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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Materials Science, Testing and Informatics VII; Preface, Committees and Sponsors; Table of Contents; Session I. - Materials and Technologies; Mechanical Properties of Iron Hollow Sphere Reinforced Metal Matrix Syntactic Foams; N-Alkyl Pyrrolidones for Plasticizing Polyurethane Elastomers; Prototype of a Human Spinal Disc for Medical Modeling; Investigation of the Effect of Deformation Stored Energy on the Allotropic Transformation Temperature; Welding Properties and Fatigue Resistance of S690QL High Strength Steels Quality Control Methods of Al <sub>2</sub> O <sub>3</sub> Based Ceramic Injection Molding Raw Materials Deposition of Nanostructure ZnO with Variable Morphology by Electrochemical and Hydrothermal Methods onto Nonwoven Materials; Low Cycle Fatigue Behavior of VVER-440 Reactor Pressure Vessel Steels at Isothermal Condition; The Effect of Thermomechanical Treatment on the Microstructure and the Mechanical Behavior of a Supersaturated Cu-Ag Alloy; Development of Cellulose-Reinforced Poly (Lactic Acid) (PLA) for Engineering Applications Styrene-Butadiene Rubber/Graphene Nanocomposites: Effect of Co-Milling with Cyclic Butylene-Terephthalate The Examination of the Cutting Capacity of Different Aluminium Alloys with Statistical Methods, Using Different Edge Material Non-Conventional (Wiper) Edge Geometry

Diamond Tools; Ceramic Reinforced Metal Matrix Nano and Micro-Composite Layers Produced by Combined Laser Melt Injection Technology and Thermochemical Surface Treatment; Degradation Behaviour of Zeolite Filled Polyurethanes under In Vitro Aging Process; Analysis of a NiTi Shape Memory Alloy  
Development of Ceramic Feedstock for Powder Injection Molding UHMWPE Modified Sodium Alginate; Surface Hardening of Austenitic Stainless Steel by Explosive Treatment; Comparing Two Examination Methods for Measuring Metal to Artery Ratio of Coronary Stents; Influence of Internal Leakage in Hydraulic Capsules on Dynamic Behavior of Hydraulic Gap Control System; Real-Time Test Environment for Hydraulic Gap Adjustment System in Hot Rolling Mill; In Situ Al<sub>3</sub>Nb Formation in Liquid Al by Nb Particle Addition; Effect of Equal Channel Angular Pressing on Different Face Center Cubic (FCC) Metals  
Influence of Sintering Time on Properties of Alumina-Based Ceramic Composite Role of the Physical Simulation for the Estimation of the Weldability of High Strength Steels and Aluminum Alloys; Behaviour of AlMg<sub>3</sub> Base Material and its Friction Stir Welded Joints under Cyclic Loading Conditions; Characteristics of Martensitic Transformations Induced by Uni-Axial Tensile Tests in a FeMnCr Steel; Necklace Formation during Dynamic Recrystallization of 5182 Aluminium Alloy under Isothermal Compression; Optimizing Steel-Making Secondary Metallurgy Slag at ISD DUNAFERR Zrt  
Adjusting the Flexibility of Fabric Reinforced Composite Laminates Using Experimental Design

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 9 th Hungarian Conference on Materials Science, October 13-15, 2013, Balatonkenese, Hungary. The 75 papers are grouped as follows: Session I. - Materials and Technologies; Session II. - Materials Testing; Session III. - Modelling

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