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 Food, Medical, and Environmental Applications of Polysaccharides  
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 Plant Signaling Molecules  
 Handbook of Big Data and Analytics in Accounting and Auditing  
 Safety and Reliability. Theory and Applications  
 Mesenchymal Stem Cells  
 Composite Materials in Design Processes  
 Materials for Supercapacitor Applications  
 Brain-Computer Interfaces Handbook  
 Graph Data-Models and Semantic Web Technologies in Scholarly Digital Editing  
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 Fatty Acid-Binding Proteins and Their Roles in Human Health and Disease  
 Engineering and Technology for Healthcare  
 Cognitive Computing: Theory and Applications  
 Consumer Psychology in Tourism and Hospitality  
 The Routledge Handbook of Accounting Information Systems  
 Coal Geology of China  
 Handbook of Approximation Algorithms and Metaheuristics

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## LOGAN CANTRELL

**Data and Methods in Corpus Linguistics** Frontiers Media SA 'Coal' and 'China' to some extent have become synonymous. China is by far the largest user of coal in the world. In 2016, coal production in China amounted to 3.21 billion tons, about half of the total global coal production. Coal consumption accounts for more than 65% of primary energy consumption in China. The Chinese coal industry greatly contributes to the economic development in China, the second largest economy in the world. However, periodically, ubiquitous images of smog blanketing major Chinese cities are viewed all over the world. Coal combustion is one of the important contributors to smog, which is considered to be a major environmental and human health problem for China and other countries. News stories also highlight the periodic coal mine disasters that kill hundreds of Chinese coal miners annually. The need to address these and other human health, environmental, and mine safety issues and to maximize resource recovery and use justifies a vigorous coal research effort. This book brings together experts on almost every aspect of coal geology, coal production, composition and use of the coal and its by-products, and coal's environmental and human health impacts. The chapters in this book were originally published in a special issue of the International Geology Review.

**Current Developments in Biotechnology and Bioengineering** John Wiley & Sons

Deep eutectic solvents represent the newest addition among all other non-conventional and alternate solvent systems. Deep Eutectic Solvent Fund Emerging Applications provides detailed insights on these neoteric solvents, their synthesis methods, types, physicochemical properties, and sustainable applications in emerging scientific areas. The book follows a mechanistic approach on understanding the role of DESs as sustainable media for CO<sub>2</sub> capture, biomass pretreatment, as catalysts, as reaction media for material synthesis, cross coupling reactions, templates for drug delivery, etc. The book offers a springboard for encouraging vital discussions and inspiring further innovations in the field of environmentally benign eutectic solvent systems. - Provides a detailed account of development on DESs with special focus on hydrophilic /hydrophobic DESs - Describes experimental and theoretical outlook on the physical and chemical properties of DESs - Discusses the toxicity profiling of DESs and their importance in designing biocatalytic routes - Includes DESs in emerging areas - pharmaceuticals, drug discovery, functional materials and membrane science - Covers use of DESs in CO<sub>2</sub> capture, biomass transformations, organic reactions, etc.

**Context-Aware Communication and Computing: Applications for**

**Smart Environment** Cambridge University Press

Synthesis and design of new nanocatalysts is an important area of research that aims to introduce multiple types of useful applications in a greener market. The necessity of nanostructuring the active sites has emerged as the key point in a successful design of the catalysts. The book covers the progress in this research area done in the last ten years. It includes the classification of catalysts and structure of active sites at the nanoscale. The book covers examples to present the concept, evolution of nanocatalysts from the perspective of chemistry of materials and their applications.

**Smart Polymers** IGI Global

**Fatty Acid-Binding Proteins and Their Roles in Human Health and Disease: From Basic Science to Clinical Application** presents the latest information on the contributions of different FABPs in physiology and pathophysiology, along with their importance in clinical outcomes. The book is divided into six main sections that cover FABP biology and their role in inflammation and diseases, such as cardiovascular, neurological, and liver diseases, to FABPs and their clinical applications. Each chapter thoroughly reviews current literature, primary research data and clinical cases, providing readers with an overview of the latest information in the expanded field of FABPs. This is an invaluable resource for both researchers and clinicians familiar with and those new to the exciting and everchanging world of fatty acid-binding proteins and clinical disorders. - Compiles the most recent and comprehensive findings on fatty acid-binding proteins (FABPs) - Describes the pathophysiology of FABPs in various diseases and as therapeutic targets - Highlights opportunities for improving diagnosis and treatment by encompassing all pathological conditions involving FABPs

**Recent Advances in Solar-driven Thermochemical Fuel Production and Thermal Energy Storage** Food & Agriculture Org.

**Brain-Computer Interfaces Handbook: Technological and Theoretical Advances** provides a tutorial and an overview of the rich and multi-faceted world of Brain-Computer Interfaces (BCIs). The authors supply readers with a contemporary presentation of fundamentals, theories, and diverse applications of BCI, creating a valuable resource for anyone involved with the improvement of people's lives by replacing, restoring, improving, supplementing or enhancing natural output from the central nervous system. It is a useful guide for readers interested in understanding how neural bases for cognitive and sensory functions, such as seeing, hearing, and remembering, relate to real-world technologies. More precisely, this handbook details clinical, therapeutic and human-computer interfaces applications of BCI and various aspects of human cognition and behavior such as perception, affect, and action. It overviews the different methods and

techniques used in acquiring and pre-processing brain signals, extracting features, and classifying users' mental states and intentions. Various theories, models, and empirical findings regarding the ways in which the human brain interfaces with external systems and environments using BCI are also explored. The handbook concludes by engaging ethical considerations, open questions, and challenges that continue to face brain-computer interface research. Features an in-depth look at the different methods and techniques used in acquiring and pre-processing brain signals, extracting features, and classifying the user's intention Covers various theories, models, and empirical findings regarding ways in which the human brain can interface with the systems or external environments Presents applications of BCI technology to understand various aspects of human cognition and behavior such as perception, affect, action, and more Includes clinical trials and individual case studies of the experimental therapeutic applications of BCI Provides human factors and human-computer interface concerns in the design, development, and evaluation of BCIs Overall, this handbook provides a synopsis of key technological and theoretical advances that are directly applicable to brain-computer interfacing technologies and can be readily understood and applied by individuals with no formal training in BCI research and development.

**Biofuels and Bioenergy** Springer Nature

**Food, Medical, and Environmental Applications of Polysaccharides** provides a detailed resource for those interested in the design and preparation of polysaccharides for state-of-the-art applications. The book begins with an introductory section covering sources, chemistry, architectures, bioactivity, and chemical modifications of polysaccharides. Subsequent parts of the book are organized by field, with chapters focusing on specific applications across food, medicine, and the environment. This is an extremely valuable book for researchers, scientists, and advanced students in biopolymers, polymer science, polymer chemistry, biomaterials, materials science, biotechnology, biomedical engineering, cosmetics, medicine, food science, and environmental science. This important class of biopolymer can offer attractive properties and modification potential, enabling its use in groundbreaking areas across food, medical, and environmental fields. The book will be of interest to scientists, R&D professionals, designers, and engineers who utilize polysaccharide-based materials. - Presents comprehensive information of the polymeric structures and properties that can be developed from polysaccharides - Offers systematic coverage of classification, synthesis, and characterization, enabling targeted design and preparation of polysaccharides for specific applications - Explores advanced methods, for novel applications across food, medicine, and the environment

*Guidebook for direct access entities engaging in the Green Climate Fund accreditation process* Guidebook for direct access entities engaging in the Green Climate Fund accreditation process Handbook of Approximation Algorithms and Metaheuristics, Second Edition reflects the tremendous growth in the field, over the past two decades. Through contributions from leading experts, this handbook provides a comprehensive introduction to the underlying theory and methodologies, as well as the various applications of approximation algorithms and metaheuristics. Volume 1 of this two-volume set deals primarily with methodologies and traditional applications. It includes restriction, relaxation, local ratio, approximation schemes, randomization, tabu search, evolutionary computation, local search, neural networks, and other metaheuristics. It also explores multi-objective optimization, reoptimization, sensitivity analysis, and stability. Traditional applications covered include: bin packing, multi-dimensional packing, Steiner trees, traveling salesperson, scheduling, and related problems. Volume 2 focuses on the contemporary and emerging applications of methodologies to problems in combinatorial optimization, computational geometry and graphs problems, as well as in large-scale and emerging application areas. It includes approximation algorithms and heuristics for clustering, networks (sensor and wireless), communication, bioinformatics search, streams, virtual communities, and more. About the Editor Teofilo F. Gonzalez is a professor emeritus of computer science at the University of California, Santa Barbara. He completed his Ph.D. in 1975 from the University of Minnesota. He taught at the University of Oklahoma, the Pennsylvania State University, and the University of Texas at Dallas, before joining the UCSB computer science faculty in 1984. He spent sabbatical leaves at the Monterrey Institute of Technology and Higher Education and Utrecht University. He is known for his highly cited pioneering research in the hardness of approximation; for his sublinear and best possible approximation algorithm for k-TMM clustering; for introducing the open-shop scheduling problem as well as algorithms for its solution that have found applications in numerous research areas; as well as for his research on problems in the areas of job scheduling, graph algorithms, computational geometry, message communication, wire routing, etc.

[Periodico di Mineralogia Vol. 84,1 april 2015 Elsevier](#)

The Routledge Handbook of Accounting Information Systems is a prestige reference work offering a comprehensive overview of the state of current knowledge and emerging scholarship in the discipline of AIS. The pace of technological-driven change is rapid, and this revised edition provides a deeper focus on the technical underpinnings and organisational consequences of accounting information systems. It has been updated to capture the changes in technology since the previous edition. It now includes chapters and scholarly thought on artificial intelligence, predictive analytics and data visualisation, among others. Contributions from an international cast of authors provide a balanced overview of established and developing themes, identifying issues and discussing relevant debates. The chapters are analytical and engaging. Many chapters include cases or examples, and some provide additional resources for readers. The chapters also provide a reflection on where the research agenda is likely to advance in the future. This is a complete and indispensable guide for students and researchers in accounting and accounting information systems, academics and students seeking convenient access to an unfamiliar area, as well as established researchers seeking a single repository on the current debates and literature in the field.

#### **Handbook of Research on Mobile Devices and Applications in Higher Education Settings** Springer

Cognitive Computing: Theory and Applications, written by internationally renowned experts, focuses on cognitive computing and its theory and applications, including the use of cognitive computing to manage renewable energy, the environment, and other scarce resources, machine learning models and algorithms, biometrics, Kernel Based Models for transductive learning, neural networks, graph analytics in cyber security, neural networks, data driven speech recognition, and analytical platforms to study the brain-computer interface. - Comprehensively presents the various aspects of statistical methodology - Discusses a wide variety of diverse applications and recent developments - Contributors are internationally renowned experts in their respective areas *Engineering Optics 2.0* Springer Nature

The use of composite materials in the design process allows one to tailor a component's mechanical properties, thus reducing its overall weight. On the one hand, the possible combinations of matrices, reinforcements, and technologies provides more options to the designer. On the other hand, it increases the fields that need to be investigated in order to obtain all the information requested for a safe design. This Applied Sciences Special Issue, "Composite Materials in Design Processes", collects recent advances in the design methods for components made of composites and composite material properties at a laminate level or using a multi-scale approach.

[The Chemistry & Physics of Clays and Other Ceramic Materials](#) Taylor & Francis

Handbook of Nanotechnology Applications: Environment, Energy,

Agriculture and Medicine presents a comprehensive overview on recent developments and prospects surrounding nanotechnology use in water/wastewater separation and purification, energy storage and conversion, agricultural and food process, and effective diagnoses and treatments in medical fields. The book includes detailed overviews of nanotechnology, including nanofiltration membrane for water/wastewater treatment, nanomedicine and nanosensor development for medical implementation, advanced nanomaterials of different structural dimensions (0D, 1D, 2D and 3D) for energy applications, as well as food and agricultural utilization. Other sections discuss the challenges of lab-based research transitioning towards practical industrial use. - Helps scientists and researchers quickly learn and understand the key role of nanotechnology in important industrial applications - Takes an interdisciplinary approach, demonstrating how nanotechnology is being used in a wide range of industry sectors - Outlines the role nanotechnology plays in creating safer, cheaper and more energy-efficient projects and devices

#### **Agronomic Crops** BoD - Books on Demand

Nanocomposite materials are multiphase materials where the interactions between the different components are enhanced by their intimate contact. Indeed, this emerging class of innovative materials guarantees excellent macroscopic properties by taking advantage of the peculiar characteristics that nanometer-sized fillers give to a suitable matrix compared to those obtainable with the same fillers at micrometric dimensions. These innovative materials improve and extend the range of desirable properties. Diverse Applications of Organic-Inorganic Nanocomposites: Emerging Research and Opportunities is a pivotal reference source that provides vital research on the application of organic-inorganic nanocomposite materials within various professional disciplines and in different human activities. While highlighting topics such as photocatalysis, atomistic modeling, and membrane separation, this publication explores the strengths and weaknesses of nanocomposites as well as future concepts and devices. This book is ideally designed for chemists, biologists, engineers, researchers, government professionals, academicians, and postgraduate students.

#### **Diverse Applications of Organic-Inorganic Nanocomposites:**

##### **Emerging Research and Opportunities** CRC Press

Plant Signaling Molecule: Role and Regulation under Stressful Environments explores tolerance mechanisms mediated by signaling molecules in plants for achieving sustainability under changing environmental conditions. Including a wide range of potential molecules, from primary to secondary metabolites, the book presents the status and future prospects of the role and regulation of signaling molecules at physiological, biochemical, molecular and structural level under abiotic stress tolerance. This book is designed to enhance the mechanistic understanding of signaling molecules and will be an important resource for plant biologists in developing stress tolerant crops to achieve sustainability under changing environmental conditions. - Focuses on plant biology under stress conditions - Provides a compendium of knowledge related to plant adaptation, physiology, biochemistry and molecular responses - Identifies treatments that enhance plant tolerance to abiotic stresses - Illustrates specific physiological pathways that are considered key points for plant adaptation or tolerance to abiotic stresses

#### **Food, Medical, and Environmental Applications of Polysaccharides** Springer

As the world's population continues to grow and economic conditions continue to improve, more solid and liquid waste is being generated by society. Improper disposal methods can not only lead to harmful environmental impacts but can also negatively affect human health. To prevent further harm to the world's ecosystems, there is a dire need for sustainable waste management practices that will safeguard the environment for future generations. Waste Management: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines the management of different types of wastes and provides relevant theoretical frameworks about new waste management technologies for the control of air, water, and soil pollution. Highlighting a range of topics such as contaminant removal, landfill treatment, and recycling, this multi-volume book is ideally designed for environmental engineers, waste authorities, solid waste management companies, landfill operators, legislators, environmentalists, policymakers, government officials, academicians, researchers, and students.

#### **Waste Management: Concepts, Methodologies, Tools, and Applications** Elsevier

By contrasting different approaches and datasets, this book highlights critical developments in latest corpus-linguistic research.

#### **Microbial Enzyme Technology in Food Applications** MDPI

Fungal nanobionics has great prospects for developing new products with industrial, agriculture, medicine and consumer applications in a wide range of sectors. The fields of chemical engineering, agri-food, biochemical, pharmaceuticals, diagnostics and medical device development all employ fungal products, with fungal nanomaterials currently used in a wide range of applications, ranging from drug development to food industry and agricultural sector. The fungal agents emerge as an

environmentally friendly, clean, non-toxic agent for the biogenic metal nanoparticles and employs both intracellular and extracellular methods. The simplicity of scaling up and downstream processing and the presence of fungal mycelia affording an increased surface area provide key advantages. In addition, the larger spectrum of synthesized nanoparticle morphologies and the substantially faster biosynthesis rate in cell-free filtrate (due to the higher amount of proteins secreted in fungi) make this a particularly enticing route. Understanding the diversity of fungi in assorted ecosystems, as well as their interactions with other microorganisms, animals and plants, is essential to underpin real and innovative technological developments and the applications of metal nanoparticles in many disciplines including agriculture, catalysis, and biomedical biosensors. Importantly, biogenic fungal nanoparticles show significant synergistic characteristics when combined with antibiotics and fungicides to offer substantially greater resistance to microbial growth and applications in nanomedicine ranging from topical ointments and bandages for wound healing to coated stents.

#### **Fractional Calculus** Springer Nature

Mesenchymal Stem Cells: Isolation, Characterization, and Applications thoroughly presents the isolation, characterization, and some applications of mesenchymal stem cells in the clinic. The book has two parts: "Isolation and Characterization" and "Clinical Perspectives and Applications." In Part I, the subsequent chapters introduce some techniques in isolation, characterization, and purification of mesenchymal stem cells in different tissues. In Part II, some applications of mesenchymal stem cells in the popular diseases, which include cartilage regeneration, spinal cord injury, and osteoarthritis, are discussed. This book provides a succinct yet comprehensive overview of mesenchymal stem cells for advanced students, graduate students, and researchers.

#### **Edizioni Nuova Cultura**

Materials for Supercapacitor Applications provides a snapshot of the present status of this rapidly growing field. It covers motivations, innovations, ongoing breakthroughs in research and development, innovative materials, impacts, and perspectives, as well as the challenges and technical barriers to identifying an ideal material for practical applications. This comprehensive reference by electro-chemists explains concepts in materials selection and their unique applications based on their electro-chemical properties. Chemists, chemical and electrical engineers, material scientists, and research scholars and students interested in energy will benefit from this overview of many important reference points in understanding the materials used in supercapacitors. - Provides an overview of the formulation for new materials and how to characterize them for supercapacitor applications - Describes all the information on the available materials for supercapacitor applications - Outlines potential material characterization methods - Discusses perspectives and future directions of the field

#### **Proceedings of the 2015 International Conference on Materials Engineering and Environmental Science (MEES2015)** IGI Global

Through the rise of big data and the internet of things, terrorist organizations have been freed from geographic and logistical confines and now have more power than ever before to strike the average citizen directly at home. This, coupled with the inherently asymmetrical nature of cyberwarfare, which grants great advantage to the attacker, has created an unprecedented national security risk that both governments and their citizens are woefully ill-prepared to face. Examining cyber warfare and terrorism through a critical and academic perspective can lead to a better understanding of its foundations and implications. Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications is an essential reference for the latest research on the utilization of online tools by terrorist organizations to communicate with and recruit potential extremists and examines effective countermeasures employed by law enforcement agencies to defend against such threats. Highlighting a range of topics such as cyber threats, digital intelligence, and counterterrorism, this multi-volume book is ideally designed for law enforcement, government officials, lawmakers, security analysts, IT specialists, software developers, intelligence and security practitioners, students, educators, and researchers.

#### **Fungal Nanobionics: Principles and Applications** Springer

This book introduces context-aware computing, providing definitions, categories, characteristics, and context awareness itself and discussing its applications with a particular focus on smart learning environments. It also examines the elements of a context-aware system, including acquisition, modelling, reasoning, and distribution of context. It also reviews applications of context-aware computing - both past and present - to offer readers the knowledge needed to critically analyse how context awareness can be put to use. It is particularly to those new to the subject area who are interested in learning how to develop context-aware computing-oriented applications, as well as postgraduates and researchers in computer engineering, communications engineering related areas of information technology (IT). Further it provides practical know-how for professionals working in IT support and technology, consultants and business decision-makers and those working in the medical,

human, and social sciences.

Best Sellers - Books :

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- [Chicka Chicka Boom Boom \(board Book\) By Bill Martin Jr.](#)
- [Baking Yesteryear: The Best Recipes From The 1900s To The 1980s By B. Dylan Hollis](#)
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- [Brown Bear, Brown Bear, What Do You See? By Bill Martin Jr.](#)
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