

1. Record Nr.	UNINA9910812911903321
Titolo	Advanced research on biochemical materials and nanotechnology application : selected, peer reviewed papers from the 2012 International Conference on Biochemical Materials and Nanotechnology Application , December 22-23, 2012, Yichang, China // edited by Helen Zhang, David Jin and X.J. Zhao
Pubbl/distr/stampa	Zurich-Durnten, Switzerland : , : Trans Tech Publications Ltd, , [2013] ©2013
ISBN	3-03813-974-2
Descrizione fisica	1 online resource (214 p.)
Collana	Advanced materials research, , 1022-6680 ; ; volume 643
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Disciplina	620.11
Soggetti	Biochemical engineering 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 index.
Nota di contenuto	Advanced Research on Biochemical Materials and Nanotechnology Application; Preface and Committees; Table of Contents; Chapter 1: Bio-, Chemical, Food Materials, Material Engineering and Technology; Research on the Application of GSHP (Ground Source Heat Pump) Technology with Composite Properties of Biochemical Materials; The Warning Measurement System of Erythema Time with Ultra Violet Photodevice and Properties of Biological Filtration Materials; Synthesis and Photovoltaic Properties of Poly(p-phenylenevinylene) Derivatives Modified by Thiophene Derivatives Optimization of Formulations of 1% Abamectin Microcapsule Suspensions with Properties of Biochemical Materials Research on Pollution Control Technologies of Oil Spill in River Water with Properties of Biochemical Materials; The Application of Biological Materials on the Cruciate Ligament Reconstruction of Knee-Joint in Athletic Injury; A Label-Free Electrochemical Immunosensor for Carcinoembryonic Antigen Based on Graphene and Thionine; Corrosion Behavior of

Cu<sub>50</sub>Zr<sub>40</sub>Ti<sub>10</sub> Metallic Glass in HCl and NaCl

Thermal and Mechanical Property Research of Polyethylene Modified by Reactive Quaternary Ammonium Salt Simultaneous Determination of Lomefloxacin and Ciprofloxacin in Dairy Products by First-Derivative Synchronous Spectrofluorimetry; The Correlation between Blood Lead Level and T-Lymphocyte Subpopulation with Analysis of Biochemical Materials; Preparation of Squid Gelatin-Polysaccharide Scaffolds; Sequence Analysis of Potato  $\alpha$ -Amylase Gene amyA2; Study on the Luminescent Properties of Europium (III) Complex with 2, 3-Pyrazinedicarboxylic Acid

Study on Crystal Structure and Thermal Stability of Hexaaquanickel (II) Bis[4-amino-3-methyl-benzenesulfonate] The Application of Tissue Engineering Cartilage and Bracket Constructed Biomaterials for Athletic Injury; Synthesis of Spindle-Like Hollow Mesoporous Silicas with Tunable Wall Thickness; Low Temperature CO Oxidation over Cobalt Catalysts Supported on Mesoporous CeO<sub>2</sub>; Thermoresponsive Ion-Imprinted Hydrogels with Interpenetrating Network Structure for Removal of Heavy Metal Ions

Effect of Phosphates on Weight Gain, Thawing Loss and Cooking Yield of Frozen Pollock (*Gadus morhua*) Fillets Synthesis and Anti-Tumor Activity of Cyclodepsipeptides Paecilodepsipeptide A; Electrochemical Properties of LiFePO<sub>4</sub>/C Composite by Spray-Drying Method; Influence of pH on Electrochemical Performances of Iron Phosphate (FePO<sub>4</sub>·xH<sub>2</sub>O) Particles and LiFePO<sub>4</sub>/C Composites; The Thermodynamic Analysis of Ni<sub>1/2</sub>Mn<sub>1/2</sub>(OH)<sub>2</sub> Prepared by Hydroxide Co-Precipitation Method Effect of Polysaccharides from Fresh Persimmon (*Diospyros kaki*) Fruits and its Sulfated Derivates on the Immunomodulatory Activity of Mouse Peritoneal Macrophage Cells

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Sommario/riassunto

The volume contains selected, peer reviewed papers from the 2012 International Conference on Biochemical Materials and Nanotechnology Application (BMNA2012), December 22-23, 2012, Yichang, China. The papers are grouped as follows: Chapter 1: Bio-, Chemical, Food Materials, Material Engineering and Technology; Chapter 2: Nanomaterials and Nanotechnology. Review from Book News Inc.: The 45 papers in this collection consider such topics as applying biological materials in the cruciate ligaments reconstruction of the knee joint in athletic injury, the correlation between blood lead level and T-lympho

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