1. Record Nr. UNINA9910557205403321

Autore	Caillol Sylvain
Titolo	Natural Polymers and Biopolymers II
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 electronic resource (472 p.)
Soggetti	Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	BioPolymers could be either natural polymers – polymer naturally occurring in Nature, such as cellulose or starch…, or biobased polymers that are artificially synthesized from natural resources. Since the late 1990s, the polymer industry has faced two serious problems: global warming and anticipation of limitation to the access to fossil resources. One solution consists in the use of sustainable resources instead of fossil-based resources. Hence, biomass feedstocks are a promising resource and biopolymers are one of the most dynamic polymer area. Additionally, biodegradability is a special functionality conferred to a material, bio-based or not. Very recently, facing the awareness of the volumes of plastic wastes, biodegradable polymers are gaining increasing attention from the market and industrial community. This special issue of Molecules deals with the current scientific and industrial challenges of Natural and Biobased Polymers, through the access of new biobased monomers, improved thermo-mechanical properties, and by substitution of harmful substances. This themed issue can be considered as collection of highlights within the field of Natural Polymers and Biobased Polymers which clearly demonstrate the increased interest in this field. We hope that this will inspire researchers to further develop this area and thus contribute to futures more sustainable society.”

2. Record Nr. UNINA9910819838703321

Titolo	Nanocomposites and nanoporus materials Vlll (ISNNM8) : selected, peer reviewed papers from the 8th International Symposium on Nanocomposites and Nanoporous Materials (ISNNM8), February 22-24, 2007, Jeju, Korea / / edited by Chang Kyu Rhee
Pubbl/distr/stampa	Uetikon, Zurich : , : Trans Tech Publications Limited, , [2008] ©2008
ISBN	3-03813-196-2
Descrizione fisica	1 online resource (168 p.)
Collana	Diffusion and defect data - solid state data. Pt. B, Solid state phenomena, , 1012-0394 ; ; volume 135
Altri autori (Persone)	RheeChang Kyu
Disciplina	620.5
Soggetti	Nanostructured materials
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	Nanocomposites and Nanoporous Materials VIII; Committees; Preface; Table of Contents; Catalytic Combustion of Effluents from Methane-Based MCFC Device over Cordierite Supported Pd/La-Al2O3 Catalyst ; Low-Temperature Fabrication of Polycrystalline Yttrium Aluminum Garnet Powder via a Mechanochemical Solid Reaction of Nanocrystalline Yttria with Transition Alumina ; Formation of Hollow Zinc Oxide by Oxidation and Subsequent Thermal Treatment; Antifungal Effectiveness of Nanosilver Colloid against Rose Powdery Mildew in Greenhouses; Fabrication of Oriented TiO2-Based Nanotube Array Thin Films Formation of Lanthanum Hydroxide and Oxide via PrecipitationColloidal Crystal Templating of Two-Dimensional Ordered Macroporous SiCN Ceramics; Reflectometry Studies of Mesoporous Silica Thin Films; Conductive Property of Carbon-Nanotube Dispersed Nanocomposite Coatings for Steel; Preparation of Platinum-Ruthenium Nanoparticles on Graphite Nanofibers; Thermal Behaviors and Fracture Toughness of Polyurethane-Dispersed Difunctional Epoxy Resins ; Influence of Multiwalled Carbon Nanotube on Rheological Behavior of Mesophase Pitches Preparation and Characterization of AuNP/Al2O3 with Bimodal Nanoporous StructureThe Effect of Physicochemical Treatment on Pd

Dispersion of Carbon-Supported Pd Catalysts; The Effect of Si/Al Ratio on Selective Catalytic Reduction of NOx with NH3 over Pt/Al-SBA-15; Effect of Ball-Milling Method on the Formation of ODS Fe-14Cr-2Al-1Si-0.3Ta-1Y2O3 Powders; Nano-Sized Yttria Dispersed Ferritic Stainless Steels for SOFC Interconnect Applications; Methane Storage on Surface Modified Activated Carbons; Nickel Decoration on Multi-Walled Carbon Nanotubes Using Multi-Step Impregnation Method
Preparation and Characterization of Electrospun Carbon Nanofibers with Na2CO3/H3PO4 Activation Removal of Hexavalent Chromium on Chitosan-Deposited Activated Carbon; Oxidation of Sulfur Components in Diesel Fuel with Tert-Butyl Hydroperoxide Using Chromium Containing Catalysts ; Development and Application of Irradiation Technology in HANARO; Synthesis of Cu(In0.75Al0.25)Se2 Thin Films from Binary Selenides Powder Compacted Targets by Sputtering and Selenization ; A Passive Film Formed on Alloy 600 in High Temperature Aqueous Solution
Formation of Nano M2X Particles by a Tempering in High Cr Ferritic/Martensitic SteelEffect of Vanadium on Development of Acicular Ferrite Microstructure in Low Carbon Steel; Nucleation of Intragranular Ferrite on B1-Type Non-Metallic Inclusions ; Microstructure and Nano-Indentation Properties of Ion-Irradiated Fe-9wt%Cr Alloy; Synthesis and Characterization of NiFe2O4 Nanoparticles Synthesized by Levitational Gas Condensation (LGC) ; Corrosion Behavior of Ceramic Dispersion Strengthened High-Cr Stainless Steel; Brazing of Ti Using a Zr-Based Amorphous Filler
The Effect of Ag Diffusion Barrier on the Microstructure of a Titanium Dissimilar Joining

Sommario/riassunto

The recent utilization of nano-sized powders and porous materials has led to the expectation that it will lead to basic breakthrough solutions for prospective nanomaterial products offering high performance and multi-functionalism. For this reason, many industrial countries have financially supported nanostructured materials development and their use in technical innovation. This collection comprises 35 peer-reviewed papers. The strong international participation and the high quality of the presentations is a sure indication of the interest shown in the fields of nanocomposites, nano-catalysts

3.

Record Nr.	UNICAMPANIAVAN00091508
Autore	Fröhlich, Steffen
Titolo	Coulomb frames in the normal bundle of surfaces in euclidean spaces : topics from differential geometry and geometric analysis of surfaces / Steffen Fröhlich
Pubbl/distr/stampa	Berlin, : Springer, 2012
Titolo uniforme	Coulomb frames in the normal bundle of surfaces in euclidean spaces
Descrizione fisica	XIV, 117 p. ; 24 cm
Soggetti	30G20 - Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.) [MSC 2020] 35J15 - Second order elliptic equations [MSC 2020] 53A07 - Higher-dimensional and -codimensional surfaces in Euclidean and related n-space [MSC 2020] 53A10 - Minimal surfaces in differential geometry, surfaces with prescribed mean curvature [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia