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Titolo	Recent highlights in advanced functional materials and biomedical research : selected, peer reviewed papers from the 8th International Conference on Molecular Imprinting (MIP 2014), September 18-21, 2014, Zhenjiang, China / / edited by Xinhua Yuan
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Collana	Key Engineering Materials, , 1662-9795 ; ; Volume 636
Disciplina	610.28
Soggetti	Biomedical engineering Biotechnology Medicine - Research
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Recent Highlights in Advanced Functional Materials and Biomedical Research; Foreword; Table of Contents; Chapter 1: Engineering Materials; Selective Sodium Removal from Lithium Chloride Brine with Novel Inorganic Ion Exchanger $\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3$ ; Preparation of Nanoparticulate $\text{YFeO}_3$ by Ultrasonic Assisted Method and its Visible-Light Photocatalytic Properties; Influence of Defects on Elastic Buckling Properties of Single-Layered Graphene Sheets; Study on Synthesis and Catalysis Application of Nano-Au/C Catalyst The Preparation of Multifunctional $\text{Fe}_3\text{O}_4/\text{Au}$ Nanoparticles and its Application to Mercury(II) Analysis Surface Modification of Nano-Silica with Silane Coupling Agent; The Study of Nickel on Copper Nitride Thin Films Deposited by Magnetron Sputtering; Study on Microstructure and Properties of $\text{Cr}_3\text{C}_2/\text{Fe}$ Coating Prepared by Arc Spraying on Copper Surface; Microstructure of $\text{ZrB}_2/6063\text{Al}$ In Situ Composite Processed by Forge; Simultaneous Determination of $\text{Pb}^{2+}$ and $\text{Co}^{2+}$ Based on Fluorescence Quenching of Bi-Color Quantum Dots with the Aid of Multivariate Calibration Techniques Microstructure and Optical Properties during Annealing of DC

Magnetron Sputtered LaB<sub>6</sub>/ITO Films on SiO<sub>2</sub> Substrates  
Electrochemical Performance Cr Doped Spinel LiMn<sub>2</sub>O<sub>4</sub> Cathode for Lithium Ion Batteries; Electrical Properties and Chemical Stability of BaCe<sub>1-x</sub>MoxO<sub>3</sub>- Proton Conductors; Performance of Al<sub>2</sub>O<sub>3</sub> Ceramics with Different Thermal Histories; Removal of Heavy Metal Ions from Waste Water Using Modified Sands: A Brief Review; The Crystallization of Lithium-Iron-Phosphate Glasses Containing Alkali and Alkali-Earth Metal Oxides  
Preparation and Performance of Self-Healing Epoxy Composites by Microcapsulated Approach Friction Properties of PTFE Matrix Composites Reinforced by PPS and PPTA Fibers; Synthesis and Properties of a Novel Si-Ti Polymer/Montmorillonite Nanocomposites; Microstructure and Mechanical Properties of Welded Joints of Cr<sub>18</sub>Ni<sub>30</sub>Mo<sub>2</sub>Al<sub>3</sub>Nb Alloy; Deep Oxidative Desulfurization of Dibenzothiophene by Functional Tungsten-Containing Mesoporous silica from Polyoxometalate-Based Salts; The Metastable Micro-Nanocrystals and Formation Mechanism of Rapidly Solidified Al-21Si Multi-Alloys  
The Molecular Orientation in Monomolecular Layer of Synthesized Porphines-ZnTPP and Copper (II) Phthalocyanine Effects of Fe Doping on the Crystal Structures and Photoluminescence of ZnO Nanorods; Fabrication of Nanoporous Copper Ribbons through Dealloying of Al-Cu-Mn Alloys; Synthesis and Photocatalytic Activity of Silicon-Substituted Hydroxyapatite; Chapter 2: Biotechnologies and Biomedical Engineering; Overexpression and Characterization of the Gene Encoding 1,3-Propanediol Oxidoreductase of *Citrobacter freundii*  
The Preparation of CdTe-Fe<sub>3</sub>O<sub>4</sub>@CS Nanoparticles and its Application for Drug Carrying

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 8th International Conference on Molecular Imprinting (MIP 2014), September 18-21, 2014, Zhenjiang, China. The 37 papers are grouped as follows: Chapter 1: Engineering Materials; Chapter 2: Biotechnologies and Biomedical Engineering

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