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Titolo	Advanced development of engineering science IV : selected, peer reviewed papers from the 2014 4th International Conference on Automation, Communication, Architectonics and Materials (ACAM 2014), September 27-28, 2014, Wuhan, China // edited by Helen Zhang, M. Han and X.J. Zhao
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Descrizione fisica	1 online resource (581 p.)
Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 1046
Disciplina	620
Soggetti	Engineering
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 at the end of each chapters and index.
Nota di contenuto	Advanced Development of Engineering Science IV; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science, Chemical Materials and Chemical Technologies; Study on Damping Properties of Fe <sub>12</sub> O <sub>19</sub> Sr/NBR Composite; Material Properties and Optimization Design of Tennis Adhesive Formations; Preparation of Pineapple Leaf Cellulose Membrane; Progress in the Studies of Multifunctional Triphenylamine Materials; Synthesis and Property Analysis of Hydrophobic Modification Guar Gum; Preparation and Characterization of Boron Carbon Nitride Films on High Speed Steel Surface Experimental Study on Combustion and Explosion Characteristics of Diesel2-Naphthalenesulfonic Acid Adsorption on Composite Weakly Basic Resin; Synthesized and Preparation of Side Chains Containing Nitrogen Atoms Sulfonated Polyimide Membranes; Optimization of Operating Mode in Copper Flash Smelting Process; Effect of Artificial Aging on Salt Spray Corrosion Resistance of 2024 Al Alloy; Hardness and Corrosion Behavior of Aged 6063 Al Alloy; Microstructure and

Property Study on Wear Resistant Composite Coating Produced by Ultrasonic-Assisted Argon-Arc Clad Injection  
Friction and Wear Performances of n-Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>/Ion Nitrocarburized Duplex Layer at Different Frequencies  
Separation Status of Discarded or Obsolete TNT/RDX/Al Explosive Based on Material Properties;  
Biodegradation of Aniline by Alkaliphilic Strain Bacillus sp. Strain AN2 under High Salinity Condition; Computation for Equation of States of (Mg<sub>0.92</sub>, Fe<sub>0.08</sub>)SiO<sub>3</sub> Perovskite Based on Mie-Gruneisen-Debye Model; Chapter 2: Biomedical Engineering; Applied Technology in Feasibility Assessment of Photoplethysmograph Computing for Heart Rate Variability Application  
Laser Stimulation Control System Design of the Auditory Nerve  
Chapter 3: Architectonics and Construction; Coordination of Road Construction Materials and the Environment; Quality Detection Techniques and Assessment Method of Highway Projects; Research on Risk Evaluation of Investment Decision Stage Base on Sensitivity Analysis for Building Engineering Projects; Research on the Risk Evaluation of Construction Stage Base on Analytical Hierarchy Process for Building Engineering Projects  
Construction Research by Introducing Sense of Place into Cultural Landscape Design in Ethnic Areas: A Tentative Approach to Intensify Place Identity

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#### Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 4th International Conference on Automation, Communication, Architectonics and Materials (ACAM 2014) September 27-28, 2014, Wuhan, China. The 122 papers are grouped as follows: Chapter 1: Materials Science, Chemical Materials and Chemical Technologies; Chapter 2: Biomedical Engineering; Chapter 3: Architectonics and Construction; Chapter 4: Designing and Researches in Machinery; Chapter 5: Advanced Technologies in Mechatronics, Automation and Control; Chapter 6: Communication and Networks; Chapter 7: Computation Methods and Algorithms,

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