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Materials for Supercapacitor Applications

Recent Advances in Solar-driven Thermochemical Fuel Production and Thermal
Energy Storage

Handbook of Approximation Algorithms and Metaheuristics

Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications

Insights into Human Neurodegeneration: Lessons Learnt from Drosophila

Fungal Nanobionics: Principles and Applications

Composite Materials in Design Processes

Current Developments in Biotechnology and Bioengineering

Plant Signaling Molecules

Fractional Calculus

Engineering Optics 2.0

Microbial Enzyme Technology in Food Applications

Coal Geology of China

Handbook of Big Data and Analytics in Accounting and Auditing

The World Factbook

Engineering and Technology for Healthcare

The Ecology of Predation at the Microscale

Mesenchymal Stem Cells

Diverse Applications of Organic-Inorganic Nanocomposites: Emerging Research and
Opportunities

The Routledge Handbook of Accounting Information Systems

Nanocatalysis

Waste Management: Concepts, Methodologies, Tools, and Applications

Fatty Acid-Binding Proteins and Their Roles in Human Health and Disease

Consumer Psychology in Tourism and Hospitality

Context-Aware Communication and Computing: Applications for Smart Environment

Food, Medical, and Environmental Applications of Polysaccharides

Guidebook for direct access entities engaging in the Green Climate Fund
accreditation process

The Chemistry & Physics of Clays and Other Ceramic Materials

Brain-Computer Interfaces Handbook

Cognitive Computing: Theory and Applications

Smart Polymers

Periodico di Mineralogia Vol. 84,1 april 2015

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

Biofuels and Bioenergy

Agronomic Crops

Proceedings of the 2015 International Conference on Materials Engineering and Environmental Science (MEES2015)
Data and Methods in Corpus Linguistics
Handbook of Nanotechnology Applications

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TANIYA RICH

Graph Data-Models and Semantic Web Technologies in Scholarly Digital Editing

Frontiers Media SA
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.

Materials for Supercapacitor Applications CRC Press

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.

Recent Advances in Solar-driven Thermochemical Fuel Production and Thermal Energy Storage

Routledge
'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.

Handbook of Approximation Algorithms and Metaheuristics IGI Global

"This book consists of one hundred and nine selected papers presented at the 2015 International Conference on Materials Engineering and Environmental Science (MEES2015), which was successfully held in Wuhan, China during September 25-27, 2015. All papers selected for this proceedings were subjected to a rigorous peer-review process by at least two independent peers. The papers were selected based on innovation, organization, and quality of presentation. The MEES2015 covered a wide spectrum of research topics, ranging from fundamental studies, technical innovations, to industrial applications in Chemical Material and Chemical Processing Technology, Composite Materials, Alloy Materials and Metal Materials, Characteristics of Materials, Building Material and Construction Technology, Ecology and Environment, Technology for Environmental Protection, Economy and Environment, Mechanical and Control Engineering, and Manufacturing Technology. The MEES2015 brought together more than one hundred researchers from

China, South Korea, Taiwan, Japan, Malaysia, and Saudi Arabia, and provided them with a forum to share, exchange and discuss new scientific development and future directions of Materials Engineering and Environmental Science."-- Provided by publisher Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications Elsevier
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.

Insights into Human Neurodegeneration: Lessons Learnt from Drosophila Taylor & Francis

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 CO₂ 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 CO₂ capture, biomass transformations, organic reactions, etc. *Fungal Nanobionics: Principles and Applications* Frontiers Media SA 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.

Composite Materials in Design Processes

Springer Nature

The book will provide an update on our understanding of predator-prey through the prism of ecology, physiology, molecular biology, and mathematical modelling. The integration of these different perspectives while focusing on the microbial realm will highlight the importance of scale in ecological interactions, and their importance in applications. This book should thereby contribute to theoretical as well as to applied ecologists and microbiologists. Furthermore, the detailed but amenable chapters could serve as the basis of teaching advanced courses in (microbial) ecology and environmental microbiology. This work is a collection of articles that discuss microbial predation from a variety of perspectives. It provides the readers a concise resource describing factors that are critical for several

different predatory microbes, including *Myxobacterium* spp. and *Bdellovibrio*-and-like organisms (BALOs), including the mechanisms involved, ecological conditions that adversely impact it and potential applications in aquaculture and bioproduction. The first half of this collection focuses more on ecological aspects of predation, with in-depth discussions on "wolf pack" predators, the presence and activities of predators in waste-water treatment plants and the role of intraguild predatory relationships, i.e., when two different predators are competing for a single prey but also interact with one another. The reader will gain a deeper understanding of the predatory mechanisms involved and their ecological roles. In the latter half, emphasis is given more to the application and limitations of predators. In addition to discussing secondary metabolite production within different microbial predators, the readers will also learn how predators are being used to purify secondary metabolites from prey. This section also discusses the expanding and promising

role of predation in aquaculture, focusing on the application of predators to reduce pathogenic populations, but includes some important caveats for young researchers to consider and follow when working with *Bdellovibrio*. This work is written for both experienced researchers already in the field and for young scientists who are captivated by the thought of predation at the microscale and its growing importance within a wide-array of fields.

Current Developments in Biotechnology and Bioengineering BoD - Books on Demand

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.

[Plant Signaling Molecules](#)

Springer Nature
Biofuels and Bioenergy: Opportunities and Challenges is the first of two volumes that address the technological developments and challenges in the

production of a broad range of biofuels and bioenergy products from renewable feedstock. The book emphasizes the opportunities and challenges involved in various processes including fermentation, transesterification, microbial fuels cells, liquefaction, gasification, and pyrolysis. These are also considered from a biorefinery perspective and discuss all common biomass feedstocks. In addition, the book presents new research on microalgae from waste water treatment, large scale production of microalgae, microbial biooil production, biogas production, computational tools for manipulation of metabolic pathway for enhanced biogas production, production of biofuel from genetically modified microalgal biomass, techno-economic analysis, environmental impact and life cycle analysis. Biofuels and Bioenergy is an ideal reference on the latest research for researchers and students working in the area of biofuels and renewable energy. - Addresses biological and chemical methods of biofuel and bioenergy production - Provides industry case

studies alongside in-depth techno-economic analysis, environmental impact, and life cycle assessment of biofuels production - Focuses on the commercial viability of production processes

Fractional Calculus
Guidebook for direct access entities engaging in the Green Climate Fund accreditation process

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.

Engineering Optics 2.0
Springer

This handbook collects the most up-to-date scholarship, knowledge, and new developments of

big data and data analytics by bringing together many strands of contextual and disciplinary research. In recent times, while there has been considerable research in exploring the role of big data, data analytics, and textual analytics in accounting, and auditing, we still lack evidence on what kinds of best practices academics, practitioners, and organizations can implement and use. To achieve this aim, the handbook focuses on both conventional and contemporary issues facing by academics, practitioners, and organizations particularly when technology and business environments are changing faster than ever. All the chapters in this handbook provide both retrospective and contemporary views and commentaries by leading and knowledgeable scholars in the field, who offer unique insights on the changing role of accounting and auditing in today's data and analytics driven environment. Aimed at academics, practitioners, students, and consultants in the areas of accounting, auditing, and other business disciplines, the handbook provides

high-level insight into the design, implementation, and working of big data and data analytics practices for all types of organizations worldwide. The leading scholars in the field provide critical evaluations and guidance on big data and data analytics by illustrating issues related to various sectors such as public, private, not-for-profit, and social enterprises. The handbook's content will be highly desirable and accessible to accounting and non-accounting audiences across the globe.

Microbial Enzyme

Technology in Food

Applications MDPI

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.

Coal Geology of China

Springer

This document was prepared by the FAO Regional Office for Europe and Central Asia (REU), in close collaboration with FAO's Climate and Environment Division (CBC), in the frames of the second project of the Republic of North Macedonia under the Green Climate Fund Readiness and Preparatory Support Programme, implemented by FAO under guidance and leadership of the Cabinet of the Deputy President of the Government of North Macedonia, as National Designated Authority (NDA) to the GCF. The document aims to provide the main guidelines that potential entities should consider before engaging in the Green Climate Fund (GCF) accreditation process. It includes a brief description of the main steps of the GCF

accreditation process, information on the most relevant policies, as well as an explanation of each section of the accreditation form.

Handbook of Big Data and Analytics in Accounting and Auditing

CRC Press

Simona Raneri, Germana

Barone, Vincenza Crupi,

Francesca Longo,

Domenico Majolino, Paolo

Mazzoleni, Davide Tanasi,

Josè Teixeira and Venuti

Valentina Technological

analysis of Sicilian

prehistoric pottery

production through small

angle neutron scattering

technique Simona Raneri,

Germana Barone, Paolo

Mazzoleni, Davide Tanasi

and Emanuele Costa

Mobility of men versus

mobility of goods:

archaeometric

characterization of Middle

Bronze Age pottery in

Malta and Sicily

(15th-13th century

BC) Judit Molera, Javier

Iñáñez, Glòria Molina,

Josep Burch, Xavier

Alberch, Michael D.

Glascocock and Trinitat

Pradell Lustre and glazed

ceramic collection from

Mas Llorens, 16th-17th

centuries (Salt, Girona).

Provenance and

technology Celestino Grifa,

Alberto De Bonis,

Vincenza Guarino, Chiara

Maria Petrone, Chiara

Germinario, Mariano

Mercurio, Gianluca
Soricelli, Alessio Langella
and Vincenzo Morra Thin
walled pottery from Alife
(Northern Campania,
Italy) Svetlana Valiulina
and Tatiana Shlykova
Iranian Bowl from Biliar:
Complex Research and
Conservation Fatma
Madkour, Hisham Imam,
Khaled Elsayed and Galila
Meheina Elemental
Analysis Study of Glazes
and Ceramic Bodies from
Mamluk and Ottoman
Periods in Egypt by Laser-
Induced Breakdown
Spectroscopy (LIBS)
Fernanda Inserra,
Alessandra Pecci, Miguel
Ángel Cau Ontiveros and
Jordi Roig Buxó Organic
residues analysis of Late
Antique pottery from
Plaça Major-Horts de Can
Torras (Castellar del
Vallés, Catalonia,
Spain) Marino Maggetti,
Andreas Heege and
Vincent Serneels
Technological aspects of
an early 19th c. English
and French white
earthenware assemblage
from Bern
(Switzerland) Leandro
Fantuzzi, Miguel A. Cau
Ontiveros and Josep Maria
Macias Amphorae from
the Late Antique city of
Tarraco-Tarracona
(Catalonia, Spain):
archaeometric
characterization Shlomo
Shoval and Yitzhak Paz

Analyzing the fired-clay
ceramic of EBA Canaanite
pottery using FT-IR
spectroscopy and LA-ICP-
MS

The World Factbook

Elsevier
Smart materials have
been produced by
conceiving of the idea of
materials/systems having
a fourth dimension. To
match advances in
instrumentation, efforts
are being made to
develop materials,
resulting in smart
materials with enhanced
performance. In nature,
the action of stimuli-
responsive materials is
reversible; this idea has
attracted interest for its
potential research and
industrial applications.
The challenge remains
how to couple these
applications with
environmental
consciousness. This book
presents the basics of
smart polymers and
describes their current
and future applications.
This book is different from
other books on the
subject in that it explores
polymer materials' smart
behavior in more depth,
covering vibration
damping, thermal and
electrochemical energy,
sensing at trace level,
biotechnology, and so on.
The 14 chapters in this
book cover diverse areas,

including: •
Photoresponsive polymers
that can be manipulated
using a specific frequency
of light • Designing
polymers for vibration
damping • Smart
manipulations of
hydrophobic and super-
hydrophobic polymers •
Biopolymers, including
hydrogels for smart
application, drug delivery,
and other uses • Smart
paints • Self-healing and
shape memory polymers
• Holography for data
storage • Phase change
polymers and solid
polymer electrolytes for
thermal and
electrochemical energy •
Molecular imprinting
polymers for sub-ppm
sensing and removal of
unwanted materials •
Smart textiles, and the
concept of advanced
textiles This book will be
of particular interest to
researchers,
postgraduates, and
industry experts. It offers
an extensive introduction
to the basics of smart
polymers and their
possible applications.
CRC Press
In scholarly digital editing,
the established practice
for semantically enriching
digital texts is to add
markup to a linear string
of characters. Graph data-
models provide an
alternative approach,

which is increasingly being given serious consideration. Labelled-property-graph databases, and the W3C's semantic web recommendation and associated standards (RDF and OWL) are powerful and flexible solutions to many of the problems that come with embedded markup. This volume explores the combination of scholarly digital editions, the graph data-model, and the semantic web from three perspectives: infrastructures and technologies, formal models, and projects and editions.

Engineering and Technology for Healthcare
Elsevier

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.

The Ecology of Predation at the Microscale Edizioni Nuova Cultura

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

Mesenchymal Stem Cells
Elsevier

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

Best Sellers - Books :

- [Happy Place](#)
- [Outlive: The Science And Art Of Longevity](#)
- [Remarkably Bright Creatures: A Read With Jenna Pick By Shelby Van Pelt](#)
- [The Seven Husbands Of Evelyn Hugo: A Novel By Taylor Jenkins Reid](#)
- [Spare By Prince Harry The Duke Of Sussex](#)
- [Hunting Adeline \(cat And Mouse Duet\) By H. D. Carlton](#)
- [The Body Keeps The Score: Brain, Mind, And Body In The Healing Of Trauma By Bessel Van Der Kolk M.d.](#)
- [Playground](#)
- [Love You Forever By Robert Munsch](#)
- [The Housemaid's Secret: A Totally Gripping Psychological Thriller With A Shocking Twist By Freida Mcfadden](#)