

1. Record Nr.	UNINA9910825417403321
Titolo	Materials science and technology : selected, peer reviewed papers from the 2014 2nd International Conference on Advances in Materials Science and Engineering (AMSE 2014), October 1-2, 2014, Dubai, UAE / / edited by Ping He and Jongee Park
Pubbl/distr/stampa	Zurich, Switzerland : , : Trans Tech Publications, , 2015 Enfield, New Hampshire : , : Trans Tech Publications, , [date of distribution not identified] ©2015
ISBN	3-03826-731-7
Descrizione fisica	1 online resource (232 p.)
Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 1064
Disciplina	620
Soggetti	Engineering Materials - Research Materials science
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 index.
Nota di contenuto	Materials Science and Technology; Preface and Organizing Committee; Table of Contents; Chapter 1: Materials Science and Technology; Deterioration of Mortar Composites in Acidic Environment; Evaluation of Friction Coefficient by Ring Compression of Magnesium Alloys; Preservation of Archaeological Leather by Reinforcement with Styrene Butadiene Rubber; Amine-Functionalized Graphene for Natural Gas Sweetening; High Strength and Ductility in Multi-Directional Forged Wrought Aluminum Alloys Effect of Sintering Time on the Density, Porosity Content and Microstructure of Copper - 1 wt. % Silicon Carbide Composites Investigation of Non-Monotonic Portions on the Temperature Dependences of High-Temperature Metal Melts' Physical Properties; Non-Destructive Testing for the Evaluation of Pozzolanic Mortar Reinforced to Corrosion; The Abnormal Grain Growth of P/M Nickel-Base Superalloy: Strain Storage and CSL Boundaries; Main Clay Minerals and their Microscopic Morphological Characteristics in

Zhangcun Illite Ores

High-Temperature Synthesis of Composite Material from Al-SiO₂

System Components The Synthesis of TiC Powders by Carbothermal

Reduction Method in Vacuum; Investigation on the Continuous

Microwave Synthesis of Nano Titanium Carbide Powder; Oxidation of

Cyclohexene over Mesoporous Silica Pillared Clay Incorporated with

Heteropoly Acid Prepared by Sol Gel Method; 2D Woven Reinforcements

of Natural Fibers; Effect of the Nature of the Layer of Conductive

Polymer Composite on the Effectiveness of a Multi-Layer

Electromagnetic Shielding

Synthesis of a Novel Structure Carbon Nanocoils and their Application

in Photo Diode Devices Shrinkage Behavior of Composite Geopolymer

Mortar Cured at Different Relative Humidities; Chapter 2: Applied

Mechanics; Vibromechanic Way to Remove Residual Stresses; Fatigue

Life Prediction of Composite Laminates Based on Progressive Damage

Analysis; Research on Calculation of Equivalent Damping Ratio of

Electrical Transmission Tower-Line System with Viscoelastic Dampers;

The Impact of Pre-Heating on Pressure Behavior in Tapered Cylindrical

Die in Pultrusion of Large-Sized Composite Rods

Chapter 3: Materials Processing and Manufacturing, Coating

Engineering Influence of Stacking Fault Energy on the Grain Size of FCC

Metals Fabricated by Accumulative Roll Bonding Process; Blast-Hole

Cuttings Grindability Relationship with Silica Content and Bit Wear Rate;

Surface Modification of Broaches from the Powder High Speed Steels

Applied to Processing of Aviation Products from Heat-Resistant Alloys;

High-Strength Ceramic Cutting Tools with Multipurpose Coatings for

Highly Effective Processing of Tempered Steel; Options for Forming of

Nanostructured Surface Coatings

Technological Features of Obtaining of Nanostructured Coatings on

TiNi Base by Magnetron Sputtering

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2nd

International Conference on Advances in Materials Science and

Engineering (AMSE 2014), October 1-2, 2014, Dubai, UAE. The 37

papers are grouped as follows: Chapter 1: Materials Science and

Technology; Chapter 2: Applied Mechanics; Chapter 3: Materials

Processing and Manufacturing, Coating Engineering; Chapter 4:

Advanced Materials and Manufacturing Design, Modelling, Simulation

Technologies Collection of selected, peer reviewed papers from the

2014 2nd International Conference on Advances in Materials Science

and Engineering (AMS)
