

1. Record Nr.	UNISA996213449503316
Titolo	Ultrafine Grained Materials II : proceedings of a symposium : held during the 2002 TMS Annual Meeting in Seattle, Washington, February 17-21, 2002 // edited by Y. T. Zhu, [and others]
Pubbl/distr/stampa	Warrendale, Pennsylvania : , : The Minerals, Metals & Society Society, , 2002 ©2002
ISBN	1-118-80448-1 1-118-80443-0 1-118-80453-8
Descrizione fisica	1 online resource (702 p.)
Disciplina	669.94
Soggetti	Metallography Nanostructured materials Grain boundaries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Cover; Title Page; Copyright Page; TABLE OF CONTENTS; Preface; I. Microstructural Evolution; High Strain Monotonie Deformation-Structure and Strength; Influence of Processing Route on Microstructure and Grain Boundary Development During Equal-Channel Angular Pressing of Pure Aluminum; Equal Channel Angular Pressing of Steels (BCC), Al Alloys (FCC) and Pure Titanium (HCP); The Effect of Straig Per Pass on the Microstructure Developed in Aluminum Processed by Equal Channel Angular Extrusion; Microstructural Evolution of Titanium Under Twist Extrusion Nanostructure Formation and Carbides Dissolution in Rail Steel Deformed by High Pressure TorsionGrain Refinement and Texture Development in Asymmetrically Rolled Aluminum Alloy Sheets; Ultrafine Grain Formation During Equal Channel Angular Extrusion in an Al-Mg-Sc Alloy; Formation of Nanocrystalline Structure in a Ni-20%Cr Alloy; Formation of Ultrafine Grains During Intense Plastic Straining in an Al-Li Alloy at 400°C; Mechanisms of Formation of Submicron Grain

Structures During Severe Deformation; Grain Refining Mechanisms of Ti During Equal Channel Angular Pressing  
Microstructure Evolution in Nanocrystal Formation During Ball Milling  
Formation of Nanocrystalline Structure in Two-Phase Titanium Alloys by Warm Severe Plastic Deformation; Evolution of Microstructure and Mechanical Behavior of Titanium During Warm Multiple Deformation; Effect of Pressure on the Final Grain Size After High Pressure Torsion; Heterogeneous Microstructural Evolution and Reactions During Repeated Intense Deformation; Hardness and Microstructure Changes in Severely Deformed and Recrystallized Tantalum; II. Processing of Ultrafine-Grained Materials  
Homogeneity in Ultrafine-Grained Aluminum Prepared by Equal-Channel Angular Pressing  
Processing of an Aluminum-6061 Metal Matrix Composite by Equal-Channel Angular Pressing; Grain Refinement and Phase Transformations in Al and Fe Based Alloys During Severe Plastic Deformation; Phase Transformations in Ultrafine Grained Fe and Fe-Mn Alloys; Ultrafine-Grained Tungsten Produced by SPD Techniques; Metastable Nanostructured Alloys Processed by Severe Plastic Deformation; Synthesis of Nd<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>/Al<sub>2</sub>O<sub>3</sub> Nanocomposites by Spark-Plasma-Sintering and High-Energy Ball-Milling  
Enhanced Formability of Superplastic AlMgZr Alloys Made by Particulate Routes

---

Sommario/riassunto

Ultrafine Grained Materials II

---