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Titolo	Micro nano devices, structure and computing systems III : selected, peer reviewed papers from the 2014 3rd International Conference on Micro Nano Devices, Structure and Computing Systems (MNDSCS 2014), March 1-2, 2014, Singapore // edited by Zheng Zhang and Dehuai Zeng
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 918
Disciplina	621.3817
Soggetti	Microelectronics Nanostructures Computer systems
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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	Micro Nano Devices, Structure and Computing Systems III; Preface and Organizing Committee; Table of Contents; Chapter 1: Material Science and Applications; Photoanode of Photoelectrochemical Biofuel Cell Sensitized by Magnesium Tetraphenylporphyrin; Synthesis of Straight Rod-Shaped Mesoporous Silica Templated with Polyvinylpyrrolidone and P123 for Controlled Ibuprofen Release; Cetyltrimethylammonium Bromide-Assisted Hydrothermal Synthesis of Mixed-Phase TiO <sub>2</sub> Nanorod and its Photocatalytic Activity Hydrothermal Synthesis and Photocatalytic Activity of Mesoporous TiO <sub>2</sub> with High Surface Area and Different Pore Size The Estimation of Thermal Conductivity for Alumina-Epoxy Composite Material with High Filling Volume Fraction; Study of N-TiO <sub>2</sub> Photocatalysts and their Catalytic Activities under Simulated Sunlight; Study on Biomaterials of Anti-Gastric Trametenolic Acid B Semi-Synthetic Derivatives; The Formation of Cooper Pairs and their Role in Nondissipative Diamagnetic Currents in the Micro- and Macro-Scopic Sized Graphene Materials; Towards High-Temperature Superconductivity

Optical Properties of Black Silicon Using the Combination Method of KOH and Gold-Assisted HF Etching Formula Design of Corrosion-Resistant Concrete under Sulfate-Chloride Compound Attack; Development and Application of Nanotechnology in Sports; Effects of Nitrogen Doping on Nanocrystalline Diamond/p-Type Si toward Solar Cell Applications; Chapter 2: Mechanical Engineering; Support Vehicles Allocation Method Set Based on Feature; Applying of Piston Mechanism Design Used in the Wavelength Electrical Generating of Ocean for Fishing Communities  
Design of Self-Alignment Devices with Fluidic Self-Assembly for Flip Chip Packages in Batch Processing Application Topsis Analysis on Aviation Anti-Submarine Aircraft Performance Evaluation; Systematic Planning and Design of a System to Facilitate the Adjustment of Grain Transport Vanes in a Combine Harvester; Finite Element Analysis on the Structure Strength of Air Cushion Vehicle; Chinese Electric Vehicles (EVs) and Internal Combustion Engine Vehicles (ICEVs) Prediction Based on the Double Species Model  
An Experimental Study of Low-Frequency Vibration-Based Electromagnetic Energy Harvesters Used while Walking Training Mode of China Professional Golf Player; Life Cycle Assessment of Battery Electric Vehicles (BEVs) Using eBlance; Chapter 3: Power, Energy and Environment Engineering; The Optimization Methods Based on Big Data Technologies of Power System Protection; Model Predictions for New Iron Ore Sintering Process Technology Based on Biomass and Gaseous Fuels; Bioconversion of Water Hyacinth to Ethanol by Using Cellulase from *Trichoderma atroviride* AD-130  
Study on Measures for Solving Accident of Water Distribution System

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 3rd International Conference on Micro Nano Devices, Structure and Computing Systems (MNDSCS 2014), March 1-2, 2014, Singapore. The 58 papers are grouped as follows: Chapter 1: Material Science and Applications, Chapter 2: Mechanical Engineering, Chapter 3: Power, Energy and Environment Engineering, Chapter 4: Electronics, Computer Engineering and Information Technology

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