on SiC Particles Reinforced for Producing Al-Si /SiC Metal Matrix CompositesPrecipitates in Biomedical Co-Cr-Mo-C-Si-Mn Alloys; Development and Characterization of Bovine Hydroxyapatite Porous Bone Graft for Biomedical Applications; The Effects of Plates Position in Vertical Casting Producing Thin Wall Ductile Iron; Analytical and Experimental Models of Porosity Formation of Duralumin Cast in Vacuum Casting System; Current-Voltage Characteristics of Side-Gated Silicon Nanowire Transistor Fabricated by AFM Lithography Nanocrystallinity Enhancement of TiO2 Nanotubes by Post-Hydrothermal TreatmentLocal Structure and Magnetic Properties of

FeMnAl Nanocrystalline and Amorphous Alloys; Wettability, Electrical and Mechanical Properties of 99.3Sn-0.7Cu/Si3N4 Novel Lead-Free Nanocomposite Solder; Synthesis and Characterization of Novel Polyurethanes Based on N,N'-1,2-Ethanediylbis-(4-Hydroxy-Pentanamide) and 4-Hydroxy-N-(2-Hydroxyethyl)-Pentanamide; Determination of Copper Dissolution Activation Energy in Concentrated Hydrogen Peroxide
Analysis of the Fe-Ti and Mg-Ti-Fe Alloys Prepared by High Energy Ball Milling and their Hydrogen CapacityStudy of the Electrical Conductivity of Oil Palm Fiber Carbon; Neural Networks with Radial Basis Function and NARX Structure for Material Lifetime Assessment Application; Preparation of Porous Ceramic with Controllable Additive and Firing Temperature; Keywords Index; Authors Index

Sommario/riassunto

The development of new engineering materials and technologies continues at a rapid pace. However, the application and dissemination of many of these materials and technologies is especially limited with regard to their incorporation into integrated design in urban eco-technologies, their market perspectives and their timely contribution to the existing and future requirements of mankind. The topics covered in this volume include: nanomaterials, materials for energy, metals, polymers, ceramics, composites, biomaterials, thin films and materials processing. The work is sure to have a stimulating