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| Nota di contenuto       | Machine, Manufacturing, Materials and Information Technology II; Preface and Committees; Table of Contents; Chapter 1: Material Science and Chemical Engineering; Electrochemical Performance of Anode Materials for Lithium-Ion Power Batteries; Effect of Scratch Depths on Tensile Strength of PMMA for Aircraft Canopies; The Effect of Different Methods to Pretreat Reed Pulp on the Crystallinity of Microcrystalline Cellulose; Adsorption of Pb <sup>2+</sup> , Cu <sup>2+</sup> and Cr <sup>3+</sup> on Yongnian Bentonite; Influence of CF on PTC Properties of LDPE/Carbon Fiber Composites Study on Dye-Sensitized Solar Cells Based on Graphene / Pt Counter ElectrodeCorrosion Behavior of Galvanized Steel for Grounding Grids in the Red Clay Soil; Applied Research on New Materials in Product Design; Electrolysis and Flocculating of Azophloxine Using Polyaluminum Chloride; Study on the Optical Transmission Properties of One-Dimensional Photonic Crystal of MoS <sub>2</sub> ; Effect of Ti and Zr Composite Refiner on Microstructure and Tensile Properties of Pure Aluminum; Experimental Analysis of Mechanical Properties of High Organic Soft Clay at Different Depths<br>The Adsorption of Zn <sup>2+</sup> onto Chitosan-Aluminum Oxide Composite MaterialCoal Ash as Flame Retardants for Flexible Poly (Vinyl Chloride); Numerical Simulation of Dynamics on Plant Fibers Suspension in Shear- |

Planar Extensional Flow; The Production and Polymerization of Polyacrylamide; Chapter 2: Manufacturing and Production Processing, Evaluation and Management Applications; Manufacturing Research with SBOS Ice Cream of Goat Milk Processing; Comprehensive Evaluation of Gas Zone in Multi-Layer Sandstone Gas Reservoir  
 Manufacturing Research with Feasibility of Vacuum Freeze Drying Technology for Leisure Meat Products Processing  
 Manufacturing Research with Key Applied Technology in Vacuum Freeze-Drying Leisure Meat Processing; Research on Food Manufacturing with Effect and Comparison of Microwave and Traditional Cooking Processing on Antioxidant Function of Lotus Root; Research on Food Manufacturing with Effect of Cooking on Lotus Roots Absorbing Cholesterol and Saturated Fatty Acids; The Applied Research of HACCP Food Safety System in Pork Traceability  
 Based on the Protection of Water Pack Polysaccharide Processing Technology and its Optimization  
 Manufacturing Research on the Ability of Finance Statement Information in Predicting Abnormal Return of Investing Chinese Manufacturing Companies; Discussion on the Problem of Water Resources Protection; Chapter 3: Energy Saving and Construction Engineering; Study on Control Technology of Project Management for Construction Cost in Civil Engineering; Energy Saving Technology for Doors and Windows of the Building; Study on the Benefits of Energy Saving Reconstruction of Rural Building  
 Comparative Study of Phenol Adsorption from Aqueous Solution onto Four Kinds of Absorbents

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2<sup>nd</sup> International Conference on Material Engineering and Manufacturing Engineering (ICMEME 2014), October 25-26, 2014, Beijing, China. The 54 papers are grouped as follows: Chapter 1: Material Science and Chemical Engineering, Chapter 2: Manufacturing and Production Processing, Evaluation and Management Applications, Chapter 3: Energy Saving and Construction Engineering, Chapter 4: Machinery, Automation and Control, Industry Development Applications, Chapter 5: Communication, Signal and Data Processing, Computational Algorithms and Ap

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