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Altri autori (Persone)	WangJing Tao
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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Advances in Nanomaterials and Plastic Deformation; Preface; Table of Contents; I. Processing; Rapid Prototyped Nanocrystalline Copper Parts by Jet Electrodeposition; Developing Metallic Glass Matrix Composites with In Situ Crystalline Spheres through the Mechanism of Liquid-Liquid Phase Decomposition in Miscibility Gap of the Multicomponent Immiscible Alloys; Studies of Annealing Process in Severely Cold Drawn Pearlitic Steel Wires; Bulk Nanocrystalline Cu Produced by High-Energy Ball Milling; Shearing Patterns of AZ31 Mg Alloy Processed by Equal-Channel Angular Pressing via Various Route A Comparison of Temperature-Dependent Compressive Deformation Features of Ultrafine-Grained Ti and Cu Produced by ECAPII. Microstructure Characterization; Microstructure and Mechanical Properties of Mg96Y3Zn1 Alloy Processed by Equal Channel Angular Pressing; Effects of Si/Al Molar Ratio on Morphology of Mullite Nanocomposite Synthesized from Kaolin; Microstructures and Properties of Ultrafine Grained Iron by Rolling; Texture Analysis of

Commercial Pure (Grade 3) Ti after Two-Step Severe Plastic Deformation; Microtexture Study of Warm-Rolled High Strength Interstitial-Free (IF) Steel Sheets
Solidification Structure Characteristics and Mechanical Properties of (Ag-Cu28)-25Sn Alloy Ribbons Prepared by Melt Spinning Method The Microstructural Studies of Ag/Ni20 Fibre Composites Processed by Severe Plastic Deformation; Deformation Processing and Mechanical Properties of Cu-10Cr-0.4Zr In Situ Composite Microwires; Microstructure and Mechanical Properties of Austempered Ultrahigh Carbon Steel 1.4%C; Microstructure and Mechanical Properties of CP-Ti Processed by 2 ECAP Passes Using a 90° Die at Room Temperature Mechanical Properties of Plain Carbon Steels with Ultrafine (+) MicrostructuresMicrostructure and Performance of Surface Nanostructure 316L Stainless Steel Induced by Wire-Brushing Deformation; III. Mechanical and other Properties; Mechanical Property of Duplex Stainless Steel with Nanostructured Layer by Surface Mechanical Attrition Treatment; Microstructure and Mechanical Properties of a 1.6C (pct) Ultra-Fine Grained Ultra-High Carbon Steel; Constitutive Model for Large Plastic Deformation of Nanocrystalline Materials
Effect of Load Direction on Tensile Yield Properties in Mg-3Al-Zn AlloyEffect of Grain Size Distribution on the Local Mechanical Behavior of Nanocrystalline Materials; Numerical and Experimental Investigation of Strain Inhomogeneity during Cyclic Channel Die Compression; Superelasticity and Shape Memory Behaviors of Ti-25 at. % Nb Alloy Processed by ECAP and Aging; Tensile Properties and Dislocation Strengthening of Commercial Pure Titanium Processed by Equal-Channel Angular Pressing at Liquid Nitrogen Temperature; Compression Superplasticity of Ultrahigh Carbon Steel in Electric Field Effects of ECAE and Aging on Phase Transformations and Superelasticity of a Ni-Rich TiNi SMA

Sommario/riassunto

The deformation-processing of advanced materials having ultrafine- or nano-structures, and therefore significantly improved properties, has developed into one of the most promising frontiers of materials science and technology. The present 35 peer-reviewed papers cover many aspects of Nanomaterials and Plastic Deformation and will provide a succinct introduction to the subject. Review from Book News Inc.: The session also served as the fourth symposium succeeding the serial symposia Ultrafine Grained and Nanostructured Materials, so those materials are particularly featured in the 35 selected