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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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| 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 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 Pb^{2+} and 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 LaB₆/ITO Films on SiO₂ Substrates
Electrochemical Performance Cr Doped Spinel LiMn₂O₄ Cathode for Lithium Ion Batteries; Electrical Properties and Chemical Stability of BaCe_{1-x}MoxO₃- Proton Conductors; Performance of Al₂O₃ 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 Cr₁₈Ni₃₀Mo₂Al₃Nb 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-Fe₃O₄@CS Nanoparticles and its Application for Drug Carrying

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
