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Titolo	Modern technologies in materials, mechanics and intelligent systems : selected, peer reviewed papers from the 2014 4th International Conference on Intelligent System and Applied Material (GSAM 2014), August 23-24, 2014, Taiyuan, China / / edited by X. Y. Huang [and three others]
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volumes 1049-1050
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Lingua di pubblicazione	Inglese
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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	Modern Technologies in Materials, Mechanics and Intelligent Systems; Preface; Table of Contents; Chapter 1: Advanced Material Science and Technologies; Enhanced Coupling Effect between Plasmonic and Dielectric Nanocylinders; Interference Lithography Patterned Nanogratings in LiNbO3 Fabricated by Dry Etching; Dense Nanorods for Enhanced Sensing of Complex Mixed Solution; Manipulating the Profile of Nanostars; Improving the Topography of Sample Surface by Controlling Redeposition Effects; Research on Criterion and Prediction of Surface Defects in Alloy Steel Casting Slab Research on Preventing Copper-Brittleness Process for Hot Rolling Copper-Containing of Atmospheric Corrosion-Resisting Steel Used in Vehicles Effect of Pulse Electrodeposition Parameters on Microhardness of Ni-ZrO2-CeO2 Nanocomposite Coating; Influence of Asymmetric Hot Rolling on Microstructures of Vessel Steel; Degradation of Carcinogenic Hydroquinone in Coal Gasification Wastewater by Using Anaerobic Shaker Test; Sulfur Dioxide Was Carried out by Activated Carbon Adsorption in Combination with Microwave Desorption in Scene

The Comparison and Analysis of the Fuel Extracted Chlorine Detection Methods in Refuse Incinerator Studies on Mechanical Properties and Optimization Model of PI/SiO₂ Nanocomposite Based on Materials Studio; Research of Ultrasonic Horn Based on Composites Machining; Research on Computer Simulation in Titanium Dioxide Photocatalytic Experiment; Effects of Oxygen on Cutting Process in Machining Ti6Al4V; Natural Aging Mechanics Characteristics on Fiber Reinforced High Altitude Airship Envelope Composite
 Different Shape Notches Effects on Tearing Del-Zone for Stratospheric Airship Envelope Material Study on Crack Tearing Propagation of High Altitude Airship Envelope Composite Material; Effect of Controlling of Different Crystallography Form of Hematite on the Oxidation of Phenol by Fenton-Like Reagent; Influence of Nitrogen Partial Pressure on the Microstructure and Properties of TiN Coatings; Numerical Simulation of Two Phase Change Materials Melting Process; The Influence of Coal Adsorbing Methane and Carbon Dioxide on Gas Outburst; Study on the Sealing Property of Non-Asbestos Fiber Gasket
 Research on Iron-Containing Magnetic Ionic Liquids in Extraction-Deash of Coal Direct Liquefaction Residues Using Ultrasonic Oscillation Studies on Poplar Veneer Dyeing with Reactive Yellow Dyes; Chain Structure and Dynamic Mechanical Property of the Vinylidene fluoride and Chlorotrifluoroethylene Copolymers; Synthesis and Performances of Water-Soluble Phenolic Resin; Synthesis and Characterization of Bagasse Xylan Chlorosulfonate from the Chlorosulfonic Acid/Pyridine Method; Synthesis of Block Terpolymer PS-PDMAEMA-PMMA via ATRP and its Self-Assembly in Selective Solvents
 Separation of DMMP/Water Vapor with PDMS/Silica Membranes for the Sample Inlet of Ion Mobility Spectrometers

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 4th International Conference on Intelligent System and Applied Material (GSAM 2014), August 23-24, 2014, Taiyuan, China. The 462 papers are grouped as follows: Chapter 1: Advanced Material Science and Technologies, Chapter 2: Building Materials, Civil Engineering, Architecture and Construction Technologies, Chapter 3: Biomedical Engineering, Chapter 4: Energy and Power Systems, Electrical and Electronic Engineering, Chapter 5: Designing of Machines, Manufacturing Technologies, Automation and Control in Mechanical Engineering, Chapter
