

| | |
|-------------------------|---|
| 1. Record Nr. | UNINA9910810749003321 |
| Titolo | Polymer composites and polymer testing : selected, peer reviewed papers from the 2012 International Symposium on Polymer Composites and Polymer Testing (ISPCPT 2012), March 23-25, 2012, Hangzhou, Zhejiang, China // edited by Hongkui Mao [and four others] |
| Pubbl/distr/stampa | Durnten-Zurich, Switzerland : , : Trans Tech Publications Ltd, , [2012] ©2012 |
| ISBN | 1-62870-902-2 3-03813-815-0 |
| Descrizione fisica | 1 online resource (510 p.) |
| Collana | Advanced materials research, , 1022-6680 ; ; volume 499 |
| Altri autori (Persone) | MaoHongkui |
| Disciplina | 620.192 |
| Soggetti | Polymeric composites Polymers - Testing |
| 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 | Polymer Composites and Polymer Testing; Preface and Committee; Table of Contents; Chapter 1: Polymer Composites and Applied Materials; A Magnetic Array Fabricated by a Novel Process Constructed with Photosensitive Polyimide-Ferrite Nanocomposite; Effect of Liquid Structural Transition on the Morphology of Solid/Liquid Interface during the Unsteady-State Unidirectional Solidification; Effect of Particle Size of Natural Graphite on Methyl Blue Sorption Behavior of Expanded Graphite; Expansion Mechanism of Expandable Graphite Formed by Natural Graphite with Different Particle Size Finite Element Implementations to Predict the Failure of Composite Laminates Under Uniaxial Tension Improved Physical and Electrochemical Hydrogen Storage Kinetics of the Mg ₂₀ Ni ₁₀ -XM _x (M=Cu, Co; X=0, 4) Alloys by Melt Spinning; Influence of Bi ₂ O ₃ on the Structure and Magnetic Properties of Barium Ferrite Powders Materials; Investigation about Synthesis of Carbon Nanotubes with Various Structures Governed by Temperature and Relevant Growth Mechanism; Investigation of Structure and Properties of PET Multifilament Irradiated with UV in Different Atmosphere |

Microstructure and Mechanical Properties of Mg-6Al-0.3Mn-0.9Y Alloy; Microstructure and Wear Resisting Property of 40Cr Steel Treated by Supersonic Particles Bombarding; Perfluoropolyether Modified Waterborne Shape Memory Polyurethane urea Ionomers for Potential Medical Implant Application; Photodecomposition of Methylene Blue by the S, Al Doped TiO₂ Mesoporous Materials; Preparation Mechanism of Electrostatic Self-Assembled Polyelectrolyte Film Using Quartz Crystal Microbalance; Self-Piercing Riveting Process Simulation of Joining Aluminium Alloy Sheets; Size Effect of Expandable Graphite Size-Dependent Young's Modulus of the FCC Metallic Films; Structure and Properties of Composite Films of Cellulose and Chitosan from Ionic Liquid; Study of the Preparation and Degradable Characteristics of CaCO₃-PE Film; Surface Properties of UHMWPE Fiber after Low Temperature Argon-Plasma Treatment; Synthesis and Characterization of Novel PCA-PEG-PCA Triblock Copolymer; Synthesis and Characterization of Polyesters Containing 5-Fluorouracil in the Main Chain; Synthesis of Poly(Urethane-Urea)s from Polycarbonate Macrodiols and IPDI with the Addition of Derivant of Propylene Carbonate

The Effect of Fatty Acid on Phase Behaviors of Tween 80/bmimPF₆/toluene Microemulsions; The Electrochemical Performance of Carboxymethyl Cellulose with Different DS as a Binding Material in Lithium Batteries; Chapter 2: Applied Mechanics and Manufacturing Technology; Design of Rupture Strength Based on Confidence Level of HK40 Steel; An Approach for Analysis of Bulged Profile and Thickness Distribution of Tube in Free Hydro-Bulging Process; Numerical Investigation of Air Flow Distribution in a Swirling Fluidized Bed; Approach of Selecting Profile Modifications Curves for Spur Gears; Preparation and Properties of a Custom-Designed Nickel-Based Amorphous Brazing Foil

Sommario/riassunto

These are the proceedings of the International Symposium on Polymer Composites and Polymer Testing (ISPCPT 2012), held on the 23rd to 25th March, 2012, in Hangzhou, Zhejiang, China. They cover topics related to Polymer Composites and Applied Materials, Applied Mechanics and Manufacturing.
