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Collana	Key engineering materials, , 1013-9826 ; ; v. 495
Altri autori (Persone)	HristoforouE VlachosD. S
Disciplina	681.2
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Materials and Applications for Sensors and Transducers; Preface, Organizers and Committees; Table of Contents; Study of the early Stage of Deposition Process for Electrodeposited Ni <sub>100</sub> -XFeX Thin Films; Electrical Permittivity of Polyvinylidene Fluoride Nanocomposites Filled with Organoclay and Graphite Nanoplatelets: Compared and Contrasted; Sensing Element Made of Multi-Wall Carbon Nanotube Network for Organic Vapor Detection; Effect of Substrate Temperature on Microstructural Characteristics of Thermal Sprayed Superalloys Silver-Rutile UV Sensor Fabricated on Thermally Oxidized Titanium Foil Marketing Dynamic Simulation Modelling in High Tech Laboratories; Metamaterial Sensor Based on WGM; Fabrication of Carbon Nanotube/Low Density Polyethylene Composites for Strain Sensing; Nanostructures of Water Molecules in Iteratively Filtered Water; Metrological Performances of Smart Structures Based on Bragg Grating Sensors; Cyclodextrin-Based Supramolecular Multilayer Assemblies for the Design of Biological Optical Sensors Using Tilted Fiber Bragg

## Gratings

Cyclodextrin-Based Supramolecular Multilayer Assemblies for the Design of Chemical Optical Sensors Using Tilted Fiber Bragg Gratings; Metrological Performances of Fiber Bragg Grating Sensors and Comparison with Electrical Strain Gauges; New Ti-Alloy with Negative and Zero Thermal Expansion Coefficients; Performance Optimization in Switched Reluctance Motor Drives; Magnetoelastic Viscosity Sensor for Lubricant Oil Condition Monitoring; Optical Electronic Nose Based on Fe (III) Complex of Porphyrins Films for Detection of Volatile Compounds; Detection of Formaldehyde Using Plasmonic Properties of Gold Nanoparticles; Improved Selectivity of Oxidized Multiwall Carbon Nanotube Network for Detection of Ethanol Vapor; Polymer Coated Microfabricated Interdigitated Electrodes Arrays for Gas Sensing Applications; Using the Own Flexibility of a Climbing Robot as a Double Force Sensor; Study and Application of Micrometric Alignment on the Prototype Girders of the CLIC Two-Beam Module; Oxhydroelectric Effect: Electricity from Water by Twin Electrodes; Experimental Evidence of a Neutron Flux Generation in a Plasma Discharge Electrolytic Cell; Growth, Structural and Mechanical Characterization and Reliability of Chemical Vapor Deposited Co and Co<sub>3</sub>O<sub>4</sub> Thin Films as Candidate Materials for Sensing Applications; Threshold Voltage and Sub-Threshold Slope Variation with Gate-Length in Al<sub>2</sub>O<sub>3</sub>/InAlAs/InGaAs Quantum Well (QW) FET's; Development of an Electrochemical Maltose Biosensor; Radiation Dosimeter Based on Metal-Oxide-Semiconductor Structures Containing Silicon Nanocrystals; Water Plasma Modes and Nuclear Transmutations on the Metallic Cathode of a Plasma Discharge Electrolytic Cell; SHM System Based on ANN for Aeronautical Applications; Qualitative and Quantitative Architecture Characterisation of Porous Materials

### Sommario/riassunto

ICMAST-2011 is an international interdisciplinary conference which covers research and development in the field of materials science; especially those materials which are used for sensors, actuators, and all kinds of transducers. ICMAS-2011 aims to bring together scientists, engineers and product designers in order to fill the gap between research and development. The topics covered by ICMAS-2011 include: new materials development, fabrication technology, sensing principles and mechanisms, actuators, optical devices, electrochemical devices, mass-sensitive devices, gas sensors, biosensors, a