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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Materials for Modern Technologies; Preface; Table of Contents; Chapter 1: Ceramic Materials and Technologies; Synthesis of Hierarchy-Structural BaTiO ₃ Powder Used for X8R Multilayer Ceramic Capacitors by Two-Step Soft Chemical Method; Effect of H ₃ BO ₃ Coating on the Microwave Dielectric Properties of BZN Ceramics; Dielectric Properties and Microstructure of BaO-Nd ₂ O ₃ -Bi ₂ O ₃ -TiO ₂ Microwave Ceramics with Li ₂ O-B ₂ O ₃ -SiO ₂ ; Effect of Process on the Dielectric Properties of BaTiO ₃ -Based X9R Ceramics; Improvement in the Low-Fire Dielectric Compositions with Middle Permittivity for LTCC Applications Low Temperature Sintering of Lead-Free BaTiO ₃ -Based X9R Ceramics with Bi ₂ O ₃ Dopant and Assisted by LiF-CaF ₂ Flux AgentChapter 2: Material Physics and Applied Chemistry; High Efficient Photoreduction CO ₂ with H ₂ O on Metal Cu-Modified Graphitic Ordered Mesoporous Carbon Supported TiO ₂ Catalysts under Simulated Solar; Processing Effect on the Compressive Strength and Bioactivity of Ti-Based Composites Produced with TiH ₂ and Calcium Phosphate; Rechargeable Alkali and Alkaline Earth Metal-Air Batteries - Potential and Challenges A Fluorescence Quenching Study for the Interaction of 2,6-bis(5-(p-methylphenyl)-1-H-pyrazol-3-yl)pridine with Zn ²⁺ IonChapter 3:

Chemical Engineering and Technologies; Kinetics of Hydrogenolysis of Glycerol to Ethylene Glycol over Raney Ni Catalyst; Biocompatible LDH-Alginate Composites for the Adsorption of Naphthalene Anionic Dye AG 120: Influence of Alginate Concentration on the Adsorption Characteristics; Production of High-Purity Hydrogen and Carbon Dioxide Capture by Sorption Enhanced WGS Reaction Process; Epoxidation of Palm Kernel Oil-Based Crude Oleic Acid Effect of Pretreatment on Adsorption of Nickel by Oil Palm Mesocarp FiberStudy on the Extraction of Phenolic Compounds from Model Oil by Using Ionic Liquid; Recent Development of Biomass Fast Pyrolysis Technology and Bio-Oil Upgrading: An Overview; Gasification of Oil Palm Biomass to Produce Syngas for Electricity Generation - Cost Benefit Analysis; Thermal Behaviour of Slurry Prepared from Clermont Bituminous Coal and Oil Palm Empty Fruit Bunch Bio-Oil; Regeneration of Activated Carbon Using Photo-Oxidation Process Effect of Sisal Fiber Surface Treatments on Sisal Fiber Reinforced Polypropylene (PP) Composites

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 Spring International Conference on Material Sciences and Technology (MST-S), April 16-18, 2014, Shanghai, China. The 52 papers are grouped as follows: Chapter 1: Ceramic Materials and Technologies, Chapter 2: Material Physics and Applied Chemistry, Chapter 3: Chemical Engineering and Technologies, Chapter 4: Nano-Materials and Technologies, Chapter 5: Biomaterials, Chapter 6: Metals and Alloy, Chapter 7: Materials Processing in Mechanical Engineering, Chapter 8: Materials of Engineering Structures
