



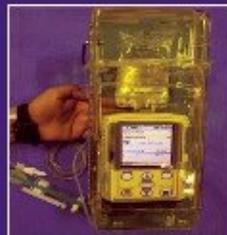
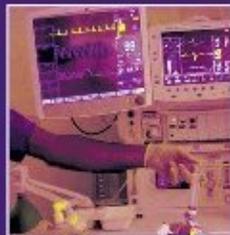
**Gazelle**

# **STM NEW TITLES**

**Titles Received in May 2017**



## Handbook of Anaesthesia & Peri-operative Medicine



Edited by  
Cyprian Mendonca  
Chandrashekar Vaidyanath

**NOVA SCIENCE PUBLISHERS**

**SAGAMORE PUBLISHING**

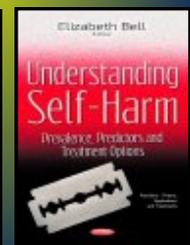
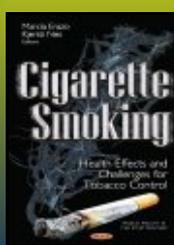
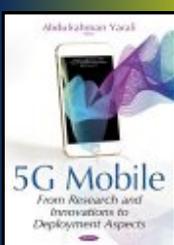
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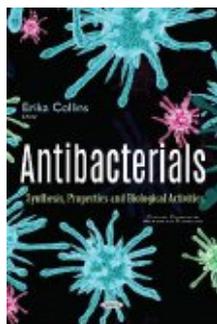




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## BIOCHEMICAL ENGINEERING

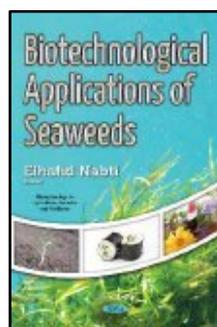


### **Antibacterials Synthesis, Properties & Biological Activities (Chemical Engineering Methods & Technology Series)**

Edited by Erika Collins

This book examines the synthesis, properties and biological activities of antibacterials. Chapter One focuses on the recent development of biomass antibacterials. Chapter Two provides comprehensive overview on smart materials based on structured noble metals covering its various forms from ultrathin layers over discrete metal islands up to isolated nanoparticles having exceptional properties applicable in prevention of bacterial infections. Chapter Three discusses general aspects regarding lectins and their purification and then reviews the state-of-art on antibacterial lectins, their action mechanisms, defensive roles and current efforts regarding their effective biotechnological application. Chapter Four reviews natural antibacterials for technical applications. Chapter Five studies antimicrobial activities of natural products from *Libidibia ferrea* (Mart. ex Tul.) L.P. Queiroz var. *ferrea*. Chapter Six discusses redox-active metal complexes with cycloaminomethyl derivatives of diphenols. Chapter Seven analyzes recent progress in the discovery and development of novel antibiotics during the first fifteen years of the 21st Century.

HB 9781634857932 £199.99 January 2016 Nova Science Publishers 257 pages 180x260mm

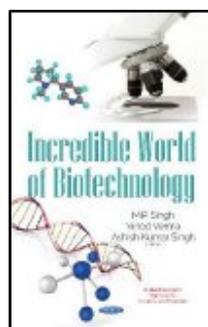


### **Biotechnological Applications of Seaweeds (Biotechnology in Agriculture, Industry & Medicine Series)**

Edited by Elhafid Nabti

Seaweeds, or marine macro-algae, are known as plants growing on the seashore, in salt marshes, in brackish waters, or in the ocean. Many species of seaweeds have shown an important utilisation for the improvement of plant growth since ancient times, and this positive impact is due to their richness in diverse compounds like lipids, proteins, phyto-hormones, amino acids, antimicrobial compounds and different minerals. Other aspects of various seaweed application had been developed more recently for plant growth and health stimulation: seed germination improvement, shoot and root development, increase in water and nutrient uptake/resistance, phytoremediation and elimination of contaminated soil, and fertilisation. Additionally, the use of marine algae is not limited to agriculture, and it also applies to the pharmaceutical industry (drugs) and other cosmetics. It is well documented that seaweeds are widely used as a source of food in many countries. It is very important to underline that the biotechnological utilisation of seaweeds becomes undeniable in our time, because their richness and diversity can provide humans and animals a continuous food source devoid of pollutants, unlike chemical substances destroying the environment. For this reason, many experiments and reports concerning the diversity, ecology, chemical composition, function and other diverse characteristics of seaweed were carried out, and scientists still continue to investigate the impact this type of aquatic plant has on life on Earth.

PB 9781536109689 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm



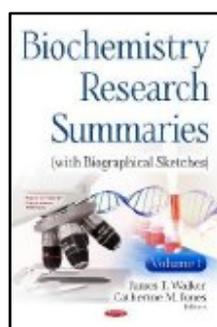
### **Incredible World of Biotechnology (Biotechnology in Agriculture, Industry & Medicine Series)**

Edited by M P Singh, Ashish Kumar & Singh Vinod Verma

Humanity is facing a colossal problem due to a population explosion and the relentless exploitation of natural resources. Biotechnology is one of the most cutting edge fields of technology, which has the prospective to address some of the world's paramount challenges, such as feeding a rising population and offering novel alternatives to our limited natural resources. The ultimate objective of biotechnology is to meet human requirements in order to improve our quality of life. Due to progressive and comprehensive research and development, the prominence of biotechnology has come into existence. It is widely used in agriculture, medicine, engineering, science, technology and other forms of applications, and can be harnessed as a panacea for the problems of mankind. Apart from the research in the field concerning transgenic animals and plants, use of various microorganism derived products in microbiology has changed the way biotic and abiotic components of the Earth interact. This book shows how the use of biotechnology is evolving and expanding, highlighting the methods that can prove to positively affect our future and planet.

HB 9781536110975 £152.50 January 2017 Nova Science Publishers 200 pages 155x230mm

## BIOLOGY & LIFE SCIENCES

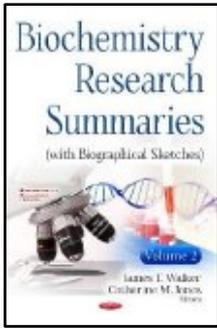


### **Biochemistry Research Summaries (with Biographical Sketches) Volume 1 (Biochemistry Research Trends Series)**

Edited by James T Walker & Catherine M Jones

This book provides research summaries from a number of different focuses in this important field, as well as compiles biographical sketches of top professionals in the field of biochemistry research.

HB 9781536108958 £219.50 January 2017 Nova Science Publishers 363 pages 180x260mm

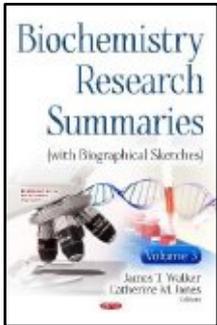


## **Biochemistry Research Summaries (with Biographical Sketches) Volume 2 (Biochemistry Research Trends Series)**

Edited by James T Walker & Catherine M Jones

This book provides research summaries from a number of different focuses in the field of biochemistry research.

HB 9781634856416 £219.50 January 2017 Nova Science Publishers 376 pages 180x260mm

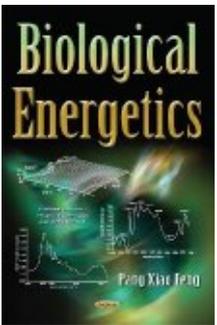


## **Biochemistry Research Summaries (with Biographical Sketches) Volume 3 (Biochemistry Research Trends Series)**

Edited by James T Walker & Catherine M Jones

This book provides research summaries from a number of different focuses in this important field, as well as compiles biographical sketches of top professionals in the field of biochemistry research.

HB 9781536110029 £219.50 January 2017 Nova Science Publishers 400 pages 180x260mm

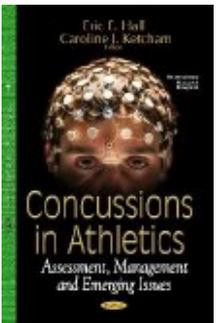


## **Biological Energetics (Systems Biology -- Theory, Techniques & Applications Series)**

Pang Xiao Feng

This book presents a complete review of biological energetics and responds systematically that there is no possible activity without bio-energy in the living bodies. In this case, we elucidate and describe concretely the generations of bio-energy and its properties, regulation of bio-energy metabolism, bio-energy transport and its theoretical description, the stability of bio-energy transport, the experimental evidences of correctness of bio-energy theory and its wide applications, as well as the use of bio-energy in living systems involving animals, plants and human beings. Additionally, the biological phenomena, processes and effects related to bio-energy are also delineated, explained and shed light on theoretical calculations and analyses, numerical simulations and experimental measurements using biology, molecular biology and biophysics. This book contains seven chapters, in which 380 pages and a great number of illustrations and figures reveal the theoretical and experimental results. It is intended for researchers, teachers, graduate students and upper-level undergraduate students.

HB 9781634848114 £257.50 January 2016 Nova Science Publishers 450 pages 180x260mm

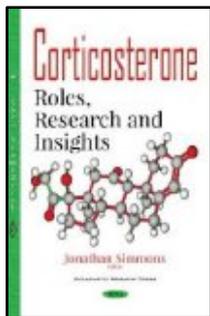


## **Concussions in Athletics Assessment, Management & Emerging Issues (Neuroscience Research Progress Series)**

Edited by Eric E Hall & Caroline Ketcham

Sports related concussions and the implications of short-and long-term outcomes is a concern to athletes, parents, coaches, academics, and health care professionals. Leading clinicians and scientists across a variety of fields have come together to collaborate around topics related to concussion education, assessment, management and treatment of head injuries that occur in sports. Athletes of all levels not only have to perform on the field, but may also have to perform in the classroom where symptoms of a concussion can have profound impacts. As health care professionals work to implement the best practices around concussive injuries, scientists assess outcomes, implications and emerging topics related to management and recovery. This book aims to gather leaders in the field of concussion assessment and management to highlight the state of evidence-based practice. In addition, authors explore emerging issues around the care of athletes in returning to play as well as returning to academic settings. Concussion assessment and management is not a one-size-fits-all concept, and topics around pre-existing factors like cultural, ethnic and sex differences are essential to consider as we attempt to change reporting behaviours and positively impact recovery and outcomes from injury. As new information continues to emerge, the education, assessment, management and treatment of concussion evolves with the health and safety of athletes taking a front seat. This book is a timely snapshot of concussion assessment and management, and it is also a leader in emerging issues in the ever-changing science and evidence-based practice of sport-related concussion research.

HB 9781536106428 £219.50 January 2017 Nova Science Publishers 320 pages 180x260mm



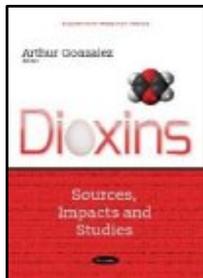
## **Corticosterone**

### **Roles, Research & Insights (Biochemistry Research Trends Series)**

Edited by Jonathan Simmons

This book discusses the roles and provides new research and insights on the glucocorticoid known as corticosterone. Chapter One presents and discusses the mechanisms underlying the harmful effects of glucocorticoids in the pathophysiology of major depressive disorder. Chapter Two focuses on alterations of the brain serotonergic system induced by dysfunctions of the adrenal gland. Chapter Three highlights wild animal studies on glucocorticoids and discusses how they inform biomedical research. Chapter Four summarises present knowledge about corticosterone regulation in rodents with special emphasis to stressor differences.

PB 9781536108590 £78.50 January 2017 Nova Science Publishers 115 pages 155x230mm



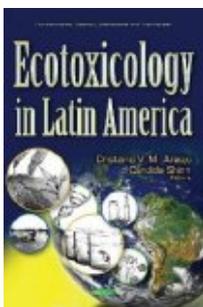
## **Dioxins**

### **Sources, Impacts & Studies (Biochemistry Research Trends Series)**

Edited by Arthur Gonzalez

Dioxins are a group of structurally and chemically related polyhalogenated aromatic hydrocarbons which includes polychlorinated dibenzo-p-dioxins (PCDDs or dioxins), dibenzofurans (PCDFs or furans) and dioxin-like polychlorinated biphenyls (dl-PCBs). They constitute a class of persistent environmental compounds, usually found as a mixture of congeners. This book provides new research on the sources and impacts of dioxins.

PB 9781536108330 £78.50 January 2017 Nova Science Publishers 80 pages 155x230mm



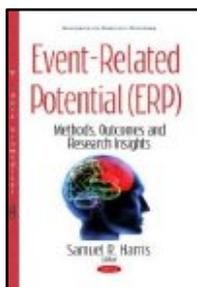
## **Ecotoxicology in Latin America**

### **(Environmental Science, Engineering & Technology Series)**

Edited by Cristiano V M Araújo & Candida Helena Shinn

Latin America is one of the most diverse but also vulnerable regions in the world that is under continuous anthropogenic pressure due to increasing urban, industrial and agricultural developments. Although there are many research groups studying the impacts caused by those pressures, the results and conclusions obtained by many of them are largely unknown because their studies are mostly published at the local or regional scale. Ecotoxicology in Latin America represents an effort to collect and share research performed in Latin America in the area of ecotoxicology and environmental risk assessment, presenting a collection of relevant and innovative studies focused on the following topics: (i) Contaminant entrance, transportation, distribution and fate; (ii) Environmental risk in freshwater ecosystems; (iii) Ecological risk in coastal zones; (iv) Biomonitoring programs: water, sediment and air; (v) Physiological effects and biomarkers; (vi) Soil ecotoxicology; (vii) Bioaccumulation and human risk; (viii) Toxicity of emerging contaminants; and (ix) Frontiers in Ecotoxicology. This selection of topics aims at covering the most important subjects and applications of ecotoxicology, including classical and novel subjects. Therefore, this book contains chapters related to different environmental compartments prone to contamination (water, sediment, soil and air), to different contamination sources (agriculture, industry, urban discharges and natural emissions), and to multiple biological responses at different organizational levels (individual to ecosystems, including human beings).

HB 9781536106008 £295.50 January 2017 Nova Science Publishers 605 pages 180x260mm



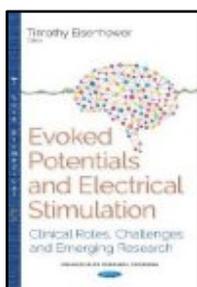
## **Event-Related Potential (ERP)**

### **Methods, Outcomes & Research Insights (Neuroscience Research Progress Series)**

Edited by Samuel R Harris

Evoked Response Potentials (ERPs) are characteristic electric brain patterns. In this book, the first chapter examines the relationship between ERPs and the cognitive events they signify. Chapter Two explores the abnormality of neural and functional connectivity in autism resulting in executive function deficits by measuring performance on cognitive tests with ERP recording. Chapter Three reviews event-related brain indices of gap-filling processing in Kaqchikel.

PB 9781536108057 £78.50 January 2017 Nova Science Publishers 110 pages 155x230mm



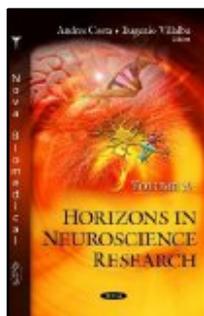
## **Evoked Potentials (EPs)**

### **Clinical Roles, Challenges & Emerging Research (Neuroscience Research Progress Series)**

Edited by Timothy Eisenhower

This book discusses advances in research on evoked potentials and electrical stimulation. Chapter One describes the neurophysiological immediate and short-term changes that occur in the nervous system structures of patients assessed in three different contexts of work: Intraoperative Neurophysiologic Monitoring (IONM), ICU, and in the Clinical Neurophysiological Laboratory. Chapter Two focuses on the importance of cortical evoked potentials to analyse the neurophysiological correlates of migraines, strokes and related psychiatric complications, paying particular attention to the possible implications in terms of clinical applications and future research. Chapter Three analyses electric stimulation in stroke patients. Chapter Four describes what is known about the effects of the use of electrical stimulation of carcasses of meat animals, including the effects on meat tenderness and meat sensorial characteristics. Chapter Five explores the effects of oxidative stress on brain electrical activity and its repercussions on sensory organisation in geriatric rhesus monkeys in captivity. The final chapter provides a short communication on visually evoked potentials in rhesus monkeys.

PB 9781536110753 £90.50 January 2017 Nova Science Publishers 140 pages 155x230mm

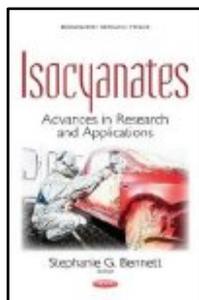


## Horizons in Neuroscience Research Volume 29 (Horizons in Neuroscience Research Series)

Edited by Andres Costa & Eugenio Villalba

Provides readers with the latest developments in neurosciences research. Chapter 1 provides a call for action in treating and/or curing cerebral palsy throughout the lifespan. Chapter 2 reviews disturbances in mitochondrial function and vesicular transport as mechanisms for pathogenesis in Parkinson's disease. Chapter 3 presents an integrated psychological theory that endeavours to explain how adults with the severe neurological disorder of spinal cord injury (SCI), cope with the many challenges and stresses involved in adjustment to this catastrophic injury. Chapter 4 analyses the theory of logarithm in neurobiology. Chapter 5 discusses model molecular interactions of trace amine.

HB 9781536107951 £152.50 January 2017 Nova Science Publishers 180 pages 155x230mm

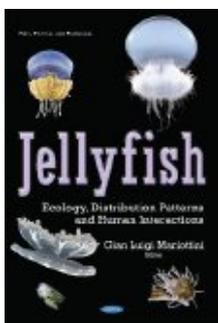


## Isocyanates Advances in Research & Applications (Biochemistry Research Trends Series)

Edited by Stephanie G Bennett

Isocyanates represent the most important class of heterocumulenes. They have found wide synthetic application, for example in the preparation of amides, esters, peptides, nucleotides, heterocyclic compounds; for the identification of amines, alcohols, and nucleic acids; for the synthesis of bioactive compounds revealing a wide spectrum of biological activity; in the design of effective medicines, herbicides and insecticides; and as chemical intermediates in the production of polyurethane products such as foams, coatings, and elastomers. This book provides new research and reviews several applications of isocyanates.

PB 9781536108583 £90.50 January 2017 Nova Science Publishers 140 pages 155x230mm

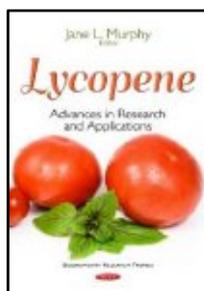


## Jellyfish Ecology, Distribution Patterns & Human Interactions (Fish, Fishing & Fisheries Series)

Edited by Gian Luigi Mariottini

Cnidarian jellyfish are among the most elegant and dazzling organisms inhabiting the global aquatic environment, due to their various and sometimes striking colours as well as their long and dense tentacle structures. Despite their extreme beauty, jellyfish are also considered as a very dangerous and venomous organism. Their genetic makeup provides them with batteries of intracellular capsules (nematocysts) produced by the Golgi apparatus of specialized cells (cnidocytes) from which the whole phylum Cnidaria takes the name (from the Greek κνίδη, which means "nettle"). As a matter of fact, some of these organisms are known as "sea nettles" and present a considerable amount of danger to bathers and sea-workers in several coastal zones around the world. Therefore, the occurrence of jellyfish blooms constitutes a serious threat from a sanitary and economical point of view, preventing humans from visiting beaches, coasts, and coastal waters by interfering with bathing and other recreational and vocational activities linked to the sea. In addition, the connection between jellyfish outbreaks and global environmental changes has been taken very seriously over the past few years. Indeed, human influence and worsening environmental conditions have induced many species to adapt to new situations, bringing about physiological and behavioural modifications.

HB 9781634856881 £219.50 January 2017 Nova Science Publishers 350 pages 180x260mm

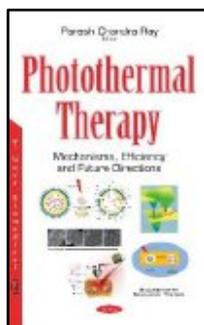


## Lycopene Advances in Research & Applications (Biochemistry Research Trends Series)

Edited by Jane L Murphy

Lycopene is an acyclic carotenoid, mainly responsible for the bright-red color abundantly found in vegetables and fruits such as tomatoes, watermelons, and gac, as well as in microorganisms such as *Blakeslea trispora* and *Dunaliella salina*. In recent years, lycopene has attracted increasing attention because of its potential anticancer and antiarteriosclerotic activities as well as strong antioxidant properties. Provides a review of new research and applications of lycopene.

PB 9781536109757 £78.50 January 2017 Nova Science Publishers 72 pages 155x230mm

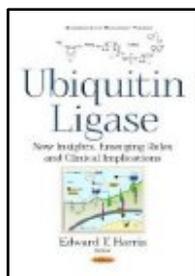


## Photothermal Therapy Mechanisms, Efficiency & Future Directions (Biochemistry Research Trends Series)

Edited by Paresch Chandra Ray

Cancer metastasis is one of the greatest challenges for our society and is responsible for over 90% of cancer-related deaths. Even in the 21st century, currently available therapies have very limited curative effects for metastatic cancers patients, where the five-year survival rate is only about 20%. Our society needs rapid, sensitive, and reliable cancer therapy which will help save millions of lives every year worldwide. There is no doubt that the development of nano-material based targeted therapy techniques are fast growing research areas for oncology, nanomedicine, chemistry, biology, biomedical engineering and other disciplines. Photo-thermal therapy is a minimally-invasive targeted therapy using bio-conjugated nanoparticles, in which photon energy is converted into heat to kill cancer. Over the last ten years, society has experienced a tremendous growth in the development and implementation of photothermal therapy for cancer. To summarise the recent growth, the first volume in the Photothermal Therapy: Mechanisms, Efficiency and Future Directions series discusses the development of different nanomaterial based photothermal therapy, which have the capability for targeted therapy using near infrared (NIR) light. It contains six chapters written by renowned experts in this area, covering from basic science to possible device design which can have immense applications in our society.

PB 9781536105681 £90.50 January 2017 Nova Science Publishers 120 pages 155x230mm



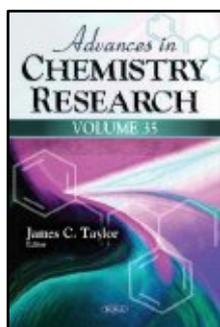
## Ubiquitin Ligase New Insights, Emerging Roles & Clinical Implications (Biochemistry Research Trends Series)

Edited by Edward T Harris

The E3 ubiquitin ligases facilitate substrate specificity and isopeptide bond formation between C-terminal glycine residue of ubiquitin (Gly 76) and a lysine residue in the target protein. This book reviews several new insights, discusses emerging roles and analyses clinical implications of ubiquitin ligases.

HB 9781536108941 £90.50 January 2017 Nova Science Publishers 170 pages 155x230mm

## CHEMISTRY

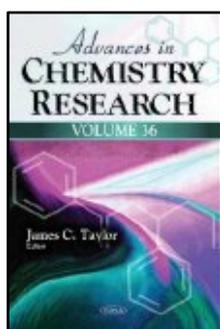


## Advances in Chemistry Research Volume 35 (Advances in Chemistry Research Series)

Edited by James C Taylor

The authors' of this latest volume discuss recent advances in chemistry research. Chapter One provides recent advances and developments in gliadin-based drug delivery systems. Chapter Two discusses advances achieved in the development of catalytic processes for the production of  $\beta$ -citronellol derivatives as alkyl esters, aldehydes, carbamates, and carbonates. Chapter Three focuses on the developments and applications of a new type of polymer-supported organosilica layered-hybrid membranes. Chapter Four investigates the long-range order in natural oils and fats. Chapter Five reviews the possible link between the main classes' content of monoterpenes and sesquiterpenes and finds a direct link between them and their antioxidant activity. Chapter Six reports on the chemical compositions and biological activities of essential oils hydrodistilled from three plants from Nigeria. Chapter Seven reviews fluorescence and phosphorescence spectra of xanthone in the vapor phase. Chapter Eight examines mass transfer characteristics of an external loop airlift reactor.

HB 9781536107340 £235.50 January 2017 Nova Science Publishers 192 pages 155x230mm

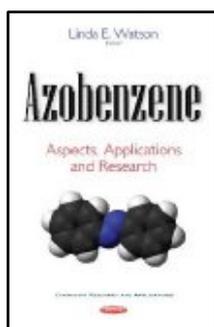


## Advances in Chemistry Research Volume 36 (Advances in Chemistry Research Series)

Edited by James C Taylor

The authors' of this latest volume discuss recent advances in chemistry research. Chapter One discusses the structural characteristics and composition of proanthocyanidins in grapes and wines, including the main factors that could determine PAs concentration. Chapter Two reviews the analytical methodologies devoted to the extraction, characterisation and determination of proanthocyanidins in plants and plant-derived food products. Chapter Three describes a novel procedure for the extraction and isolation of proteoglycans from connective tissue. Chapter Four focuses on the analytical potential of porphyrins and metalloporphyrins with a particular emphasis on electroanalysis. Chapter Five analyses S2 fluorescence of metalloporphyrins and its applications for photochemical tools. Chapter Six introduces spin-crossover phenomena of assembled coordination polymers. Chapter Seven discusses the design, controllable synthesis and properties of hybrid carbon membranes for gas separation.

HB 9781536107647 £238.50 January 2017 Nova Science Publishers 200 pages 155x230mm

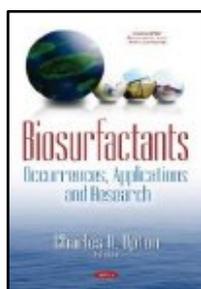


## Azobenzene Aspects, Applications & Research (Chemistry Research & Applications Series)

Edited by Linda E Watson

Azobenzene (AZB) is characterised by two phenyl rings connected by an azo linkage ( $-N=N-$ ), that can exist in either the cis or trans conformations. This book provides new research on this chemical compound. Chapter One presents an overview regarding research progress and its reflections in applications of azobenzene-containing derivatives. Chapter Two reviews recent advances in hybrid azobenzene-silica materials. Chapter Three demonstrates the general concepts and potential applications of azobenzene-based liquid crystallines by understanding the relationships of molecular design-structural symmetry-morphological aspect-optical property. Chapter Four focuses on the synthesis, photo- and thermal isomerisations of azobenzenes incorporated in macrocyclic coordination compounds, and discusses the effect of macrocyclic structures on the isomerisation of azobenzenes. Chapter Five studies wavelength dependence of polarised UV light induced supramolecular orientation of azobenzene-containing organic/inorganic hybrid materials of chiral Schiff base Ni(II), Cu(II) and Zn(II) complexes.

PB 9781536106732 £90.50 January 2017 Nova Science Publishers 100 pages 155x230mm

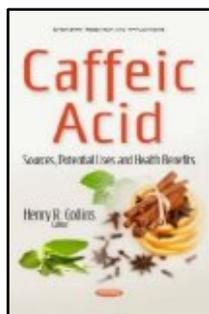


## Biosurfactants Occurrences, Applications & Research (Chemistry Research & Applications Series)

Edited by Charles R Upton

Surfactants (surface-active-agents) are amphiphilic organic compounds that lower the surface tension (or interfacial tension) between two different phases. Surfactants and emulsifiers, including personal hygiene, cosmetic products, toothpaste, and many other pharmaceutical by-products, resemble part of our daily routine basic activities. The market for surfactants and emulsifying products is therefore huge and demands are ever increasing. This book provides new research on the occurrences, applications and provides new research on biosurfactants.

HB 9781536107067 £90.50 January 2017 Nova Science Publishers 150 pages 155x230mm



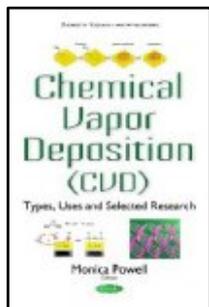
## Caffeic Acid

### Sources, Potential Uses & Health Benefits (Chemistry Research & Applications Series)

Edited by Henry R Collins

Caffeic acid is a phenolic acid naturally occurring in many plant foods such as carrots, cabbage, tomatoes, and several berries. It is also present in multiple beverages such as coffee, fruit juices and wine. Moreover, caffeic acid is one of the major active components in many traditional Chinese medicines. As a natural product, it possesses several biological and physiological activities. These activities include antioxidant, anti-mutagenic, anti-tumor and anti-obesity effects. For these reasons, caffeic acid is also being developed into drug for sale, for instance, for its use in the development of asthmatic and allergenic drugs. Although caffeic acid, together with other polyphenols, are not essential nutrients, they are secondary metabolites synthesised by plants with bioactive properties, also known as phytochemicals, which may have an important effect on human health. This book reviews sources, potential uses and health benefits of caffeic acid.

PB 9781536108620 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm



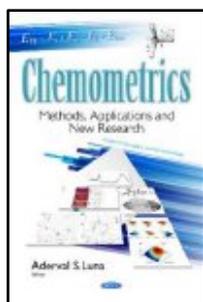
## Chemical Vapor Deposition (CVD)

### Types, Uses & Selected Research (Chemistry Research & Applications Series)

Edited by Monica Powell

Provides new research on types and uses of chemical vapor deposition (CVD). Chapter One focuses on the synthesis and characteristics of carbon nanofibers based on phenolic resin and transition metal catalysts by CVD. Chapter Two provides an overview of different reactor types that have been proved to be viable options for graphene growth. Chapter Three outlines the significance of atmospheric pressure chemical vapor deposition technology in large area graphene electrodes and demonstrates their use in lithium ion batteries towards the advancement of their performance. Chapter Four analyses low-energy plasma CVD for epitaxy and in-situ doping of group-IV semiconductors in nanoelectronics.

PB 9781536108934 £78.50 January 2017 Nova Science Publishers 95 pages 155x230mm



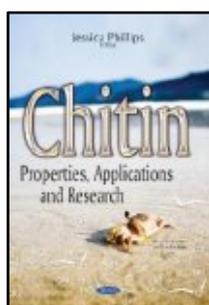
## Chemometrics

### Methods, Applications & New Research (Analytical Chemistry & Microchemistry Series)

Edited by Aderval S Luna

Offers an accessible introduction to application-oriented multivariate methods of data analysis and procedures that are highly beneficial to solving a variety of problems by using analytical chemistry and statistics. It presents a diverse selection of topics that include experimental designs applied for the optimisation of liquid chromatographic and capillary electrophoresis, variable selection in chemical data, calibration of the first order: data, algorithms, and analytical applications, characterisation of polyphenols from natural products using separation techniques coupled with chemometrics, detection of malignant tumours using FT-IR spectroscopy combined with chemometrics, guidelines in synthesis of new anticancer compounds, direct analysis of solid samples by spectroscopy and chromatographic techniques, application of data fusion in different levels with examples, and analysis of pharmaceutical and food products by various analytical techniques. The book helps to embrace the growing role of chemometrics.

HB 9781536105186 £152.50 January 2017 Nova Science Publishers 230 pages 155x230mm



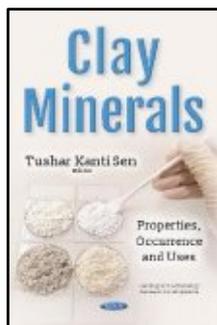
## Chitin

### Properties, Applications & Research (Polymer Science & Technology Series)

Edited by Jessica Phillips

Chitin is widely distributed in nature and is the second most abundant polysaccharide after cellulose. This polysaccharide is mainly found in the exoskeleton of crustaceans and insects. It is also found in marine invertebrates, fungi and yeasts. Industrially, it is produced from crustacean shells, which are very abundant waste products in the seafood industry. This book provides new research on the properties and applications of chitin.

PB 9781536108903 £78.50 January 2017 Nova Science Publishers 95 pages 155x230mm



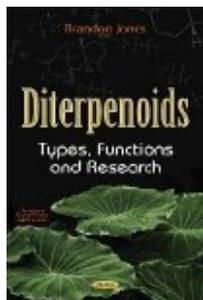
## Clay Minerals

### Properties, Occurrence & Uses (Geology & Mineralogy Research Developments Series)

Edited by Tushar Sen

To a geologist, clay minerals are fine particles and are also major constituents of rocks, sediment and soils. To an engineer, ceramicist or mineralogist, clay minerals belong to the family of phyllosilicate of minerals, which shows properties of plasticity, shrinkage, and hardening upon drying or firing. The types and characteristics of clay minerals depends on their origin of occurrences. Commonly clay minerals are formed over a long period of time by gradual chemical decomposition of feldspar, usually silicate-bearing by low concentration of carbonic acid and other diluted acidic or alkaline solvents. Clay minerals can be grouped into four main groups: kaolinite, illite, smectite and vermiculite. Clay and clay minerals have been used since the very beginning of civilisation, and are also very important industrially. This is because of their abundant availability, inexpensiveness and unique properties. Considering its unique properties and vast applications, this book was written in order to provide various research results and compile up-to-date development on the current states of knowledge concerning clay mineral occurrences, types, properties and various uses.

HB 9781536108231 £152.50 January 2017 Nova Science Publishers 210 pages 155x230mm



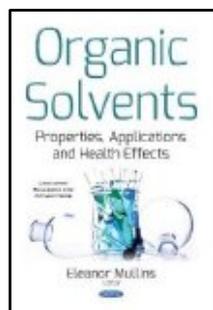
## Diterpenoids

### Types, Functions & Research (Chemistry Research & Applications Series)

Edited by Brandon Jones

Diterpenoids are chemical compounds containing 20 carbon atoms and belong to the terpenoid class. They derive from geranylgeraniol, a C<sub>20</sub> precursor, have a C<sub>20</sub>H<sub>32</sub> basic structure, and are composed of four isoprene units. These features make diterpenoids different from simple terpenes, which possess only 10 carbon atoms. A diterpenoid molecule may also include alcohol, phenol, aldehyde, cheton, or acidic functional groups. These compounds are highly lipophilic, odorless, and may possess strong flavours. They are found mainly in fungi and in resins of higher-order plants, as typical products of plant metabolism. This book examines the types, functions and provides new research on diterpenoids.

HB 9781536106718 £90.50 January 2017 Nova Science Publishers 150 pages 155x230mm



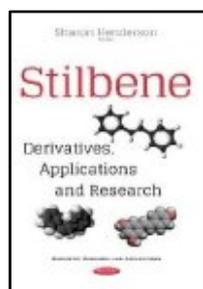
## Organic Solvents

### Properties, Applications & Health Effects (Chemistry Research & Applications Series)

Edited by Eleanor Mullins

Green Chemistry is a philosophy that has been implemented in different areas of science. Organic solvents allow recovery of bioactive compounds without contaminating the environment, since they are non-petroleum solvents and cheap. This book focuses on the properties, applications and health effects of organic solvents. Chapter One examines the chemistry and food applications of green solvents. Chapter Two analyses the use of green solvent in the extraction of bioactive compounds. Chapter Three gives a thermochemical description of the stabilising/destabilising effect of organic solvent molecules on the stability of model enzyme (bovine pancreatic  $\alpha$ -chymotrypsin) to elucidate what intermolecular processes produce the main effect on the stability of the enzymes at high and low water content in organic liquids. Chapter Four reviews a novel experimental method was proposed to study the stability of enzymes in water-organic mixtures. Chapter Five discusses the metrology of exposure to organic solvents in the shoe industry of Sfax.

PB 9781536109238 £78.50 January 2017 Nova Science Publishers 90 pages 155x230mm



## Stilbene

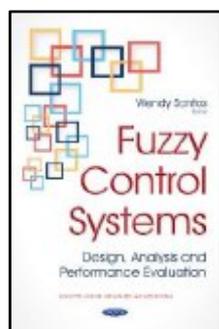
### Derivatives, Applications & Research (Chemistry Research & Applications Series)

Edited by Sharon Henderson

Stilbenes and their derivatives constitute important classes of both natural products and synthetic small molecules and have attracted intense interest for their intricate structures and diverse biological activities. This book provides new research on the derivatives and applications of stilbene.

PB 9781536109740 £78.50 January 2017 Nova Science Publishers 75 pages 155x230mm

## COMPUTING



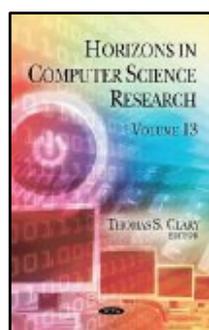
## Fuzzy Control Systems

### Design, Analysis & Performance Evaluation (Computer Science, Technology & Applications Series)

Edited by Wendy Santos

This book reviews fuzzy control systems. Chapter One presents a new class of fuzzy logic systems named type-2 fuzzy logic systems (T2FLS). Chapter Two discusses DSP based hardware and software implementation of a sliding mode control for high performance IM drive. Chapter Three examines fuzzy logic based encoder-less speed controls of permanent-magnet synchronous motors (PMSM) for hub motor drives. Chapter Four presents the development and research of fuzzy control system of floating dock docking operations. Chapter Five examines the problem of a robust H $\infty$  fuzzy control design for a class of nonlinear Markov jump systems via a LMI-based approach.

HB 9781634858892 £180.99 January 2017 Nova Science Publishers 200 pages 155x230mm



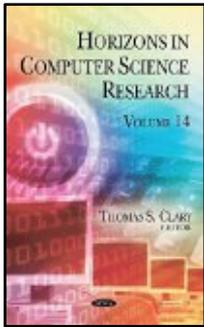
## Horizons in Computer Science Research

### Volume 13 (Horizons in Computer Science Series)

Edited by Thomas S Clary

This book presents original results on the leading edge of computer science research. Chapter One reviews a framework for high-dimensional optimisation problems. Chapter Two proposes the use of Stable Logical Infrastructures (SLI) for the effective and strategic reuse of architectural designs. Chapter Three discusses the control system design problems for autonomous intelligent robot systems from the viewpoint of a Petri net approach. Chapter Four studies predation tactics on grouping prey via individual-based computational models. Chapter Five defines a rating contribution ratio and quantifies it from the perspective of a collaborative filtering algorithm; discusses a method of efficiently improving the recommendation accuracy by performing several simulations experiments; and defines and formulates the rating contribution ratio based on a user-based collaborative filtering algorithm. Chapter Six proposes a conceptual bilateral Cloud Forensic-as-a-Service model where both consumers and providers can independently collect, verify the equity of the forensic analysis process and try to resolve potential disputes emerging from the independently collected results.

HB 9781536105933 £238.50 January 2017 Nova Science Publishers 160 pages 155x230mm

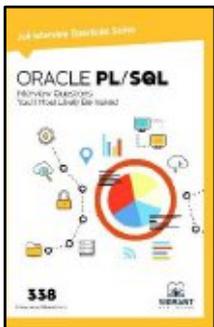


## **Horizons in Computer Science Research Volume 14 (Horizons in Computer Science Series)**

Edited by Thomas S Clary

This book presents original results on the leading edge of computer science research. Chapter One discusses motion planning for robots with rigid bodies. Chapter Two provides an overview of handheld/mobile computing devices, pathology applications, social media in the context of pathology, and novel mobile-driven technologies like wearables and mixed reality tech, and discusses their potential impact in pathology. Chapter Three focuses on reliability and accessibility issues of a distributed cloud service based on Semi-Markov modeling. Chapter Four examines parallel dynamic programming for large-scale data applications. Chapter Five presents the ensemble of both texture and color features for reliable person re-identification. Chapter Six provides an overview of common techniques and commercial products used in tracking people and objects within indoor environments. Chapter Seven analyses quadratic programming formulation for controlling the emissions of air pollution point sources.

HB 9781536110074 £238.50 January 2017 Nova Science Publishers 248 pages 155x230mm



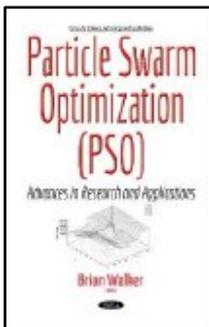
## **ORACLE PL/SQL**

### **Interview Questions You'll Most Likely Be Asked (Job Interview Questions Series)**

Vibrant Publishers

Features: 261 ORACLE PL/SQL Interview Questions; Dozens of examples; 77 HR Questions with Answers; 2 Aptitude Tests. This is arguably the future for enterprise information systems. Corporations, both large and small, are looking for resources who know their job in depth. A perfect companion to stand a head above the rest in today's competitive job market. Rather than going through comprehensive, textbook-sized reference guides, this book includes only the information required immediately for job search to build a career as a ORACLE PL/SQL Professional. If you think this book just covers important topics in brief, then you are mistaken! It covers questions those are based on project knowledge and experience gained on successful high-profile ORACLE implementers. This book puts the interviewee in the driver's seat and helps them steer their way to impress the interviewer.

PB 9781946383112 £18.99 May 2017 Vibrant Publishers 224 pages 140x215mm b/w illus

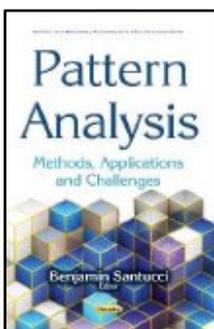


## **Particle Swarm Optimization (PSO) Advances in Research & Applications (Computer Science, Technology & Applications Series)**

Edited by Brian Walker

Particle swarm optimisation (PSO) is one of the recently developed swarm intelligent optimisation technologies that offer the advantages of simplicity and fast biological convergence. The technique originated from the theory of artificial life and evolution, which is based on the optimisation that is achieved as a result of swarm behaviour. PSO can be easily implemented due to fewer parameters for adjustment hence it has been applied broadly in various engineering fields. This book reviews advances in research and applications of PSO.

PB 9781536108286 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm



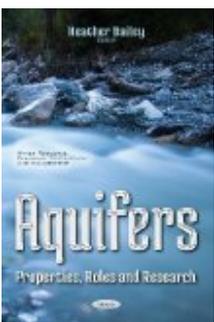
## **Pattern Analysis Methods, Applications & Challenges (Computer Science, Technology & Applications Series)**

Edited by Benjamin Santucci

This book reviews methods, applications and challenges of pattern analysis. Chapter One addresses the identification problem of the printed medieval documents origin. The authors of Chapter Two perform a review on current cheilosopic techniques, addressing the study methodology and usefulness of lip print patterns study. Chapter Three examines theoretical bases of human identification using palatal rugae pattern, and addresses the study methodology and techniques, potentialities and future usefulness of palatal rugae patterns. Chapter Four focuses on variable-scale-based pattern analysis for time series of wind speed, atmospheric pressure, and atmospheric temperature.

PB 9781536106305 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm

## **EARTH SCIENCES**

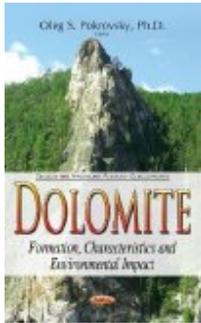


## **Aquifers Properties, Roles & Research (Water Resource Planning, Development & Management Series)**

Edited by Heather Bailey

Groundwater is a major concern for the human community as it is the most important and reliable source of freshwater supply on earth. It is a renewable and finite natural resource, vital for man's life, socio-economic development and it is a valuable component of the ecosystem. However, groundwater is vulnerable to both natural and human impacts. An aquifer is an underground porous rock formation which allows water to move through it. Water wells are drilled through aquifers for easier access to groundwater in many areas and is sometimes the only access to fresh water. This book discusses the properties, roles, and provides further new research on aquifers.

PB 9781536110692 £78.50 January 2017 Nova Science Publishers 80 pages 155x230mm



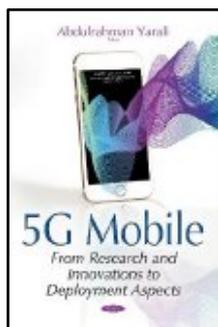
## **Dolomite Formation, Characteristics & Environmental Impact (Geology & Mineralogy Research Developments Series)**

Edited by Oleg S Pokrovsky

Dolomite ( $\text{CaMg}(\text{CO}_2)$ ) is certainly one of the most enigmatic sedimentary minerals on Earth. Its massive deposits of the past have very little contemporary analogues and today, scientists still do not have a consensus on how hundred meter-thick dolomite deposits of the Precambrian age (> 600 million year) were formed across the globe. Recently, the interest in dolomite has risen due to its importance as a major regulator not only of carbon cycle in the past, but also as an important host rock in ongoing projects of  $\text{CO}_2$  underground storage and sequestration. The growing demand for primary resources also impacted the interest in dolomite and dolomitic rocks, which are now widely used in numerous technological and industrial applications. For these reasons, there is a steady increase of scientific publications linked to dolomite problematics. A Web of Science search (all databases) with "dolomite" as the topic yielded more than 13,000 papers published from 1950-2015; 4,200 of them were published over the last five years and 8,800 were produced during preceding sixty years. The number of publications concerning use of dolomite in the field of engineering and physical science (non-earth sciences) increased five-fold from the mid-1990s to 2000s, and nowadays contributes to more than a half of all publications on dolomite. This clearly illustrates the rising interest in dolomite for technological applications over the past decade. This book incorporates a large number of disciplines, from geology to chemical engineering of catalysts. It illuminates three main aspects of dolomite as a major sedimentary rock and important technological material: (i) natural occurrence; (ii) laboratory study of dolomite dissolution and precipitation and (iii) applications in various technological aspects. The first two chapters address geological and mineralogical aspects of dolomite deposits in the natural environment (Wagner et al.; Marfil et al). The next three chapters cover the reactivity of dolomite in an aqueous solution (Pokrovsky and Schott), the synthesis of dolomite analogues from aqueous solution (Pina et al) and laboratory precipitation of Mg-bearing carbonates and protodolomite from homogeneous supersaturated solutions (Pokrovsky). Finally, the last two chapters (Ivanets et al., Ryabkov et al.) present the application of dolomite for numerous technological and engineering purposes.

HB 9781536107708 £90.50 January 2017 Nova Science Publishers 190 pages 155x230mm

## **ENGINEERING**



## **5G Mobile From Research & Innovations to Deployment Aspects (Electronics & Telecommunications Research Series)**

Edited by Abdulrahman Yarali

This book is intended for senior undergraduate and graduate students, as well as practicing engineers and managers who are involved in research, design, implementation and analysis of a higher generation of wireless mobile communications systems. In this book, there are thirteen chapters which cover the wireless networking evolution and technological advancements toward 5G. Although current technologies like 4G LTE-A are available to us, the staggering increase in the number of people moving towards mobile broadband for multiple services and other value added services is becoming a challenge for the service providers to keep up with all aspects of the market's comprehensive needs; this capital-intensive investment industry possesses tensions that exist between performance factors vs cost, availability and efficiency. 5G systems are expected to provide a huge leap in the technology world with an infrastructure that will expedite the growth, connectivity and smartness of all types of devices, with significant increase in capacity and interoperability while maintaining a high quality of services (QoS). The major difference between this new generation and 4G LTE from a consumer point of view is not just a higher data rate requirement, but also to provide seamless access and enhanced personalised services while protecting their privacy and personal information. The author is very pleased that the technology, academia, and industry communities are discussing this important and fast growing industry, and he is certain that the content of this book will shed some important light on this subject. The chapters presented in this book discuss visions, research, design and implementation of various aspects of 5G wireless networking and applications. The challenges faced in providing a new platform, business models, radio access, and billions of device connectivity in the near future with unseen applications and services to meet user experiences ubiquitously and securely are also presented.

PB 9781536109412 £189.99 January 2017 Nova Science Publishers 250 pages 180x260mm

## **Advances in Communications & Media Research Volume 12 (Advances in Communications & Media Research Series)**

Edited by Anthony V Stavros

In a society predicated on information, the media has a pervasive presence. From government policy to leisure television, the information age touches us all. The papers collected in this book constitute some of today's leading analyses of the information industry. Together, these essays represent a needed foundation for understanding the present state and future development of the mass media. Current trends in communications as well as media impact on public opinion are studied and reported on. Topics include a brief introduction on software radio to ultra wideband radio communications; wideband slotted microstrip antennas for modern applications; Device-to-Device (D2D) communication in 5G networks; the use of mobile devices to support young people with disabilities; and singular optimal control of switched systems.

HB 9781536109795 £238.50 January 2017 Nova Science Publishers 170 pages 155x230mm



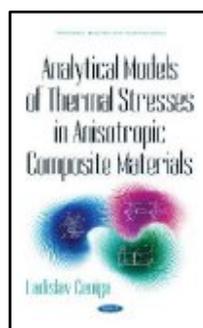


## Advances in Materials Science Research Volume 28 (Advances in Materials Science Research Series)

Edited by Maryann C Wythers

This book provides readers with the latest developments in materials science research. Chapter One examines chiral metamaterials. Chapter Two discusses chitosan-based planar optical waveguides for relative humidity measurements. Chapter Three investigates the ultrafast magnon dynamics in antiferromagnetic 3d-transition-metal monoxides NiO and MnO using optical pump-probe spectroscopy and terahertz time-domain spectroscopy. Chapter Four analyzes luminescent Zn/Cd-based metal-organic frameworks and their applications. Chapter Five focuses on the development and characterisation of textile-based strain sensors for healthcare applications. Chapter Six examines the electronic properties of polyvinylpyrrolidone (PVP) and its monomer using the Semi-Empirical Zerner Modified Intermediate Neglect of Differential Overlap (ZINDO) method of INDO/1 as a parameterization. Chapter Seven investigates the adhesion of the Legionella Pneumophila bacteria to the surfaces of plumbing materials.

HB 9781536108927 £238.50 January 2017 Nova Science Publishers 180 pages 155x230mm

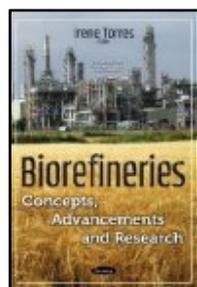


## Analytical Models of Thermal Stresses in Anisotropic Composite Materials (Materials Science & Technologies Series)

Ladislav Ceniga

This book presents analytical models of thermal stresses in two- and three-component composites with anisotropic components. Within the analytical modelling, the two- and three-component composites are replaced by a multi-particle-matrix and multi-particle-envelope-matrix systems, respectively. These model systems consist of anisotropic spherical particles (either without or with an envelope on the particle surface), which are periodically distributed in an anisotropic infinite matrix. The thermal stresses that originate below the relaxation temperature during a cooling process are a consequence of the difference in dimensions of the components. This difference is a consequence of different thermal expansion coefficients and/or a consequence of the phase-transformation induced strain, which is determined for anisotropic crystal lattices. The analytical modelling results from mutually different mathematical procedures, which are applied to fundamental equations of solid continuum mechanics (Hooke's law for an anisotropic elastic solid continuum, Cauchy's law, and compatibility and equilibrium equations).

HB 9781536110647 £90.50 January 2017 Nova Science Publishers 180 pages 155x230mm



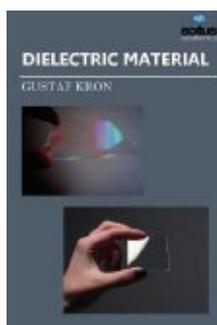
## Biorefineries

### Concepts, Advancements & Research (Petroleum Science & Technology Series)

Edited by Irene Torres

Biorefineries are the adaptation of the petroleum refinery scheme into a biomass-based production scheme. They comprise of a number of specialised methods used to extract the most out of primary and/or secondary metabolic products. This book provides new research on biorefineries. Chapter One reviews downstream recovery of microalgal bioproducts with highlights on biorefineries. Chapter Two focuses on small-scale biorefineries. Chapter Three studies biobutanol as a platform for future biorefineries.

PB 9781536107081 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm

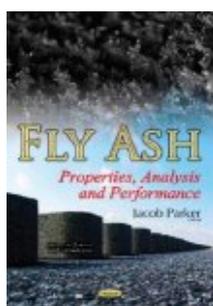


## Dielectric Material (Electrical & Electronics Engineering Series)

Gustaf Kron

A dielectric material is an electrical insulator that can be polarised by an applied electric field. Dielectrics are insulators, plain and simple. The two words refer to the same class of materials, but are of different origin and are used preferentially in different contexts. The plastic coating on an electrical cord is an insulator. The glass or ceramic plates used to support power lines and keep them from shorting out to the ground are insulators. Pretty much anytime a nonmetallic solid is used in an electrical device it's called an insulator. Perhaps the only time the word dielectric is used is in reference to the non-conducting layer of a capacitor. When a dielectric is placed in an electric field, electric charges do not flow through the material as they do in a conductor, but only slightly shift from their average equilibrium positions causing dielectric polarisation. Because of dielectric polarisation, positive charges are displaced toward the field and negative charges shift in the opposite direction. This creates an internal electric field that reduces the overall field within the dielectric itself. If a dielectric is composed of weakly bonded molecules, those molecules not only become polarised, but also reorient so that their symmetry axes align to the field.

HB 9781681172910 £160.99 January 2017 Scitus Academics 318 pages 155x230mm illus



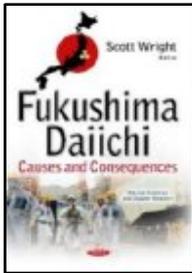
## Fly Ash

### Properties, Analysis & Performance (Materials Science & Technologies Series)

Edited by Jacob Parker

Coal fly ash (CFA) is one of the most complex anthropogenic materials. It is estimated that only about 20 to 30% of the globally generated fly ash is employed and utilised in building materials mainly as an additive in cement, concrete, and structural filling as well as in small scale production of zeolite. This book provides new research on the characteristics, uses and performance of fly ash.

HB 9781536105162 £185.99 January 2017 Nova Science Publishers 253 pages 155x230mm

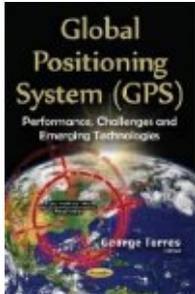


## **Fukushima Daiichi Causes & Consequences (Nuclear Materials & Disaster Research Series)**

Edited by Scott Wright

On 11 March 2011, the Great East Japan earthquake (GEJE) caused huge tsunamis up to 40 meters, killing 18,500 residents. The earthquake knocked out the Northern Japan Power Grid, while the resulting tsunamis disabled electric power supplies at Tokyo Electric Power Co. (TEPCO) Fukushima Daiichi (FD) six-unit nuclear power plant causing a nuclear emergency. Presents research on the causes and resulting consequences of the Fukushima Daiichi Nuclear Power Plant.

PB 9781536105971 £78.50 January 2017 Nova Science Publishers 90 pages 155x230mm

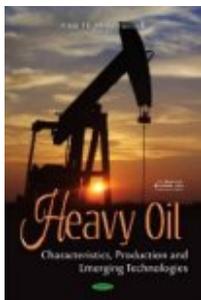


## **Global Positioning System (GPS) Performance, Challenges & Emerging Technologies (Electronics & Telecommunications Research Series)**

Edited by George Torres

The Global Positioning System (GPS) is used extensively in both the military and civilian communities for diverse activities, such as navigation, surveying, remote sensing, asset management and precise timing. Ionospheric scintillations are rapid variations in the amplitude and phase of transionospheric radio signal which affect the accuracy and reliability of GPS systems. Provides new research on performance, challenges and emerging technologies of Global Positioning Systems.

PB 9781536107449 £78.50 January 2017 Nova Science Publishers 106 pages 155x230mm

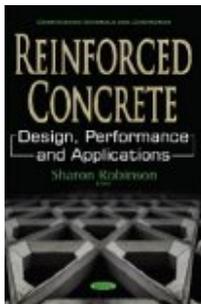


## **Heavy Oil Characteristics, Production & Emerging Technologies (Petroleum Science & Technology Series)**

Edited by Amir H Mohammadi

Heavy oil is a crude oil of typically less than 20°API gravity and higher than 200 cp (centipoise) viscosity at reservoir conditions. It is characterised by a viscous, dense, and asphaltic nature. Heavy oil reservoirs are considered as some of the world's largest reserves. Extraction, recovery, and production of heavy oil are the main challenges in the heavy oil industry. This book provides current research on heavy and crude oils.

HB 9781536108521 £219.50 January 2017 Nova Science Publishers 230 pages 155x230mm

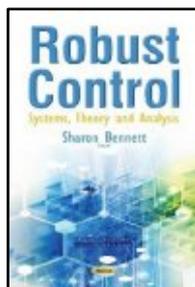


## **Reinforced Concrete Design, Performance & Applications (Construction Materials & Engineering Series)**

Edited by Sharon Robinson

Concrete is one of the most used materials in the construction industry. In structural systems, the combination of concrete and steel reinforcement bars gives rise to reinforced concrete (RC), which is widely applied in the civil engineering field due to its adequate mechanical strength, durability, and fire resistance. Steel-rebar reinforced structures are subjected to structural deterioration when subjected to extreme loadings such as earthquake, fire, impact loadings and cyclic loading, consequently reducing the expected life and performance of structures. To enhance the structural performance, the RC structures are usually retrofitted or strengthened.

PB 9781536107524 £90.50 January 2017 Nova Science Publishers 174 pages 155x230mm



## **Robust Control Systems Theory & Analysis (Mechanical Engineering Theory & Applications Series)**

Edited by Sharon Bennett

The Robust Control Theory involves powerful methods for analysis and design of control systems in presence of signal and parameter uncertainties. In this book, Chapter One reviews issues related to the design and practical implementation of high order robust controllers. Chapter Two deals with multi-objective disturbance attenuation control and filtering problems for disturbances from different classes. Chapter Three discusses a robust control design for general switched affine control systems. Chapter Four presents a PID control scheme for a synchronous motor with permanent magnets.

HB 9781536108262 £90.50 January 2017 Nova Science Publishers 150 pages 155x230mm

# **ENVIRONMENT**

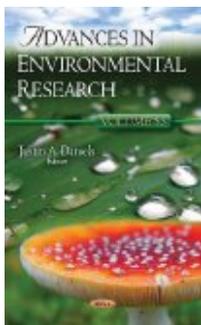


## **Advances in Environmental Research Volume 54 (Advances in Environmental Research Series)**

Edited by Justin A Daniels

CONTENTS: Impact of Cyclone Sidr on Rural Communities: A Socio-Economic Analysis; Impact of the Leaf Beetle Herbivory on Ragweed; Seed Dispersal Systems in the Regeneration of Semiarid Mediterranean Forests; Adaptive Forest Management Practices Promoting Resilience of Oak Forests to Future Climate Change; Metal & Metalloids in Sediments from the Estuary of the Nerbioi-Ibaizabal River: Evolution in Time (2005-2014); Transitory Interruption of the Suess Effect During the 1990s: A 25-Year-Long Study Using Tree-Ring <sup>13</sup>C Records from Spanish Forests; Index.

HB 9781536106671 £235.50 January 2017 Nova Science Publishers 200 pages 155x230mm

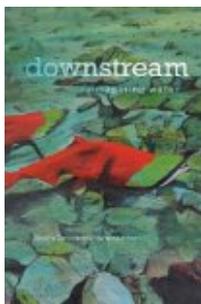


## **Advances in Environmental Research** **Volume 55 (Advances in Environmental Research Series)**

Edited by Justin A Daniels

CONTENTS: Preface; Advances in the Life Cycle Assessment of Biorenewable Technologies; The Life Cycle Assessments of an Optical Network Terminal & a Tablet: Experiences of the Product Environmental Footprint Methodology; Service Life, Reliability & Their Role in the Life Cycle Analysis of Concrete Structures; The Land-Use Changes & Site Variables on the Soil Organic Carbon Pool: The Potential Application for the MENA Region; Characterization of Biliary Caseinolytic Proteases in Two Environmental Contamination Sentinel Fish Species with an Emphasis on Metalloproteinases; Worse than a Tiger's Grip: The Case of Household Water Supply & Sanitation Practices in Osogbo Nigeria; Corporate Reporting on Climate Change & Global Warming Issues: A Literature Survey & Agenda for Future Research; Gender Justice in International Environmental Law; Index.

HB 9781536108880 £238.50 January 2017 Nova Science Publishers 228 pages 180x260mm

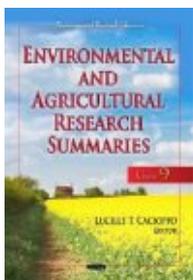


## **downstream** **reimagining water**

Edited by Dorothy Christian & Rita Wong

This book brings together artists, writers, scientists, scholars, environmentalists, and activists who understand that our shared human need for clean water is crucial to building peace and good relationships with one another and the planet. The book explores the key roles that culture, arts, and the humanities play in supporting healthy water-based ecology and provides local, global, and Indigenous perspectives on water that help to guide our societies in a time of global warming. The contributions range from practical to visionary, and each of the four sections closes with a poem to encourage personal freedom along with collective care.

PB 9781771122139 £26.99 June 2016 Wilfrid Laurier University 307 pages 155x230mm 28 colour illus

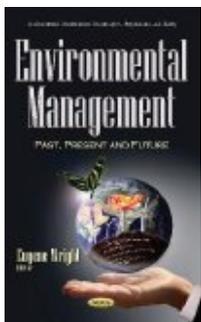


## **Environmental & Agricultural Research Summaries (with Biographical Sketches)** **Volume 9 (Environmental & Agricultural Research Summaries Series)**

Edited by Lucille T Cacioppo

This book compiles research summaries from a number of different focuses in the important field of environment and agriculture.

HB 9781536114164 £219.50 January 2017 Nova Science Publishers 433 pages 180x260mm

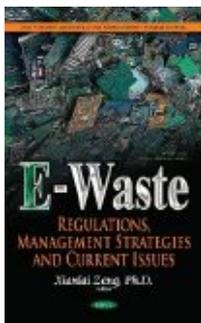


## **Environmental Management** **Past, Present & Future** **(Environmental Remediation Technologies, Regulations & Safety Series)**

Edited by Eugene Wright

Most countries have adopted new regulations and economic instruments to support environmental sustainability; at the same time, many organisations have adopted environmental policies and management tools such as the Environmental Management System (EMS). This book reviews the past, present and future of environmental management. It combines a review of differential game models of the ecological-economic systems and respective analytical techniques with original results in game theoretic modelling of the sustainable environmental management; summarises the results derived from four surveys conducted in Italy from 2008 to 2015, that involved the Italian ISO 14001 certified organisations in exploring their interest on the adoption of other environmental tools and labels; presents a holistic framework for analysing, assessing and improvement of environmental management in agriculture, and assesses the forms, factors and efficiency of agro-eco-management in Bulgaria during post-communist transition, European integration, and EU CAP implementation.

HB 9781536108002 £90.50 January 2017 Nova Science Publishers 165 pages 155x230mm

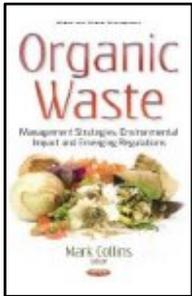


## **E-Waste** **Regulations, Management Strategies & Current Issues** **(Waste & Waste Management Series)**

Edited by Xianlai Zeng

E-waste management has become the top global issue in terms of environmental protection and resource recycling. Although many attempts have been carried out to address the issue, many problems remain. This book contains seven chapters that not only review the history of e-waste management and summarize the achievement of technology and regulation, but also present some of the latest research in these areas involving e-waste generation, extended producer responsibility, and recycling process. Finally, the book reveals the way to solve the global e-waste problem from academic research to national practices. At the research level, the way forward is proposed in three aspects; these include fundamental knowledge, recycling technology, and eco-design. At the practice level, four methods can be prospected for different types of countries and/or regions. Regarding most developed nations, EPR has been adopted to ensure the adequate collection of e-waste. With respect to most developing countries, legislation improving and collection channel strengthening will significantly contribute to e-waste recycling.

HB 9781536106046 £90.50 January 2017 Nova Science Publishers 170 pages 155x230mm

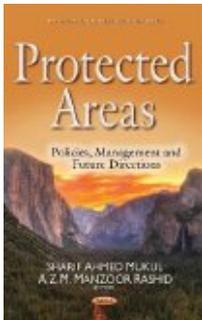


**Organic Waste  
Management Strategies, Environmental Impact & Emerging Regulations  
(Waste & Waste Management Series)**

Edited by Mark Collins

The accumulation of solid organic waste is thought to be reaching critical levels in almost all regions of the world. Organic waste needs to be managed in a sustainable way to avoid depletion of natural resources, minimise risk to human health, reduce environmental burdens and maintain an overall balance in the ecosystem. This book reviews different management strategies for organic waste, as well as its environmental impact and regulations that have emerged.

HB 9781536109207 £90.50 January 2017 Nova Science Publishers 175 pages 155x230mm

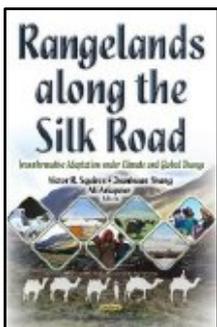


**Protected Areas  
Policies, Management & Future Directions  
(Wildlife Protection, Destruction & Extinction Series)**

Edited by Sharif Ahmed Mukul & A Z M Manzoor Rashid

Establishment of a protected area (PA) is a key global conservation strategy aimed to protect the Earth's imperiled biodiversity and ecosystems. Globally, PA networks now cover nearly 15% of the terrestrial ecosystem. Despite the importance of PAs in protecting declining biodiversity and unique ecosystems, many of them are in critical condition due to poor governance, thus functioning below the expected level. Moreover, in many developing countries, the PA coverage is lower than the global standard. Recognising their contemporary role in conservation, governments have recently agreed to expand the global PA coverage to 17% by the year 2020 (Aichi Target 11). This book with case studies from around the world and provides an overview of PA governance, institutional mechanisms, conservation benefits, limitations and challenges associated with their respective policy discourse, integrated management, and functional attributes. Protected areas will continue to play an important role in conservation and protection of biodiversity and wild habitats, particularly in countries where population pressure and habitat loss are high. Regular intervention, political commitment, and effective governance are essential for the sustainability of PAs across the globe. In this book, we also attempted to shed some light on future developmental clues for the sustainable management and monitoring of PAs worldwide.

HB 9781536106640 £152.50 January 2017 Nova Science Publishers 200 pages 155x230mm

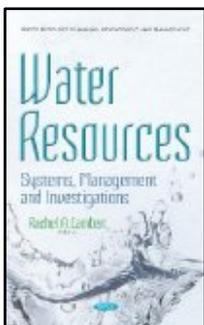


**Rangelands Along the Silk Road  
Transformative Adaptation Under Climate & Global Change  
(Environmental Research Advances Series)**

Edited by Victor Roy Squires, Shang Zhan-Huan & Ali Ariapour

This multi-author book by experts in Central Asia draws together the key issues that confront the peoples of these lands as the New Silk Road takes shape. The Editors provide an overview of information and background about rangelands, grasslands and pasturelands in nine Silk Road countries as well as their productivity and ecological function. The authors discuss the status, future prospects and strategies to achieve sustainable management of rangelands and grasslands in the context of the infrastructure developments and other New Silk Road building activities in Central Asia. They identify problems and hazards associated with global change, including climate change in Silk Road countries. This book will act as a vehicle to promote knowledge useful for managing rangelands, grasslands and pasture lands along the Silk Road, from Mongolia in the East to Iran in the West. The focus of the authors' is on the extensive rangelands and grasslands, as well as the peoples whose livelihoods depend on the development of sustainable land management. In particular, they analyse and provide commentary of the transformative adaptations that are required if the Silk Road and its inhabitants are to survive into the twenty-second century and beyond.

HB 9781536106039 £219.50 January 2017 Nova Science Publishers 390 pages 180x260mm

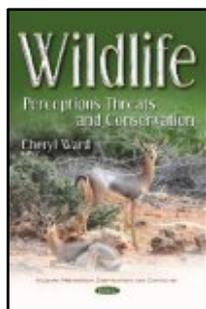


**Water Resources  
Systems, Management & Investigations  
(Water Resource Planning, Development & Management Series)**

Edited by Rachel A Lambert

This book provides new research on water resources. Chapter One discusses water resource management and intelligent monitoring systems for reservoirs. Chapter Two describes actions applied to the management of water resources in the region of La Plata in Argentina. Chapter Three analyses the physico-chemical characteristics of natural waters in a drainage system of northern Xinjiang (Central Asia) to provide additional information to the readers on the chemical evolution and recharge mechanism of natural waters in an arid environment. Chapter Four reviews flow alterations and then employs a modeling system and databases for the river systems of Texas to investigate characteristics of river flows and long-term impacts thereto resulting from development and other causative factors.

PB 9781536109764 £90.50 January 2017 Nova Science Publishers 90 pages 155x230mm

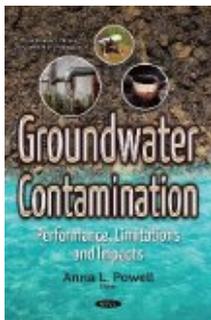


**Wildlife**  
**Perceptions, Threats & Conservation**  
**(Wildlife Protection, Destruction & Extinction Series)**  
Edited by Cheryl Ward

This book provides new research on the perceptions, threats and conservation of wildlife. Chapter One reviews the distribution of Arabian gazelles on Farasan Islands. Chapter Two studies forest native and non-native plant species along an elevational gradient in a western Himalayan reserve. Chapter Three intertwines the socially constructed meaning of the wild horse with that of protected areas. Chapter Four focuses on bat conservation.

PB 9781536110425 £78.50 January 2017 Nova Science Publishers 94 pages 155x230mm

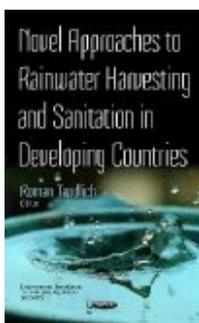
## ENVIRONMENTAL SCIENCE



**Groundwater Contamination**  
**Performance, Limitations & Impacts**  
**(Water Resource Planning, Development & Management Series)**  
Edited by Anna L Powell

Groundwater contamination is nearly always the result of human activity. In areas where population density is high and human use of the land is intensive, ground water is especially vulnerable. Virtually any activity whereby chemicals or wastes may be released to the environment, either intentionally or accidentally, has the potential to pollute groundwater. When groundwater becomes contaminated, it is difficult and expensive to clean up. This book focuses on the performance, limitations and impacts of groundwater contamination.

PB 9781536110036 £78.50 January 2017 Nova Science Publishers 142 pages 155x230mm

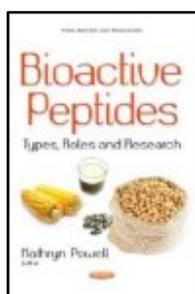


**Novel Approaches to Rainwater Harvesting & Sanitation in Developing Countries**  
**(Environmental Remediation Technologies, Regulations & Safety Series)**  
Edited by Roman Tandlich

Rainwater harvesting has gained popularity as a measure to address the water supply shortage in rural areas in developing countries. The harvesting systems are installed in households and public buildings. They vary from above-ground to below-ground and provide water from domestic use (cooking, drinking, laundry, etc.) to non-potable purposes such as irrigation. To date, a lot of research has focused on the development of treatment technologies, and public health studies have elucidated the risk from microbial contamination. However, this has only happened in some areas worldwide and a lot of areas (such as the African continent) studies the microbial water quality and treatment options at the household level. Additionally, the modelling of storage and demand management is missing. The current publication addresses this knowledge gap partially. A similar approach is adopted for the processing and reuse of faecal sludge from ventilated improved pit latrines. A review of the current options is presented in this book, focusing on the treatment, knowledge and public health risks.

HB 9781634858267 £152.50 January 2016 Nova Science Publishers 145 pages 155x230mm

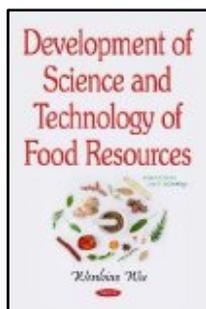
## FOOD / BEVERAGE TECHNOLOGY



**Bioactive Peptides**  
**Types, Roles & Research (Food Science & Technology Series)**  
Edited by Kathryn Powell

Bioactive peptides are small peptides composed of between 3 to 20 amino acid residues. Plant and animal food proteins are a source of a big number of bioactive peptides. These peptides have different uses within the pharmaceutical, medical, cosmetic, and food industries. In science literature, peptides from food proteins are reported to have biological activities such as antimicrobial, antioxidant, antitumoral, anti-inflammatory, antiviral, opiate, antithrombotic, and anti-hypertensive activities. This book reviews the types, roles and recent research of bioactive peptides.

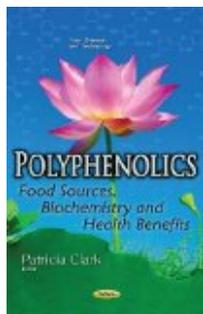
PB 9781536109733 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm



**Development of Science & Technology of Food Resources**  
**(Food Science & Technology Series)**  
Wenbiao Wu

This monograph discusses systematic knowledge related to the science and technology of sustainable food resources. The book is written principally based on the author's own research results that have been published in scientific journals and academically specialized books. The knowledge introduced in the book should be very useful for farmers, food resources' production enterprises, governmental administrators who are involved in making food policies, or scientists who are interested in developing sustainable food resources and their production systems. This monograph could also be used as a textbook for students intending to work with sustainable food resources.

HB 9781536105919 £185.99 January 2017 Nova Science Publishers 270 pages 180x260mm



## Polyphenolics

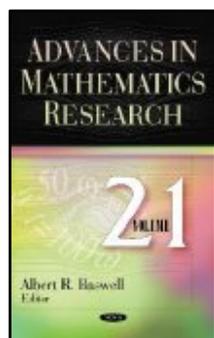
### Food Sources, Biochemistry & Health Benefits (Food Science & Technology Series)

Edited by Patricia Clark

Polyphenolic compounds are part of a division of secondary metabolites with high antioxidant capacity, found naturally in most edible and inedible plants. These compounds are responsible for pigmentation and plants defense of pathogens agents. Its molecular structure includes phenolic hydroxyl groups and aromatic rings. Polyphenols are increasingly studied because of the benefits to human health, introducing the ability to eliminate free radicals generated by oxidation, reducing risk of cancer, anti-aging, anti-diabetic, among others. This book provides new research on food sources of polyphenolic compounds, and their biochemistry and health benefits.

PB 9781536107098 £90.50 January 2017 Nova Science Publishers 132 pages 155x230mm

## MATHEMATICS



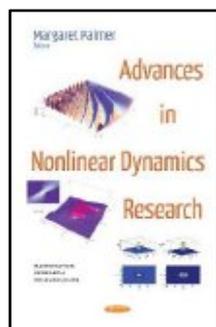
## Advances in Mathematics Research

### Volume 21 (Advances in Mathematics Research Series)

Edited by Albert R Baswell

Each article has been carefully selected in an attempt to present substantial research results across a broad spectrum. Topics include modern works in the field of mathematical modeling of intracellular processes; the improvement of Bezier basis function efficiency in object surface modeling; performance evaluation of simultaneous coding of scatter matrices in Two-Dimensional Linear Discriminant Analysis; the differential inequalities that make it possible to build a global theory of pseudoholomorphic functions in the case of one or several complex variables; and recent advances on short interest rate models which can be formulated in terms of a stochastic differential equation for the instantaneous interest rate or a system of such equations in case the short rate is assumed to depend on other stochastic factors.

HB 9781536104707 £238.50 January 2017 Nova Science Publishers 122 pages 155x230mm



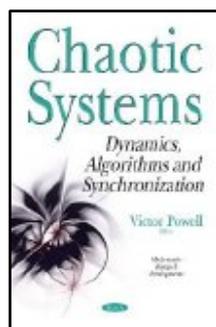
## Advances in Nonlinear Dynamics Research

### (Mathematics Research Developments Series)

Edited by Margaret Palmer

This book provides new research on the advances in non-linear dynamics. Chapter One studies compactness in carbon nanotube arrays. Chapter Two reviews the elastic and plastic type behaviours in the Fractal Theory of Motion at nanoscale. Chapter Three analyses a particular model of tumour progression, assuming that the invasive cells, the connective tissue and the proteases are moving through a non-differential medium governed by the Non-Standard Scale Relativity Theory (NSRT) (Scale Relativity Theory with arbitrary constant fractal dimension). Chapter Four studies the process of drug release from a polymer matrix. Chapter Five examines the implications of drug release from a polymeric matrix process. Chapter Six reviews behaviours of travelling waves and Shapiro step types in a tumour-growth model. Chapter Seven discusses the astonishing evolutionary dynamics of a class of nonlinear discrete 2D pattern formations and growth models.

HB 9781536107401 £185.99 January 2017 Nova Science Publishers 266 pages 155x230mm



## Chaotic Systems

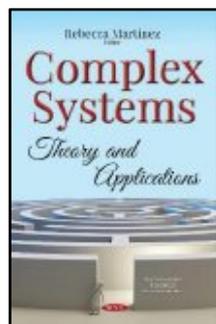
### Dynamics, Algorithms & Synchronization

### (Mathematics Research Developments Series)

Edited by Victor Powell

This book provides new research on the dynamics, algorithms and synchronisation of chaotic systems. Chapter One introduces some nonlinear techniques for the synchronization of a class of chaotic oscillator under the framework of observer design from control theory. Chapter Two discusses in detail the application of a novel multi-domain spectral collocation approach for finding solutions of ordinary differential equations that exhibit general chaotic behaviour. Chapter Three designs an adaptive state feedback controller guaranteeing the asymptotic stability followed by the synchronisation of the nonlinear discrete-time error of two identical hyper chaotic systems.

PB 9781536110654 £78.50 January 2017 Nova Science Publishers 107 pages 155x230mm



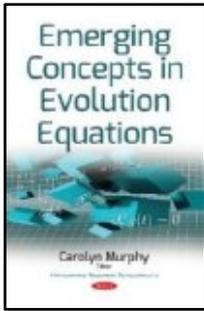
## Complex Systems

### Theory & Applications (Mathematics Research Developments Series)

Edited by Rebecca Martinez

This books provides new research on the theories and applications of complex systems. Chapter One reviews the process algebra approach to quantum electrodynamics. Chapter Two describes a specific aspect of complex systems and the fact that they may consist of established subsystems or components that originate from converging industries. Chapter Three examines the development of the generalised nonlinear Schrödinger equation of rotating cosmogonical body formation. Chapter Four analyses the application of neural network modeling in organising a hierarchical teaching system based on mentorship. The final chapter presents two methods to evaluate the collaborative potential of a network of 16 organisations and identifies measures to promote their coordination.

PB 9781536108606 £90.50 January 2017 Nova Science Publishers 100 pages 155x230mm

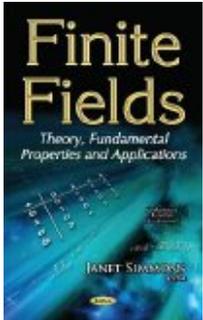


## Emerging Concepts in Evolution Equations (Mathematics Research Developments Series)

Edited by Carolyn Murphy

This book reviews new research and analyses emerging concepts in evolution equations. Chapter One discusses the evolution equation of Lie-type for finite deformations, and its time-discrete integration. Chapter Two presents a review of recent results on group analysis of nonlinear evolution equations in one spatial variable. Chapter Three addresses the problem of exponential stabilisation of a class of 1-D PDEs with Dirichlet boundary control.

PB 9781536108613 £78.50 January 2017 Nova Science Publishers 80 pages 155x230mm

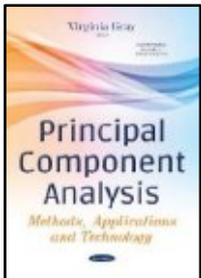


## Finite Fields Theory, Fundamental Properties & Applications (Mathematics Research Developments Series)

Edited by Janet Simmons

This book provides new research in finite fields. Chapter One presents some techniques that rely on a combination of results from graph theory, finite fields, matrix theory, and finite geometry to researchers working in the area of preserver problems. It also gives a brief presentation of this research field to other mathematicians. Chapter Two contains a basic and self-contained introduction to classical coherent state transforms, namely classical wavelet and classical wave-packet transforms, on finite fields. Chapter Three proposes an intrinsic representation of finite  $m\theta$  extension as this is a tradition for finite extension fields. Chapter Four reviews  $m\theta$  cyclic codes on a  $m\theta$  field. Chapter Five discusses two problems of Carlitz and their generalisations.

PB 9781536103854 £90.50 January 2017 Nova Science Publishers 125 pages 155x230mm

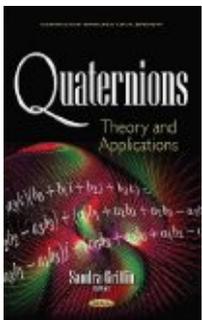


## Principal Component Analysis Methods, Applications & Technology (Mathematics Research Developments Series)

Edited by Virginia Gray

This book provides new research on principal component analysis (PCA). Chapter One introduces typical PCA applications of transcriptomic, proteomic and metabolomic data. Chapter Two studies the factor analysis of an outcome measurement survey for science, technology and society. Chapter Three examines the application of PCA to performance enhancement of hyperspectral radiative transfer computations.

PB 9781536108897 £78.50 January 2017 Nova Science Publishers 130 pages 155x230mm

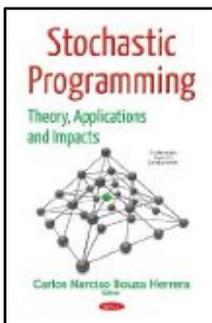


## Quaternions Theory & Applications (Mathematics Research Developments Series)

Edited by Sandra Griffin

Focuses on the theory and applications of quaternions. Chapter One collects some old problems on lattice orders and directed partial orders on complex numbers and quaternions, and summarises recent development in answering those questions. Chapter Two discusses spin 1 particles with anomalous magnetic moments in the external uniform electric field. Chapter Three examines techniques of projective operators used to construct solutions for a spin 1 particle with anomalous magnetic moment in the external uniform magnetic field. Chapter Four analyses the implementation of a cheap Micro AHRS (Attitude and Heading Reference System) using low-cost inertial sensors. Chapter Five reviews the basic concepts of quaternion and reduced biquaternions algebra. It introduces the 2D Hermite-Gaussian functions (2D-HGF) as the eigenfunction of discrete quaternion Fourier transform (DQFT) and discrete reduced biquaternion Fourier transform (DRBQFT), and the eigenvalues of two dimensional Hermite-Gaussian functions for three types of DQFT and two types of DRBQFT. Chapter Six investigates a leader-follower formation control problem of quadrotors.

HB 9781536107685 £90.50 January 2017 Nova Science Publishers 190 pages 155x230mm

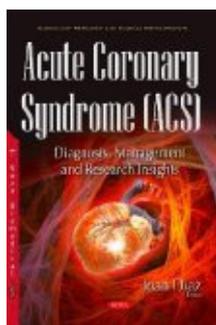


## Stochastic Programming Theory, Applications & Impacts (Mathematics Research Developments Series)

Edited by Carlos Narciso Bouza Herrera

This book is concerned with fostering theoretical issues on stochastic programming and discussing how it can solve real life problems. The book presents applications which solve the optimisation of concrete problems in electricity markets, market equilibria, resource markets and environments. Each chapter presents a survey on the main results concerned with its contents, and discusses their impact by illustrating how they are applicable in real life. The authors use concrete, real life problems and simulation-motivated experiments for illustrating the behavior of the stochastic models discussed. The target audience for this title is graduate students or researchers in optimisation, approximation, statistics, operations research and computing, as well as professionals dealing with applications where uncertainty may be modeled by using stochastic optimisation and academics. The contributors are well-known specialists in stochastic programming.

PB 9781536109405 £78.50 January 2017 Nova Science Publishers 153 pages 155x230mm

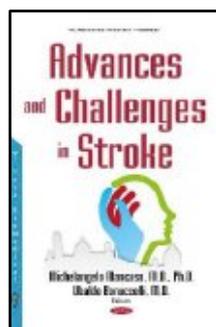


**Acute Coronary Syndrome (ACS)  
Diagnosis, Management & Research Insights  
(Cardiology Research & Clinical Developments Series)**

Edited by Joan Diaz

Acute coronary syndrome (ACS) encompasses a spectrum of clinical entities, ranging from unstable angina (UA), non-ST-segment elevation myocardial infarction (NSTEMI) to ST-elevation myocardial infarction (STEMI). This book analyses new research on the diagnosis and management of ACS. The first chapter reviews ethnic and gender differences in the diagnosis, risk factors and management of a multi-ethnic population in Malaysia. Chapter Two summarises data from available studies conducted over the past last 30 years about pharmacologic reperfusion therapy including comparison with primary angioplasty. Chapter Three discusses the up-to-date studies that have investigated consent in cardiology.

PB 9781536108033 £78.50 January 2017 Nova Science Publishers 95 pages 155x230mm

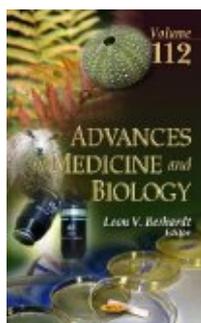


**Advances & Challenges in Stroke  
(Cardiology Research & Clinical Developments Series)**

Edited by Michelangelo Mancuso

Stroke, a brusque interruption of blood supply in an area of the brain, has a sudden and frequently devastating impact on both patients and their families. Although stroke is most common in older people, it can occur in individuals of any age, including young adults and children. Fortunately, the prospects for preventing and treating stroke are far better than they were just a few decades ago. However, a lot of challenges await physicians and researchers in terms of prevention, pathogenesis and treatment. Stroke remains a high priority medical condition for our society; globally, about 15 million people suffer of cerebrovascular diseases, with stroke being the most frequent life-threatening neurological disease and the third cause of death and disability. The authors hope to guide readers through the complexity of stroke pathogenesis, from the molecular basis to the most recent advances in terms of pathophysiological cascade leading to cell death.

HB 9781634856898 £219.50 January 2017 Nova Science Publishers 320 pages 180x260mm

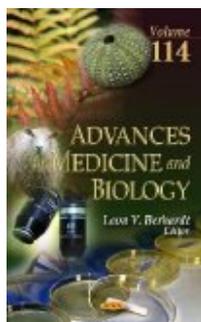


**Advances in Medicine & Biology  
Volume 112 (Advances in Medicine & Biology Series)**

Edited by Leon V Berhardt

The chapters in this volume present the latest developments in medicine and biology. Chapter One describes the oxidative stress in disease and health, as well as the action of classic and new antioxidants. Chapter Two examines an investigation by big data analysis of the Urban Heat Island (UHI) effect on human health problems. Chapter Three provides a literature review of the associations between sedentary behaviour and health-related outcomes in Japan. Chapter Four assesses non-specific chronic low back pain and reviews management strategies. Chapter Five studies scleroderma and its mythological background. Chapter Six reviews the possible mechanisms of 5-HT and their metabolites as common protectors against oxidative stress produced by animal venoms. Chapter Seven focuses on the effect of broad bean true mosaic virus (BBTMV) and salicylic acid (SA) treatments on the concentrations of photosynthetic pigments, total phenolics content, protein contents and the yield of susceptible and tolerance broad bean cultivars. Chapter Eight reviews the photochemical (photooxidative) activity of xanthone itself and the preventive effect of xanthone derivatives on photosensitised DNA damage.

HB 9781536106251 £238.50 January 2017 Nova Science Publishers 200 pages 155x230mm

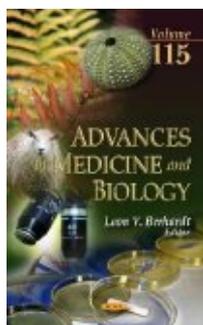


**Advances in Medicine & Biology  
Volume 114 (Advances in Medicine & Biology Series)**

Edited by Leon V Berhardt

The chapters in this volume present the latest developments in medicine and biology. Chapter One focuses on the synthesis of bisphosphonates and its biomedical applications. Chapter Two reviews polymeric nano-vectors based siRNA delivery. Chapter Three discusses the use of thrombophilia and pharmacological throboprophylaxis screening in women. Chapter Four provides insights into Geobacillus species through an overview of the model strain HTA426. Chapter Five examines how glycans provide molecular recognition motifs which regulate endoplasmic protein folding, transport, lysosomal targeting, and also how they are used by pattern recognition receptors in pathogen surveyance and innate immunity. Chapter Six discusses the effect of dehydroepiandrosterone (DHEA) on diabetes, obesity, and atherosclerosis. Chapter Seven discusses the various classifications, clinical features, diagnosis, and management options of juvenile idiopathic arthritis (JIA). Chapter Eight studies several surgical approaches for knee arthroplasty with their relevant advantages and disadvantages.

HB 9781536107364 £235.50 January 2017 Nova Science Publishers 224 pages 155x230mm

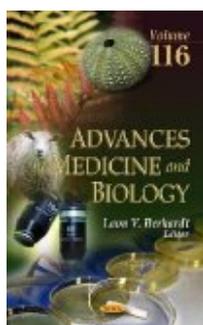


## **Advances in Medicine & Biology** **Volume 115 (Advances in Medicine & Biology Series)**

Edited by Leon V Berhardt

The chapters in this volume present the latest developments in medicine and biology. Chapter One studies Kleine-Levin syndrome. Chapter Two reviews stress, hypothalamic–pituitary–adrenal dysfunction, inflammation, and psychomotor disability in preterm birth infants. Chapter Three discusses the cellular and molecular basis of fibrogenesis. Chapter Four examines the role of ocular melanin, melanosomes and melanocytes in eye functionality. Chapter Five focuses on hypopituitarism especially on the clinical feature, pathogenesis, and treatment of these novel conditions of hypophysitis. Chapter Six discusses benign and malignant anorectal pathology. Chapter Seven analyses the medical and surgical management of haemorrhoids. Chapter Eight introduces and reviews computer aided drug designing. Chapter Nine discusses the occurrence and risk assessment of organochlorine pesticides in seafood. Chapter Ten gathers and describes information about trans fats and their regulation in Mexico in over the last ten years. Chapter Eleven analyses the legislation, consumption and potential replacement solutions of trans fat in Argentina.

HB 9781536108354 £238.50 January 2017 Nova Science Publishers 210 pages 155x230mm

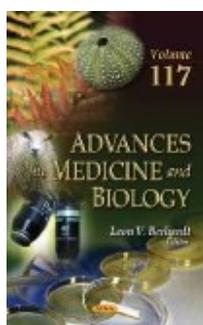


## **Advances in Medicine & Biology** **Volume 116 (Advances in Medicine & Biology Series)**

Edited by Leon V Berhardt

The chapters in this volume present the latest developments in medicine and biology. Chapter One reviews on m-Health in prehospital emergency medicine. Chapter Two analyses regional telemedicine network for the diagnosis and care of cardiac malformations. Chapter Three describes a computational fluid dynamic (CFD) approach with the aim to simulate the flow of blood with cardiac pulse through the aorta artery with aneurysm disease. In Chapter Four, a CFD study was carried out for real geometries of one specific patient and was resolved numerically the Navier-Stokes equations for the blood flow in abdominal aortic aneurysms with a pulsatile inlet condition in the ascending aorta. Chapter Five reviews a CFD of the blood flow using pulsatile inlet condition in the ascending aorta with aneurysm disease. Chapter Six examines a CDF methodology in order to analyse the features of the pulsatile blood flow in patients with exovascular Stent Devices in abdominal aortic aneurysms. Chapter Seven focuses on hyponatremia in heart failure. Chapter Eight discusses neuroglial potassium channels in health and disease. Chapter Nine discusses the impact of preventing and treating periodontal and peri-implant inflammation on peri-implantitis risks reduction, and highlights the importance of managing periodontal and early peri-implant biological complications in order to prevent occurrence or progression of peri-implantitis. Chapter Ten studies the application of direct analysis in real time mass spectrometry on designer drug identification. Chapter Eleven reviews current understanding of tick antioxidant defense with emphasis on its potential as a target for tick and tick-borne pathogen control.

HB 9781634820028 £238.50 January 2017 Nova Science Publishers 215 pages 155x230mm

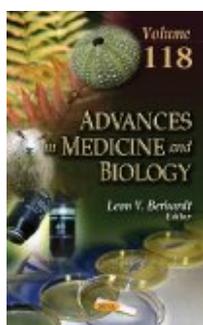


## **Advances in Medicine & Biology** **Volume 117 (Advances in Medicine & Biology Series)**

Edited by Leon V Berhardt

The chapters in this volume present the latest developments in medicine and biology. Chapter One discusses the utility of negative pressure therapy in the treatment of chronic resistant venous ulceration by reviewing the current available literature on this topic. Chapter Two reviews telemedicine in chronic respiratory diseases. Chapter Three focuses on the role of GABA/glycine in respiratory network formulation using knock-out mice with respiratory failure. Chapter Four investigates in vitro and in vivo studies of prolonged dehydroepiandrosterone (DHEA) and dehydroepiandrosterone sulfate (DHEAS) treatment. Chapter Five analyses superparamagnetic iron oxide nanoparticles (SPIONs) based magnetic hypothermia as a promising therapy in cancer treatment. Finally, Chapters Six and Seven discuss the prevalence, risk factors, potential complications, and psychological impacts of miscarriage and perinatal mortality.

HB 9781536108965 £238.50 January 2017 Nova Science Publishers 185 pages 155x230mm

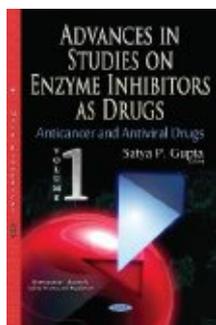


## **Advances in Medicine & Biology** **Volume 118 (Advances in Medicine & Biology Series)**

Edited by Leon V Berhardt

The chapters present the latest developments in medicine and biology. Chapter One researches recent topics in retinal ganglion cells. Chapter Two provides a review of acetylsalicylic acid resistance. Chapter Three analyses the effect of chlorogenic acid (CGA) on myocardial diseases. Chapter Four focuses on the role of diet in the composition and activity of gut microbiota. Chapter Five examines data on the Maillard reaction as a cause of stochastic damage in E. coli, and subsequently, of E. coli aging. Chapter Six studies haploinsufficient tumor suppressor genes. Chapter Seven discusses animal models of respiratory distress in neonates. Chapter Eight presents professional training in the work-up of bleeding disorders in women.

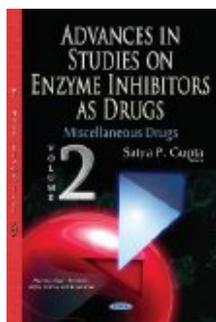
HB 9781536110104 £238.50 January 2017 Nova Science Publishers 236 pages 155x230mm



**Advances in Studies on Enzyme Inhibitors as Drugs**  
**Volume 1: Anticancer & Antiviral Drugs**  
**(Pharmacology -- Research, Safety Testing & Regulation Series)**  
Edited by Satya P Gupta

This book which is edited by eminent scientist Satya P. Gupta, covers the most recent development on design and discovery of the most useful drugs acting against several life threatening diseases such as cancer, viral infections and many others in two volumes. All of these drugs are based on inhibitions of various enzymes. Most human diseases are found to be associated with the overexpression of the enzymes. The book presents the structural aspects of various enzymes, their active sites, and the structural requirements of chemicals for strong interactions with enzymes. Volume One contains twelve chapters related to enzyme inhibitors acting as anticancer and antiviral drugs.

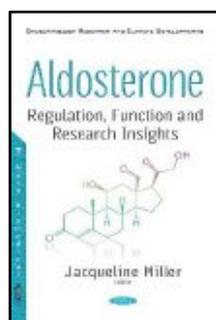
HB 9781536105049 £219.50 January 2017 Nova Science Publishers 340 pages 180x260mm



**Advances in Studies on Enzyme Inhibitors as Drugs**  
**Volume 2: Miscellaneous Drugs**  
**(Pharmacology -- Research, Safety Testing & Regulation Series)**  
Edited by Satya P Gupta

This book which is edited by eminent scientist Satya P. Gupta, covers the most recent development on design and discovery of the most useful drugs acting against several life threatening diseases such as cancer, viral infections and many others in two volumes. All of these drugs are based on inhibitions of various enzymes. Most human diseases are found to be associated with the overexpression of the enzymes. The book presents the structural aspects of various enzymes, their active sites, and the structural requirements of chemicals for strong interactions with enzymes. Volume Two contains chapters on enzyme inhibitors acting against miscellaneous diseases written by equally competent authors.

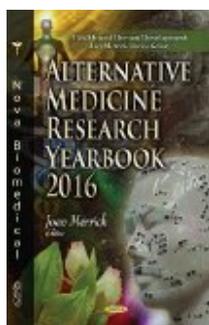
HB 9781536105056 £219.50 January 2017 Nova Science Publishers 330 pages 180x260mm



**Aldosterone**  
**Regulation, Function & Research Insights**  
**(Endocrinology Research & Clinical Developments Series)**  
Edited by Jacqueline Miller

This book focuses on the regulation, function and further research insights on aldosterone. Chapter One discusses the role of aldosterone in the causation of cardiac oedema and highlights areas for potential future research. Chapter Two reviews secondary arterial hypertension due to primary hyperaldosteronism. Chapter Three summarises the present knowledge about the role of aldosterone in stress adaptation with special emphasise to age-dependent changes. Chapter Four presents an overview of the effects of aldosterone, focusing on nongenomic actions in the kidney.

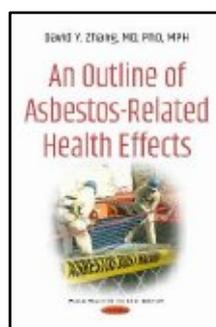
HB 9781536110432 £90.50 January 2017 Nova Science Publishers 170 pages 155x230mm



**Alternative Medicine Research Yearbook 2016**  
**(Health & Human Development Series)**  
Edited by Joav Merrick

Tropical diseases have become a prominent focus with the United Nations Millennium Development Goals and previously neglected diseases now have the funding for research. As a result there have been enormous leaps in our understanding of diseases, such as malaria and schistosomiasis. The hope of the United Nations has been to incorporate this research into clinical improvement for those impoverished by these diseases. In addition, interest in travel, rapid transportation of tourists and immigrants seeking education and employment as well as climate changes have made tropical diseases a worldwide phenomenon. In this yearbook we have several chapters on tropical diseases, but also some interesting chapters on mental health issues and holistic health from around the world.

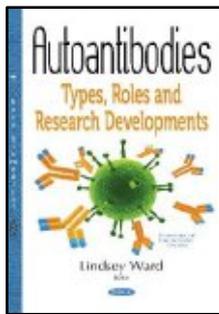
HB 9781536109726 £295.50 January 2017 Nova Science Publishers 520 pages 180x260mm



**An Outline of Asbestos-Related Health Effects**  
**(Public Health in the 21st Century Series)**  
David Y Zhang

Asbestos have been used in many different environments, including industrial and home construction projects, vehicles, railroads and shipyards, to name a few. Asbestos have significantly affected many lives, particularly individuals and their families who have experienced substantial direct or indirect occupational exposure to asbestos as well as asbestos-containing products and equipment. Many diseases and conditions are reported to have a direct or indirect causal link to asbestos exposure. This book summarises the historical background, current knowledge and advancements concerning asbestos and its related diseases in a simple, easy to understand and concise format. The first chapter covers asbestos mineralogy, industrial applications, occupational and environmental exposure as well as methods of fiber analysis. The second chapter focuses on asbestos pathogenesis, including asbestos levels in the environment and various worksites, the biological effects of asbestos fibers and factors determining its toxicity. The third chapter provides an overview of asbestos-related diseases such as asbestosis, pleural diseases, lung cancer and mesothelioma. Each section also includes a discussion of cause and causation, clinical presentation, pathology, diagnosis, treatment, prognosis and surveillance. The fourth chapter outlines the basic concepts of biostatistics and epidemiology, criteria in establishing the causal relationships, the occupational approach of environmental diseases and current standards and regulations.

PB 9781536109610 £78.50 January 2017 Nova Science Publishers 50 pages 155x230mm

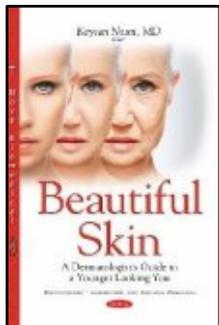


**Autoantibodies**  
**Types, Roles & Research Developments**  
**(Immunology & Immune System Disorders Series)**

Edited by Lindsey Ward

This book provides new research on types and roles of autoantibodies. Chapter One analyses autoantibodies in diabetes. Chapter Two discusses the role of autoantibodies towards TNF in patients with rheumatoid arthritis and bronchial asthma. Chapter Three examines new findings on immunoglobulin E in eosinophilic granulomatosis with polyangiitis.

PB 9781536109771 £78.50 January 2017 Nova Science Publishers 110 pages 155x230mm

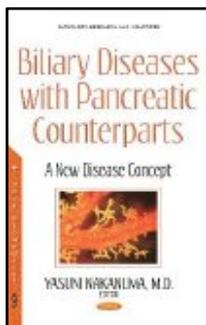


**Beautiful Skin**  
**A Dermatologist's Guide to a Younger Looking You**  
**(Dermatology -- Laboratory & Clinical Research Series)**

Edited by Keyvan Nouri

Although the concept of beauty has evolved through the years, beauty itself transcends all history and cultures to form a universal aspect of human civilization. Consequently, the cosmetic industry is growing in popularity, as people worldwide are seeking care from their board certified dermatologist and/or plastic surgeon to enhance their beauty. Cosmetics encompass a wide array of procedures, including anything from laser and light-based technology to chemical peels, makeup, and hair transplantation. Beautiful Skin: A Dermatologist's Guide to a Younger Looking You aims to provide accurate and relevant information to the general public, pertaining to the different cosmetic procedures frequently performed. In this digital age, people are often misled by inaccurate and biased information provided by some Internet sources. Therefore, the authors in this book explore the principles and relevant facts underlying every procedure, and work toward providing an educational description to the reader. This book is meant to fill any gap in knowledge for those who have questions that remain unanswered or for those who are simply curious to know more about beauty and the procedures they are undergoing. In doing so, it will assist patients in making informed decisions regarding the cosmetic care they receive and thus, lead to satisfying outcomes for the patient.

PB 9781634848275 £71.50 January 2016 Nova Science Publishers 165 pages 155x230mm

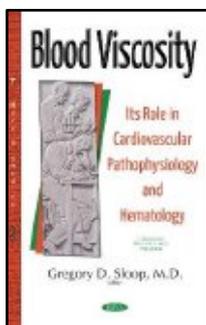


**Biliary Diseases with Pancreatic Counterparts**  
**A New Disease Concept (Pathology Research & Practices Series)**

Edited by Yasuni Nakanuma

Many pathologists and some clinicians notice in practical services that several biliary tract diseases resemble pathologically — and even biologically — some pancreatic diseases. In this book, the authors provide the anatomic and biological basis and characteristics for the occurrence of similar features in several diseases of the biliary tract and pancreas, and also the reasons why they propose the new disease concept known as “biliary diseases with pancreatic counterparts”. This book provides a comprehensive overview of several representative “biliary diseases with pancreatic counterparts”, from basic understanding to practical aspects, and presents the latest advances. The contributing authors extensively discuss the topic from different perspectives, including diseases such as IgG4-related diseases involving the pancreas and biliary tract, intraductal papillary neoplasm and intraductal tubulopapillary neoplasm of the bile duct and pancreas, invasive adenocarcinoma of the pancreas and biliary tract and their precursor lesions, and alcoholic pancreatitis and adenitis of the peribiliary glands, and so on. Biliary Diseases with Pancreatic Counterparts: A New Disease Concept is a valuable resource for clinicians in various disciplines, such as internal medicine, surgery, pathology and radiology. It allows biliary researchers and practitioners to broaden their understanding of the subject, and further explore the latest findings in clinicopathological features of these biliary tract and pancreatic diseases.

HB 9781536109160 £152.50 January 2017 Nova Science Publishers 240 pages 155x230mm

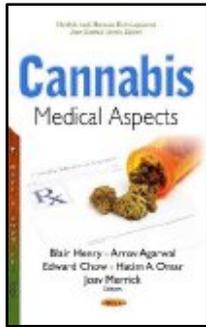


**Blood Viscosity**  
**Its Role in Cardiovascular Pathophysiology & Hematology**  
**(Pathology Research & Practices Series)**

Edited by Gregory D Sloop

The impact of blood viscosity on health and disease has been neglected, even though viscosity is a fundamental property of any fluid. It is inversely proportional to flow, so increased blood viscosity predisposes to thrombosis. Blood viscosity is directly related to systemic vascular resistance, and so blood viscosity affects blood pressure. Blood viscosity is inversely proportional to perfusion, and increased viscosity adversely affects the performance of all organs. By viewing them through the perspective of viscosity, this book provides fresh insight into atherosclerotic cardiovascular disease, hypertension, metabolic syndrome, sepsis, hemolytic anemias, anemia of chronic disease, and aging.

PB 9781536109634 £90.50 January 2017 Nova Science Publishers 110 pages 155x230mm



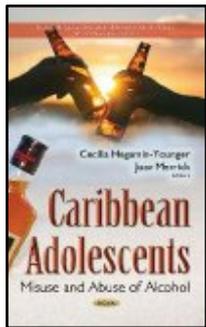
## Cannabis

### Medical Aspects (Health & Human Development Series)

Edited by Blair Henry, Arnab Agarwal, Edward Chow, Hatim A Omar & Joav Merrick

Cannabis has a long history of medicinal use, dating back thousands of years, but with the discovery of morphine, hypodermic needles and other fast acting synthetic opioids in the nineteenth and the turn of the twentieth century, cannabis use declined as a medication. For most of the past six decades, cannabis has been considered a recreational drug and considered illegal in many jurisdictions. Yet, in the past few years, its association with medicine has made a dramatic comeback. In the past several years, claims on the potential for cannabis to treat, cure and prevent a number of diseases and conditions has led some to query as to whether these claims are overstated. A game changer for medical cannabis has been the ability to consume it without a need to actually inhale it along with other negative products of combustion. Newer technologies that allow for the vaporisation of the full plant has made it less of a health concern. Noticeably the evidence on medical cannabis is lacking in both quality and quantity, and there has been a lack of good evidence on both medical risks and therapeutic benefits of marijuana.

HB 9781536105100 £152.50 January 2017 Nova Science Publishers 235 pages 155x230mm



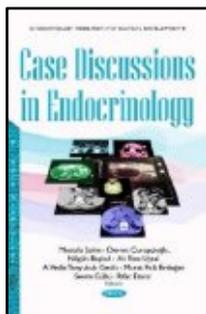
## Caribbean Adolescents

### Misuse & Abuse of Alcohol (Public Health -- Practices, Methods & Policies Series)

Edited by Cecilia Hegamin-Younger & Joav Merrick

When an economy is fueled by the alcohol industry, which is a powerful and a resource-intensive industry, governments who lack technical capacity and financial resources to combat the alcohol industry may fear the economic impact of restrictive alcohol policies. How can a country address the public health concerns from alcohol misuse and abuse? Because alcohol is no ordinary commodity, the public has a right to understand and expect a more enlightened approach to the development and implementation of an alcohol policy. An enlightened approach of using evidence to inform policies, include key members of the community and target the general population, at high-risk drinkers and at people already experiencing alcohol-related problems. Alcohol is a drug and a currency, making it a unique commodity. In this book, the authors present research on alcohol and advertisement, alcohol related traffic accidents, suicidal behavior and many more aspects of alcohol use and misuse in the Caribbean area.

HB 9781634858809 £152.50 January 2017 Nova Science Publishers 140 pages 155x230mm



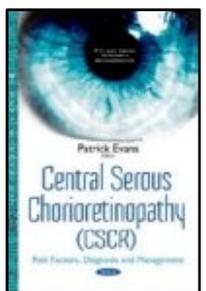
## Case Discussions in Endocrinology

### (Endocrinology Research & Clinical Developments Series)

Edited by Mustafa Sahin, Demet Çorapçioğlu, Nilgün Başkal, Ali Riza Uysal, A Vedia Tonyukuk Gedik, Murat Faik Erdoğan, Sevim Güllü & Rifat Emral

Endocrinology and metabolic diseases involve very common diseases like diabetes, obesity, polycystic ovary syndrome, hypertension and thyroid disorders. Endocrinology diseases especially adrenal, pituitary, thyroid, gonadal, and metabolic-related diseases require clinical experience, expertise and collaboration with other departments, and are so important for evaluating endocrine diseases. Expertise can only be gained by different case evaluations. Endocrinologists and internal medicine specialists should increase their capacity of creative thinking about their patients for more accurate patient care. This book is a compilation of work that may be beneficial for endocrinology and internal medicine residents, surgeons, and medical students. The purpose of this book is to cover up-to-date practical endocrine case management, daily practice and manage difficult cases in endocrinology.

PB 9781536106343 £78.50 January 2017 Nova Science Publishers 60 pages 155x230mm



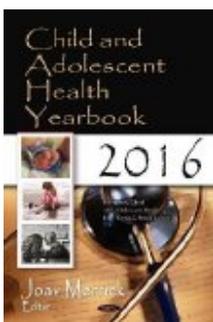
## Central Serous Chorioretinopathy (CSCR)

### Risk Factors, Diagnosis & Management (Eye & Vision Research Developments Series)

Edited by Patrick Evans

Central serous chorioretinopathy (CSCR) is an idiopathic, self-limiting retinal disease characterised by focal leakage from choroidal vessels through an altered retinal pigment epithelium (RPE) that results in limited serous detachment of the neurosensory retina. This book provides new research on the risk factors, diagnosis and treatments of CSCR.

PB 9781536108064 £78.50 January 2017 Nova Science Publishers 95 pages 155x230mm



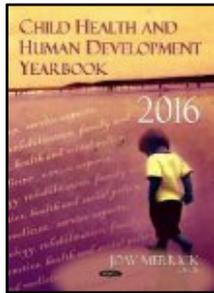
## Child & Adolescent Health Yearbook 2016

### (Pediatrics, Child & Adolescent Health Series)

Edited by Joav Merrick

In this Yearbook we have looked at issues and new phenomena commonly emerging in developed countries for children and adolescents. Although many of the chapters are from Hong Kong, China's most international city, with a focus on Chinese children and adolescents, key developmental issues are reviewed and new research agenda are discussed with implications for other cultures and cities. We hope this Yearbook will be of interest to researchers who want to develop a new framework for understanding some of the most intriguing developmental issues of today's youth. In the chapters, they may find new perspectives and precious hints for planning future research. The Yearbook may also interest teachers, psychologists, social workers, and mental health practitioners in general, as they need to design prevention or intervention programs to reduce the risk factors for adolescents.

HB 9781536109481 £257.50 January 2017 Nova Science Publishers 490 pages 180x260mm

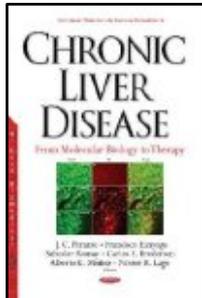


## **Child Health & Human Development Yearbook 2016 (Pediatrics, Child & Adolescent Health Series)**

Edited by Joav Merrick

In this Yearbook 2016 we cover several aspects of health issues in neonates, economy and declining birth rates, child health in the slums of India, youth leadership issues in Hong Kong, virtual environments, rehabilitation and special needs populations, and finally research on environmental and child health. These chapters will help stimulate more interest and effort in developing and implementing programs for children and youth to ensure a good and positive development for raising future generations of children.

HB 9781536109467 £295.50 January 2017 Nova Science Publishers 500 pages 180x260mm

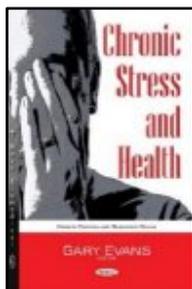


## **Chronic Liver Disease From Molecular Biology to Therapy (Hepatology Research & Clinical Developments Series)**

Edited by J C Perazzo, Francisco Eizayaga, Salvador Romay, Carlos E Brodersen, Alberto E Muñoz & Néstor R Lago

Chronic liver disease is one of the most prevalent diseases in the developed world. The large amount of new knowledge has resulted in subspecialties, even in issues such as hepatology. Thus every day, it is more difficult to access all relevant information that is being published. Additionally, biomolecular techniques lead to a level of complexity that is only beneficial when dealt with by professionals. This book attempts to give a broad overview of the molecular biology of the liver, emphasising how this knowledge is the basis of further treatment. Thus, pathophysiology and therapies are updated in viral hepatitis, hepatic encephalopathy and portal hypertension, among others. However, appended issues that apparently are less relevant such as the stem cell and endocannabinoids are included. These two issues will soon be of importance due to their close relationship with the liver tissue and especially with liver disease. There are also new paradigms such as cell death and the implication of the extracellular matrix, which are also addressed.

HB 9781536102376 £219.50 January 2016 Nova Science Publishers 400 pages 180x260mm

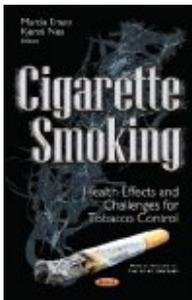


## **Chronic Stress & Health (Health Psychology Research Focus Series)**

Edited by Gary Evans

Stress is the process in which environmental demands exceed an individual's ability to cope, resulting in affective, behavioural, and physiological changes. In response to stress, the body activates several pathways as the hypothalamic-pituitary-adrenal (HPA), sympathetic-adrenal-medullary, renin-angiotensin system (RAS) and parasympathetic system in attempting to preserve homeostasis. This book provides new research on the impact chronic stress has on overall health.

PB 9781536108323 £78.50 January 2017 Nova Science Publishers 80 pages 155x230mm

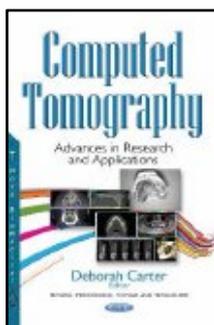


## **Cigarette Smoking Health Effects & Challenges for Tobacco Control (Public Health in the 21st Century Series)**

Edited by Marcia Erazo Bahamondes & Kjersti Ness

Tobacco smoking is a major public health issue worldwide. Smoking causes more than a quarter of all cancer deaths, with nearly 80% of deaths from lung cancer, 80% of deaths from bronchitis and emphysema and almost one fifth of deaths from cardiovascular disease. The role of tobacco smoke in the development of cancer, cardiovascular and respiratory diseases is widely discussed in the chapters of this book. It is responsible for many preventable diseases, contributes to a large number of premature deaths and accounts for enormous economic costs. The chapters in this book review a variety of topics related to the sociodemographic characteristics of people consuming tobacco, tobacco product promotion and merchandising consequences of smoking on health, the studied mechanism of damage and the different interventions promoted for tobacco control. Many indicators of exposure to environmental tobacco smoke, ranging from surrogate indicators to direct measurements of the components that reflect dose are analysed. Advances can provide useful information on the extent and effects of smoking, implementing and assessing tobacco control policies.

HB 9781536103328 £185.99 January 2016 Nova Science Publishers 215 pages 155x230mm

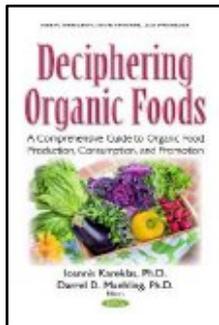


## **Computed Tomography Advances in Research & Applications (Medical Procedures, Testing & Technology Series)**

Edited by Deborah Carter

This book provides new research on computed tomography. Chapter One presents strategies for computer-aided designing of surgical guides for dental implant procedures based on cone beam computed tomography (CBCT). Chapter Two gives an in depth analysis of using CBCT in anatomic variations of the mandibular canal and the mental foramen. Chapter Three discusses the use of CBCT for an accurate analysis of the nasopalatine canal. Chapter Four reviews the use of CBCT to assess morphometric characteristics of the greater palatine canal. Chapter Five reviews and discusses the application of state-of-art content based image retrieval schemes in pathological risk analysis of lung computed tomography images.

PB 9781536107661 £78.50 January 2017 Nova Science Publishers 70 pages 155x230mm

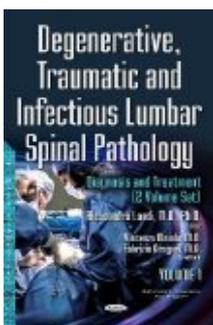


## **Deciphering Organic Foods** **A Comprehensive Guide to Organic Food Production, Consumption, & Promotion** **(Nutrition & Diet Research Progress Series)**

Edited by Ioannis Kareklas & Darrel D Muehling

This book discusses a variety of topics related to organic food production, consumption, and promotion. Written by experts in each of these fields, this book will interest consumers, academicians, marketing practitioners, as well as policy makers. Myths about organic foods are dispelled, and the code is cracked regarding the plethora of existing labels that have led to so much market confusion in recent years. New research findings regarding the environmental benefits (as related to sustainability) of organic food production, as well as the many nutritional and other personal health benefits of organic food consumption are discussed. The issues that lead to the price premium of organic foods, relative to conventional foods, are presented, and suggestions are provided regarding the types of foods that are worth paying the organic price premium. Marketers and advertisers of organic foods will find the overview of successful advertising tactics comprehensive and informative. Similarly, pet owners considering the switch to organic pet food will enjoy reading about this emerging market and will receive vital information to help them in their decision making.

HB 9781536105179 £152.50 January 2017 Nova Science Publishers 210 pages 155x230mm

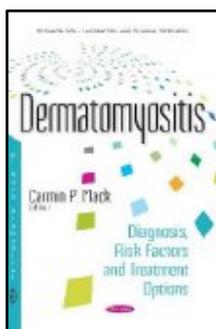


## **Degenerative, Traumatic & Infectious Lumbar Spinal Pathology** **Diagnosis & Treatment -- 2 Volume Set (Orthopedic Research & Therapy Series)**

Edited by Alessandro Landi, Vincenza Maiola & Fabrizio Gregori

This book is the result of the need to provide a comprehensive description of the degenerative, traumatic and oncological disease of the lumbar spine, addressing conservative and surgical treatment to cater to both experts and young surgeons with less experience in this field. The aim of this book is to give an overview on the state of the art, the actuality and the future perspectives of the diagnosis and treatment of lumbar spinal pathologies, highlighting the fundamental role of multidisciplinary management. In this field, neurosurgeons and orthopedics function two different ways; in fact, there are some spine pathologies that are actually described exclusively for orthopedics, such as congenital and developed scoliosis, while others are specifically for neurosurgeons, such as intra-extradural pathologies. In light of this, it may be extremely useful to report neurosurgical and orthopedic experience in the field of lumbar spine. Moreover, the contribution of other specialists, such as infectiologists, cardiologists, and neuroradiologists should be mentioned. This book is written by a group of highly trained, multidisciplinary specialists from all over the world, who present the requirements for the most advanced therapies on the aged, adult and pediatric thoracolumbar spine. The chapters report the diagnostic and therapeutic management of the thoracolumbar pathology while presenting a step by step presentation of the most advanced procedures. New technologies such as spinal neuronavigation, transfacet fixation devices and minimally invasive techniques are extensively described. Considering the growing incidence of spinal disease, the authors aim to provide an expert overview of lumbar spine treatment to assist the medical community with treating this increasingly common pathology. This book aims to provide a message: Surgery must not become a trend, but a weapon in the surgeon's hands; and as with every weapon, it is extremely dangerous in the wrong hands. The spinal surgeon is the only one who can decide when to use it and must know in detail the effects of this weapon to use it correctly.

HB 9781634859189 £376.50 January 2016 Nova Science Publishers 600 pages 180x260mm

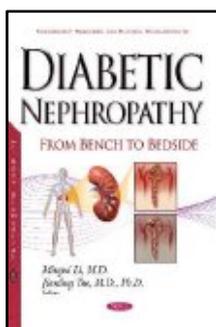


## **Dermatomyositis** **Diagnosis, Risk Factors & Treatment Options** **(Dermatology -- Laboratory & Clinical Research Series)**

Edited by Carmin P Mack

Dermatomyositis (DM) is an autoimmune inflammatory condition affecting the skin and skeletal muscle. Characteristic skin findings along with symmetric proximal extensor muscle weakness help define this condition. DM is seen in both children and adults, affecting approximately 10 cases per million in US adults and 3.2 cases per million in US children. The exact mechanism of DM is unknown however previous studies suggest autoimmune, genetic, and environmental causes. This book reviews the diagnosis, risk factors and available treatment options for dermatomyositis.

PB 9781536109788 £78.50 January 2017 Nova Science Publishers 104 pages 155x230mm

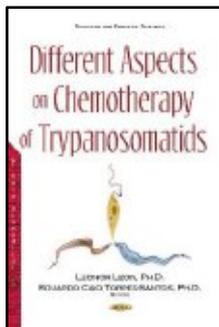


## **Diabetic Nephropathy** **From Bench to Bedside (Nephrology Research & Clinical Developments Series)**

Edited by Mingxi Li, Jianling Tao & Xuemei Li

Diabetic Nephropathy (DN) is the leading cause to end-stage renal disease all over the world. Unfortunately, no effective treatment is available to stop its progression. So far, many key issues remain unrevealed in relation to its pathogenesis, new forms of therapy, and complication intervention. In this book, the authors aim to provide updated medical knowledge and practical management strategies to medical professionals who are caring for DN patients based on their ample clinical experiences, strong bench and bedside research background, and tight collaboration with experts in other fields caring for common complications in DN. The authors also want to shed light on the work of bench researchers in fields of DN and its complications from a clinical perspective.

PB 9781536102772 £78.50 January 2016 Nova Science Publishers 90 pages 155x230mm

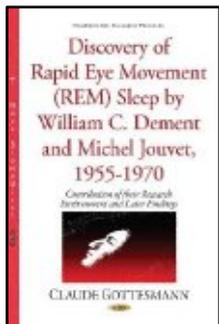


## **Different Aspects on Chemotherapy of Trypanosomatids (Cancer Etiology, Diagnosis & Treatments Series)**

Edited by Leonor Leon & Eduardo Caio Torres Santos

With the knowledge that there are several pieces of information concerning the chemotherapy of trypanosomatids, it is important to put together the different aspects of this subject. This book is an updated version of several areas such as molecular biology, biochemistry, immune response to the studied compounds, pharmacology, etc. The chapters were written by experts in those different specialties. It reinforces the necessity to look to those trypanosomatids associated with severe diseases, such as Chagas disease, leishmaniasis and African trypanosomiasis, which constitute a public health problem in poor countries where basic sanitary conditions are non-existent. This book intends to show the importance of specific methodologies to save time and money during the drug development process. Each step should be carefully planned from the selection of test compounds, the choice of a molecular target within parasites, the definition of a lead compound and the adequacy of the animal models. It is also important to focus on the activity of compounds, synthetic or from natural sources, in different species and life stages of the parasites, besides the way these compounds are metabolized in these laboratory conditions. In conclusion, this book will bring you information that could stimulate the development of better treatments for these highly neglected diseases.

HB 9781536108507 £185.99 January 2017 Nova Science Publishers 240 pages 180x260mm

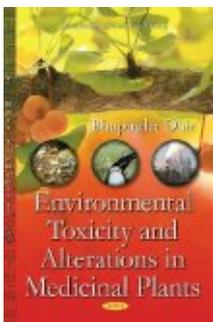


## **Discovery of Rapid Eye Movement (REM) Sleep by William C Dement & Michel Jouvét, 1955-1970 Contribution of their Environment (Neuroscience Research Progress Series)**

Claude Gottesmann

Last century's research on sleep may be divided into two different time periods. The first half of the century was dominated by the work of Henri Piéron and Nathaniel Kleitman, and was devoted to sleep experiments of a classical nature that were performed on animals and humans (Gottesmann, Nova 2013). At the beginning of the second half of the century, a major discovery identified a sleep phase during which eye movements can be recorded and dreaming occurs. William C. Dement and Michel Jouvét, dominated the next fifty years independently with their discovery of nearly all the properties concerning "rapid eye movement (REM) sleep", also called "paradoxical sleep". This book analyses the first major findings that were made possible by all the available methods (behavioral observations, electrophysiology, surgical interventions, pharmacology) used by both authors to characterize this sleep stage. All the successive papers by Dement and Jouvét are analyzed in turn for the period from 1955 to 1970. The results that came of the authors' research environment are taken into account, and all the data available in the past and present are discussed and integrated into those findings.

HB 9781634856935 £219.50 January 2017 Nova Science Publishers 240 pages 180x260mm

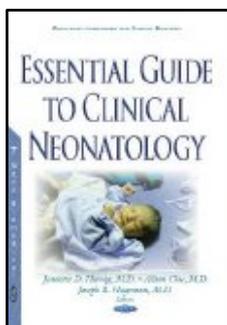


## **Environmental Toxicity & Alterations in Medicinal Plants (New Developments in Medical Research Series)**

Bhupinder Dhir

Ever-changing environmental conditions and climatic transformations have affected each component of the environment. Increasing rates of soil, air and water pollution have altered the growth and production of vegetation to a greater extent and medicinal plants are also not spared from this. Medicinal plants form an important part of traditional and modern systems of medicine. The consumption of medicinal plants has increased over the last few decades. The present book provides detailed information on the topic with an emphasis on the effects of inorganic, organic (chemical), biological and other contaminants of medicinal plants. It provides a vast amount of information concerning the effects of various environmental factors on growth, productivity and secondary metabolite production in medicinal plants. The book also highlights the adverse effects of contaminants in plants and related toxicity of contaminated medicinal plants, with their possible effects on therapeutic efficiency and human health. The detailed information about the contamination and toxicity in medicinal plants will challenge the scientific community to find ways of countering many environmental adversities to protect, preserve and maintain many of the rare medicinal plants used in treating various diseases.

HB 9781634830973 £180.99 January 2015 Nova Science Publishers 240 pages 180x260mm

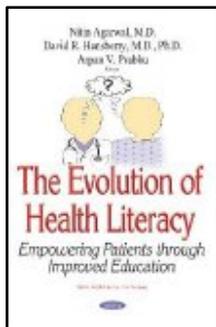


## **Essential Guide to Clinical Neonatology (Pediatrics -- Laboratory & Clinical Research Series)**

Edited by Jeanette D Hoenig, Alison Chu & Joseph R Hageman

This is the last handbook any neonatal care provider will need, providing a concise yet comprehensive review of essential topics. While it is handbook-sized, it provides in-depth descriptions of fundamental principles for didactic learning, balanced with practical management pointers. It covers common diagnoses in neonatology (from respiratory distress syndrome to congenital cardiac disease to anaemia of prematurity), provides procedural guides (such as lumbar puncture and umbilical line placement), and includes nutritional guidelines for neonates, a comprehensive medication dosing guide, and more. The book is organized by organ systems, and chapters generally provide background didactic information covering basic physiology, diagnostic instruction, as well as management principles based upon evidence-based medicine. Therefore, it can be read from cover to cover to establish a foundation of knowledge for neonatal trainees, or each chapter can be read in isolation as needed for day-to-day practice. Chapters have been authored by a team of multi-disciplinary experts from physicians, to fellows, to respiratory and developmental therapists, to nutritionists, all of who have been recruited from across the US. Therefore, the content of this handbook is accessible at many levels of experience, across many of the disciplines that are essential for providing well-rounded neonatal care, and for any neonatal intensive care unit -- from community NICUs to academic institutions.

PB 9781536118100 £104.99 January 2017 Nova Science Publishers 286 pages 180x260mm

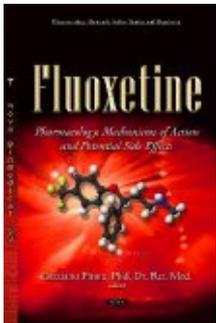


## Evolution of Health Literacy A Novel Modality for Assessing Patient Education (Public Health in the 21st Century Series)

Edited by Nitin Agarwal, David R Hansberry & Arpan Vaikunth Prab

Physicians have long pledged to adhere to four basic moral principles, a concise framework for the larger field of medical ethics. As is commonly known, those values consist of autonomy, beneficence, non-maleficence, and justice. However, in order to advocate for these principles for patients, medical professionals must first ensure patients have appropriate medical resources from which to glean information. This book serves to underscore this concept and advance the field of patient education.

PB 9781536106022 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm

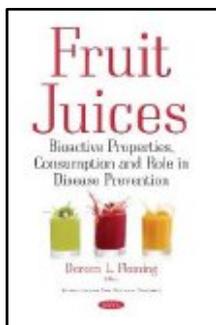


## Fluoxetine Pharmacology, Mechanisms of Action & Potential Side Effects (Pharmacology -- Research, Safety Testing & Regulation Series)

Graziano Pinna

Fluoxetine, best known by the trade name Prozac®, unlike other psychotropic drugs whose effects were serendipitously stumbled upon, was the first developed for a precise mechanism of action, that is, the ability to selectively inhibit serotonin reuptake, based upon the theory that increasing the availability of serotonin would treat major depression. Once approved by the FDA in 1987, fluoxetine quickly became the most prescribed psychotropic drug worldwide and its success in improving mood disorders has triggered the development of a large number of congener molecules, commonly known as SSRIs after their purported mechanism of action. However, a quarter of a century after its development, the idea that fluoxetine asserts its positive behavioral effect through inhibition of serotonergic reuptake is not firmly established. This book reviews several preclinical and clinical reports suggesting that the pharmacological effects of fluoxetine may be mediated by means other than the regulation of serotonin, including the regulation of gene expression, modifying epigenetic mechanisms as well as modifying microRNAs. One of the most prominent mechanisms for the therapeutic relevance of fluoxetine relates to influencing neuroplasticity by enhancing neurotrophic factors, including BDNF signaling and altering adult neurogenesis. The ability of fluoxetine to rapidly increase neurosteroid levels accounts for the fast anxiolytic effects of this drug. Fluoxetine action at sigma-1 receptor or modulating glutamatergic neurotransmission as well as the combination of fluoxetine with other psychotropic drugs is discussed in relation to its therapeutic effects. While fluoxetine was primarily prescribed as an antidepressant, this drug currently represents a treatment of choice for a broad spectrum of psychiatric disorders, including post-traumatic stress disorder and a range of anxiety disorders. This drug even possesses analgesic actions and is a valuable therapy for stroke.

HB 9781634820769 £199.99 January 2015 Nova Science Publishers 412 pages 180x260mm

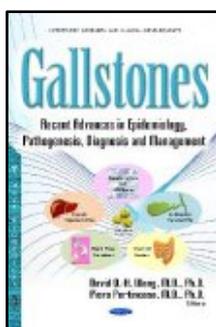


## Fruit Juices Bioactive Properties, Consumption & Role in Disease Prevention (Nutrition & Diet Research Progress Series)

Edited by Doreen L Fleming

This book provides new research on fruit juices. Chapter One focuses reports on the validation of an analytical method for the simultaneous determination of citric, malic and lactic acids in fermented passion fruit. Chapter Two analyses citrus pectin as a prebiotic in beverages containing Lactobacillus rhamnosus ATCC 7469. Chapter Three provides a critical review of fruit juices as a nutrient-dense food for health enhancement. Chapter Four examines the role of fruit juice or fruit components in general in the prevention of some of the most relevant neurodegenerative diseases.

PB 9781536109221 £78.50 January 2017 Nova Science Publishers 110 pages 155x230mm

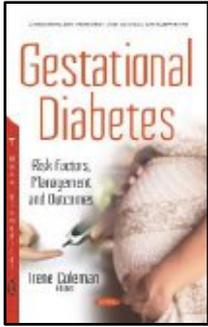


## Gallstones Recent Advances in Epidemiology, Pathogenesis, Diagnosis & Management (Hepatology Research & Clinical Developments Series)

Edited by David Q H Wang & Piero Portincasa

Gallstone disease is one of the most prevalent digestive diseases, resulting in a considerable amount of financial and social burden in the USA. Approximately 20 million Americans have gallstones. Because gallstone disease is a common clinical problem, basic and clinical studies on this disease continue to advance at a rapid pace, and a book focusing on basic science, current diagnosis and management of gallstones will greatly help practicing gastroenterologists, gastroenterological endoscopists, physicians and surgeons to understand the etiology of this disease and the availability of effective medical therapies. In this book, recognised medical experts discuss recent advances in the epidemiology, pathophysiology, pathogenesis, genetics and diagnosis, as well as endoscopic, medical and surgical therapies of gallstone disease. This compilation was written by fifty authors from eight countries (Canada, China, Germany, Italy, Japan, the Netherlands, the United Kingdom, and the USA). The articles provide a state-of-the-art review of the current knowledge on the lithogenesis and the management of gallstone disease.

HB 9781634859998 £295.50 January 2016 Nova Science Publishers 745 pages 180x260mm

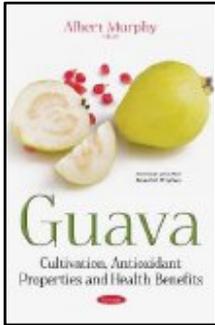


**Gestational Diabetes**  
**Risk Factors, Management & Outcomes**  
**(Endocrinology Research & Clinical Developments Series)**

Edited by Irene Coleman

The prevalence of gestational diabetes mellitus (GDM) is increasing among women worldwide. Gestational diabetes mellitus is defined as abnormal glucose metabolism that initially occurs, or is first recognised, during pregnancy. Early diagnosis of GDM minimises the exposure of the developing fetus to suboptimal conditions and prevents perinatal complications. This book discusses the risk factors GDM has on the fetus and the mother. It also reviews management options and typical outcomes of having GDM.

PB 9781536107630 £90.50 January 2017 Nova Science Publishers 135 pages 155x230mm

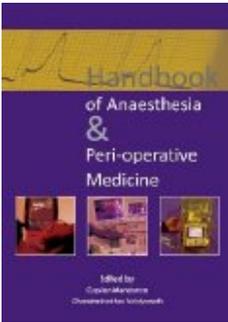


**Guava**  
**Cultivation, Antioxidant Properties & Health Benefits**  
**(Nutrition & Diet Research Progress Series)**

Edited by Albert Murphy

Guava (*Psidium guajava* L.), which is considered a native to southern Mexico into Central America extends throughout the South America, Europe, Africa and Asia. It is widely cultivated in tropical and subtropical regions and is becoming increasingly popular worldwide. In this book, Chapter One reviews guava's productive aspects, quality and health benefits. Chapter Two focuses on the guava by-products' composition which govern the functional properties. Chapter Three addresses the chemical composition, antioxidant activity and food applications of guava. Chapter Four presents an overview on fundamental and applied aspects related to production of aroma compounds in guava fruit.

PB 9781536107678 £78.50 January 2017 Nova Science Publishers 90 pages 155x230mm

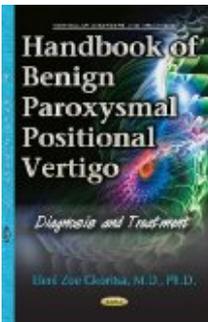


**Handbook of Anaesthesia & Peri-operative Medicine**

Edited by Cyprian Mendonca & Chandrashekhar Vaidyanath

This book covers a broad range of topics, providing trainee and practising anaesthetists with a comprehensive source of knowledge on applied sciences and clinical anaesthesia. The book has been divided into six sections with various chapters serving as a synopsis of the practice of anaesthesia. Each chapter discusses the significance and importance of problems that can impact the peri-operative management of the surgical patient. The case scenarios at the end of each chapter will additionally help in understanding the practical relevance of basic science. This book will be an invaluable educational resource for trainee anaesthetists and an indispensable aide-mémoire for practising anaesthetists. It is essential study material for trainees and a great educational tool for trainers. Medical students and junior doctors, who are about to embark on a career in anaesthesia or intensive care medicine, will also find the book to be a useful companion.

PB 9781910079195 £45.00 May 2017 TFM Publishing 864 pages 150x210mm

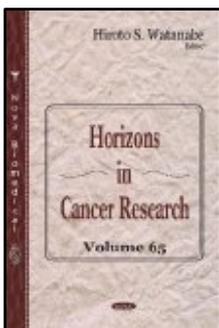


**Handbook of Benign Paroxysmal Positional Vertigo**  
**Diagnosis & Treatment (Vestibular Disorders & Treatment Series)**

Edited by Eleni Zoe Gkoritsa

Benign Paroxysmal Positional Vertigo (BPPV) is a clinical syndrome (or disorder) marked by the recurrent attacks of vertigo or dizziness, provoked by lying down or turning over in the supine position (i.e. when the head changes position in relation to the vector of gravity). It is the most frequent vestibular syndrome, with a lifetime prevalence of 10% by the age of 80. The clinician who deals with vertiginous patients ought to be familiar with this disorder. The general practitioner should be able to suspect BPPV from the history of the patient in order to refer the patient correctly and save unnecessary time as well as costs for the patient. This book is a relatively brief, but accurate approach to the diagnosis and treatment of BPPV. It is accompanied by high quality color figures of the most principal diagnostic and therapeutic maneuvers, so that they can be understood by clinicians and physiotherapists of both advanced and basic levels of knowledge for the topic.

PB 9781634856904 £90.50 January 2016 Nova Science Publishers 140 pages 155x230mm

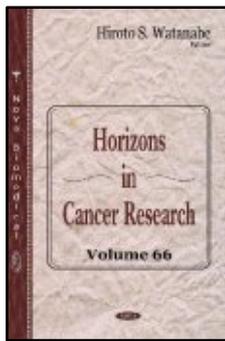


**Horizons in Cancer Research**  
**Volume 65 (Horizons in Cancer Research Series)**

Edited by Hiroto S Watanabe

This book presents original results on the leading edge of cancer research. Chapter One provides a comprehensive discussion to address the potential benefits of myricetin on cancer, diabetes, and neurodegenerative disease. It also discusses the underlined mechanism involved in the biological action of myricetin. Chapter Two discusses the clinical significance of vasculogenic mimicry. Chapter Three studies bacterial toxins as a direct cause of cancer. Chapter Four examines the immunological aspect of stroma in ovarian cancer. Chapter Five focuses on immune checkpoint inhibitors in the treatment of solid tumors. Chapter Six provides a review of targeting non-coding mitochondrial RNAs in gynecological and urinary malignancies. Chapter Seven explores the NF- $\kappa$ B signaling pathway, and its targeting in human cancer treatment. Chapter Eight analyses the circadian rhythm and skin cancer prevention. The final section of this book is a short commentary on melanoma.

HB 9781536109443 £238.50 January 2017 Nova Science Publishers 180 pages 155x230mm

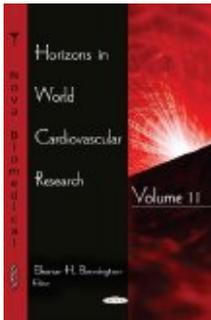


## **Horizons in Cancer Research** **Volume 66 (Horizons in Cancer Research Series)**

Edited by Hiroto S Watanabe

This book presents original results on the leading edge of cancer research. Chapter One provides a brief overview of the recent updates in the role of the laboratory in establishing the diagnosis, methods of disease monitoring and mechanisms that contribute to tyrosine kinase inhibitor (TKI) resistance for patients with chronic myeloid leukemia. Chapter Two reviews self-esteem and academic difficulties in preadolescents and adolescents health from pediatric leukemia. Chapter Three analyses the role of lactoferrin expression in the initiation and progression of most common hormone-dependent cancers. Chapter Four studies the ETS transcription factor FLI-1 as an important player in human cancer. Chapter Five highlights the latest advances in DNA methylation signature- based liquid biopsy. Chapter Six presents data concerning the pharmacological activity of water-soluble complex of quercetin with polyvinylpyrrolidone on the process of bleomycin-induced lung fibrosis in mice. Chapter Seven investigates prospects of enhancing anti-cancer activities of quercetin in the treatment of glioblastoma. Chapter Eight discusses the correction of tumor-associated thrombocytopenia by quercetin. Chapter Nine examines robotic surgery for prostate cancer.

HB 9781536110111 £238.50 January 2017 Nova Science Publishers 230 pages 155x230mm

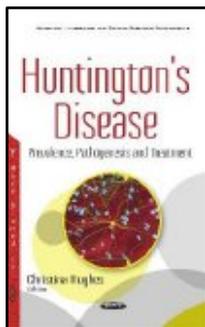


## **Horizons in World Cardiovascular Research** **Volume 11 (Horizons in World Cardiovascular Research Series)**

Edited by Eleanor H Bennington

This book provides readers with the latest developments in cardiovascular research. Chapter One reviews new concepts and targets in pulmonary hypertension. Chapter Two discusses new directions in aortic valve disease treatments. Chapter Three focuses on how altering energy substrate metabolism in the heart can be used as an approach for the treatment of cardiac ischemia-reperfusion. Chapter Four analyses cardiovascular and renal risks in women after preeclampsia. Chapter Five studies the impact of energy drink consumption on cardiovascular diseases. Chapter Six reviews fluid management strategies in heart failure patients suffering from diuretic resistance. Chapter Seven explains the effects of macrolides as matrix metalloproteinase inhibitors on cardiovascular remodeling. Chapter Eight describes methodologies that use neutralising antibodies or immunoglobulins to prevent graft arterial disease.

HB 9781536108552 £238.50 January 2017 Nova Science Publishers 171 pages 155x230mm

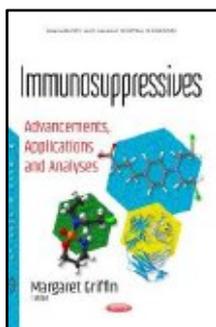


## **Huntington's Disease** **Prevalence, Pathogenesis & Treatment** **(Neurology -- Laboratory & Clinical Research Developments Series)**

Edited by Christina Hughes

Huntington's disease (HD) is a progressive, fatal, dominant inherited neurodegenerative disorder caused by an unstable expansion of CAG repeats within the coding region of the IT15 gene that encodes for a protein called huntingtin (htt). The clinical hallmark of HD is a severe motor impairment, but cognitive and psychiatric symptoms are early clinical features in HD that often appear before the onset of motor signs. This book discusses the prevalence, pathogenesis and treatment of HD.

HB 9781536108279 £90.50 January 2017 Nova Science Publishers 170 pages 155x230mm

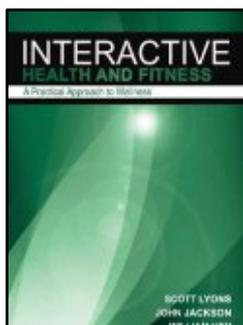


## **Immunosuppressives** **Advancements, Applications & Analyses** **(Immunology & Immune System Disorders Series)**

Edited by Margaret Griffin

Provides new research on immunosuppressives. Chapter One focuses on practical issues concerning immunosuppression in nephrology. Chapter Two discusses the global significance of hepatitis B virus (HBV) infection, the clinical scenarios in which immunosuppressive therapy may reactivate HBV, and different management strategies to prevent HBV reactivation. Chapter Three reviews the effect of immunosuppressive therapy in inflammatory bowel disease (IBD) patients in response to vaccinations, and provides a general framework to the approach of vaccinations to these patients.

PB 9781536108309 £78.50 January 2017 Nova Science Publishers 80 pages 155x230mm

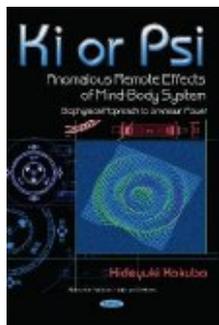


## **Interactive Health & Fitness** **A Practical Approach to Wellness**

Scott Lyons, John Jackson & William Hey

This book is written for college and university general health education or lifetime fitness and wellness classes. However, nothing about this book is general. This is a learning system that uses interactive, Web-based modules along with a textbook that contains the most current knowledge. Rather than being "just another textbook" with accompanying online modules, this book creates a new paradigm in how content is delivered, and it engages students in a way that no previous textbook or learning system has attempted before. The book contains timely resources and is in a relevant format, providing students with the necessary tools to become more aware and involved with their health and fitness.

PB 9781571677747 £94.50 December 2016 Sagamore Publishing 425 pages 140x210mm illus

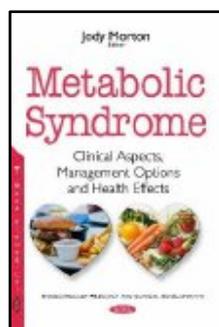


**Ki or Psi -- Anomalous Remote Effects of Mind-Body System  
Biophysical Approach to Unknown Power  
(Alternative Medicine, Health & Wellness Series)**

Edited by Hideyuki Kokubo

It is said that humans have unknown power known as ki (bio-psychokinesis). Ki is also not unlike other forms of bio-energy, such as prana in ancient India or psi in modern parapsychology. Referred also as energy medicine, spiritual healing and prayer therapy, these practices have been executed throughout different points in history and countries all over the world. Moreover, energy medicine has been used in hospitals recently. However, there are many unresolved problems with such bio-energy. The focus of this book is the author's biophysical study on anomalous phenomena, which are claimed to be caused by bio-energy. In Chapter I, the author describes the concept of ki in modern Japan. He also describes the concept of bio-sensors to detect implicit anomalous weak energy. Bio-sensors are important in modern parapsychology, and many successful studies are done using bio-sensors. In Chapter II, the author summarises new findings obtained through his studies by using the pieces of a cucumber. Through his unique methods, various properties of ki (psi) are found. The most important finding is that the ki (psi) phenomenon follows simple laws in physics. The author measured the spatial distribution of ki-field, which is generated around a human body. The result of the world's first quantitative measurement of ki-field is shown in this book. In Chapters III & IV, the author explains the detail of how to use cucumbers as a bio-sensor for weak bio-energy; some examples of these are gas, biophoton, and fluorescence measurement methods. The author describes them for students and beginner students of ki (psi), and the readers will be able to understand and execute them by themselves completely. A brief touch on Japanese studies on ki (psi) is shown in Chapter V. Additionally, the author describes Chinese parapsychological study. These historic inheritances will help the readers to understand research senses of the modern study on ki and psi.

PB 9781536110258 £84.99 January 2017 Nova Science Publishers 208 pages 180x260mm

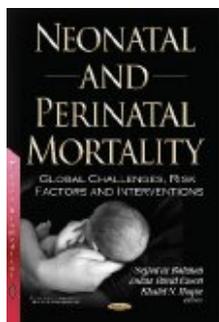


**Metabolic Syndrome  
Clinical Aspects, Management Options & Health Effects  
(Endocrinology Research & Clinical Developments Series)**

Edited by Jody Morton

Metabolic syndrome is a clustering of cardio-metabolic risk factors that include obesity, insulin resistance, hypertension and dyslipidemia. These risk factors also contribute to cellular dysfunction and redox imbalance that enhance the progression of a pro-oxidative environment leading to damaged biomolecules, which are highly reactive in nature and can promote cell and tissue dysfunction leading to metabolic diseases. This book provides new research on the clinical aspects, management options and health effects of metabolic syndrome.

PB 9781536107012 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm

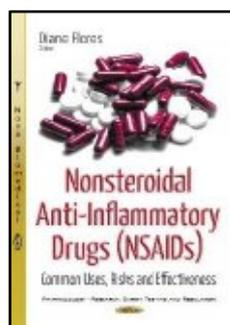


**Neonatal & Perinatal Mortality  
Global Challenges, Risk Factors & Interventions  
(Pediatrics -- Laboratory & Clinical Research Series)**

Edited by Sajjad ur Rahman, Julian David Eason & Khalid N Haque

The end of 2015 has brought the end of WHO's Millennium Development Goals (MDGs) which have achieved a significant, though patchy improvement in global maternal and child health. The new-born health and stillbirths were not on the global agenda of MDGs. Hence, the global burden of neonatal and perinatal mortality remained largely unchanged. With the dawn of 2016, the world has entered into the new era of Sustainable Development Goals (SDGs). The SDGs mandates all nations to reduce neonatal mortality rate to <12 per 1000 live births by 2030. Nations worldwide have committed to this in a major way. With this in mind, it is important to understand the current burden of global neonatal and perinatal mortality, as its risk factors and interventions required to reach the SDG target by 2030. This book on neonatal perinatal mortality provides a comprehensive and systematic review by panels of experts from well recognised institutions worldwide on the current status, determinants of neonatal perinatal deaths and the interventions needed to reduce these deaths worldwide. It is a must read for global health students and experts, paediatricians, neonatologists, perinatologists, obstetricians, public health professionals, health care strategists, health care funding agencies, government and non-government health care providers, academicians, researchers, nurses, midwives, community health care workers, medical students and medical academics.

HB 9781536105629 £185.99 January 2017 Nova Science Publishers 270 pages 155x230mm

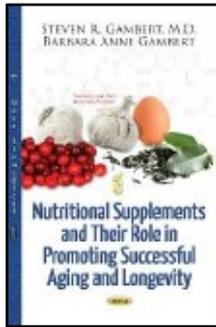


**Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)  
Common Uses, Risks & Effectiveness  
(Pharmacology - Research, Safety Testing & Regulation Series)**

Edited by Diane Flores

Nonsteroidal antiinflammatory drugs (NSAID's) are one of the most widely prescribed drugs for their analgesic, antiinflammatory and antipyretic properties. This book provides new research on the common uses, risks and effectiveness of NSAIDs. Chapter One evaluates the potential environmental health impacts of NSAIDs in aquatic environments. Chapter Two reviews the incidence rate and toxic damage of diclofenac which is one of the mostly detected drugs in aquatic environments worldwide. Chapter Three discusses advanced oxidation processes for the removal of NSAIDs. Chapter Four outlines recent progress of EPs and their role in inflammation-related cardiovascular diseases.

HB 9781536108866 £152.50 January 2017 Nova Science Publishers 200 pages 155x230mm

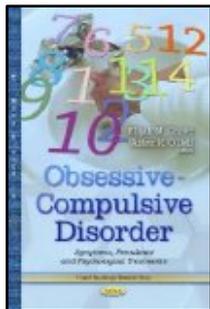


## **Nutritional Supplements & Their Role in Promoting Successful Aging & Longevity (Nutrition & Diet Research Progress Series)**

Steven R Gambert & Barbara Anne Gambert

Every day, people must make choices. Perhaps nothing is as important, however, as what people choose to eat or not eat. While hunger, whether it be a desire to have a feeling of well-being or purely due to habit, motivates many of our choices, and nutrition plays an essential role in our health and how successful we will be in terms of our aging process. The term "nutritional supplements" is generally used to include vitamins, minerals, herbs, meal supplements, sports nutrition products, natural food supplements, and other related products. This monograph, while not an exhaustive compilation of all nutritional supplements available, is meant to guide any reader who is interested in adding quality of life to their remaining years, and perhaps even extending their life span. Whether it is a vitamin, mineral, macronutrient, super food or herb, we have attempted to present the data available (whether anecdotal, based on animal/cellular models, or well conducted scientific studies in humans), to help the reader make a wise choice as to what to include in their diet. This may include a specific food, an ingredient, or nutritional product depending on the person.

PB 9781536108835 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm

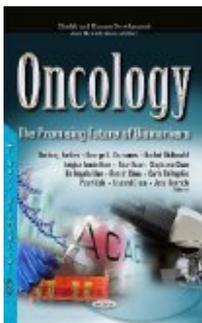


## **Obsessive-Compulsive Disorder Symptoms, Prevalence & Psychological Treatments (Health Psychology Research Focus Series)**

Edited by Elijah M Crowe & Aiden R O'Dell

Clinical Obsessive-Compulsive Disorder is distinguished from "normal" obsessions and compulsions primarily by the frequency and intensity of the symptoms, and the extent to which they interfere with daily functioning. In this book, the authors present current research in the study of the symptoms, prevalence and psychological treatments for OCD. Topics discussed include the role of Comorbid Personality Disorders (CPDs) in Obsessive-Compulsive Disorder (OCD); the adaptive significance of and natural expression of obsessive and compulsive-like symptoms; OCD in children; cognitive techniques for OCD treatment; the dimensionality of OCD symptoms; internet-based cognitive behaviour therapy for OCD; the phenomenology, correlates and psychosocial impact of obsessive-compulsive love; the importance of quality of life in patients with OCD; and an investigation into the dimensions of symptoms in patients with Tourette Syndrome.

HB 9781629484914 £142.99 January 2013 Nova Science Publishers 237 pages 180x260mm



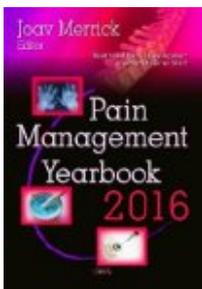
## **Oncology**

### **The Promising Future of Biomarkers (Health & Human Development Series)**

Edited by Anthony Furfari, Leigha Rowbottom, Rachel McDonald, Carlo DeAngelis, Azar Azad, Stephanie Chan, Bo Angela Wan, Ronald Chow, Pearl Zaki, Edward Chow, George S Charames & Joav Merrick

Cancer is a term that describes a constellation of diseases that affect a large proportion of the global population. By 2020, it is estimated there will be 15 million new cancer cases worldwide and a corresponding 12 million cancer-related deaths. There are many efficacious treatments for cancer with both curative and palliative intents, which regardless of efficacy, can result in distressing symptoms including pain, fatigue, nausea, vomiting, and reduced function. Compounded with very similar symptoms from the disease itself, toxicities can ultimately lead to diminished quality of life (QOL). In recent years, the use of biomarkers in cancer research and practice has become a widely discussed topic of exploration for researchers and clinicians alike. A biomarker is a biological property that can be measured and used as a tool in the prevention, diagnosis, and treatment of specific illnesses, including cancer.

HB 9781536106084 £185.99 January 2017 Nova Science Publishers 122 pages 155x230mm

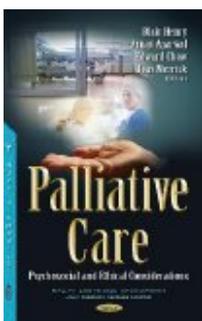


## **Pain Management Yearbook 2016 (Health & Human Development Series)**

Edited by Joav Merrick

In this yearbook for 2016 we present you with some of the latest research on pain management. We start out with chapters on nausea, lead and cancer. Then we move into a whole section on pediatric and adolescent pain. Afterwards a whole section on virtual reality and rehabilitation and finally we have a whole discussion on cannabis and its use in modern day medicine. We hope that you as the reader will find the information of interest and useful.

HB 9781536109498 £295.50 January 2017 Nova Science Publishers 475 pages 180x260mm



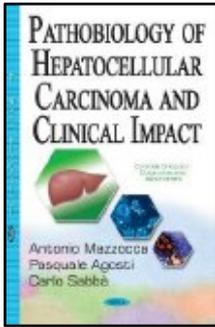
## **Palliative Care**

### **Psychosocial & Ethical Considerations (Health & Human Development Series)**

Edited by Blair Henry, Arnab Agarwal, Edward Chow & Joav Merri

A great number of cancer patients will suffer some form of social, emotional or psychological distress and challenges as a result of the disease and its treatment. Unattended, psychosocial issues can leave patients and families ill-equipped to cope and manage their cancer diagnosis and treatment. When psychosocial care is properly integrated into clinical care, it has a direct impact on the patient's quality of life. Psychosocial aspects must be integrated into routine cancer care. The patient should be screened at their initial visit for psychosocial needs, and survivors should have a treatment plan that includes attention to possible increased anxiety on completing treatment, development of posttraumatic stress symptoms, mixed anxiety and depressive symptoms. The authors cover clinical, psychosocial and end-of-life aspects.

HB 9781536106077 £90.50 January 2017 Nova Science Publishers 145 pages 155x230mm

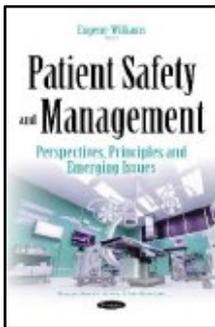


## **Pathobiology of Hepatocellular Carcinoma & Clinical Impact (Cancer Etiology, Diagnosis & Treatments Series)**

Antonio Mazzocca, Pasquale Agosti & Carlo Sabbà

This book offers a comprehensive review on hepatocellular carcinoma (HCC) with a particular focus on the relationship between the pathobiology of disease and the clinical aspects including diagnosis and treatment. HCC is becoming one of the most common causes of cancer related death worldwide and is predicted to be the third leading cause of cancer death by 2030. In recent years, the epidemiology of this tumor has undergone a major change, a revolution considering the increased incidence of HCC on NASH and NAFLD in patients with metabolic risk factors. We are witnessing the emergence of new cancer risk factors and new pre-cancerous conditions, especially in countries with a Western lifestyle. Many exciting discoveries in the field of pathogenesis and mechanisms of carcinogenesis have taken place in recent years, including findings from tumor interactions with the host and the microenvironment. This book aims to provide researchers, medical students and clinicians with a valuable resource for complete and up-to-date research on the pathogenesis of HCC by providing a link between biology and natural history of the disease with clinical implications, including diagnosis, prognosis and therapy. This book offers an in-depth knowledge of HCC pathobiology as well as hints for developing new experimental research lines aiming to improve the understanding and management of the disease.

PB 9781536100020 £90.50 January 2016 Nova Science Publishers 100 pages 155x230mm



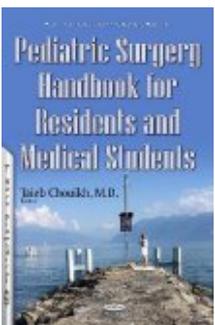
## **Patient Safety & Management**

### **Perspectives, Principles & Emerging Issues (Public Health in the 21st Century Series)**

Edited by Eugene Williams

The harm associated with health care is a questionable issue and several systemic global strategies to reduce it with a safer system are being developed. Despite these efforts, errors continue to happen and one of the most important challenges is to become aware of its real dimension and process-occurrence. This book provides new research on patient safety and management. It discusses different perspectives, principles and reviews emerging issues in the medical field.

PB 9781536107463 £78.50 January 2017 Nova Science Publishers 118 pages 155x230mm

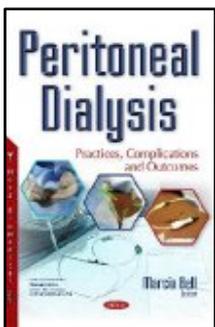


## **Pediatric Surgery Handbook for Residents & Medical Students (Pediatrics -- Laboratory & Clinical Research Series)**

Edited by Taieb Chouikh

This book provides a didactic and fluid approach for medical students and interns, and enables them to understand and integrate the major themes of pediatric surgery. It includes the most common pathologies (hernia, testicular ectopia, etc), the neonatal pathologies, pediatric surgical oncology and a comprehensive chapter on the surgical approach to child injury. The objective of this book is to allow the reader to have a clear and rational approach to the condition being treated. It is not a manual of surgical techniques or pathophysiology, but rather a practical book that attempts to explain in a simple and efficient manner, the diagnostic approach and therapeutic principles in the pediatric surgery field. Several international teams from different countries who share this aim participated in the conception of this work, offering students a manual to guide them in their daily practice of paediatric surgery.

HB 9781536107937 £219.50 January 2017 Nova Science Publishers 300 pages 180x260mm



## **Peritoneal Dialysis**

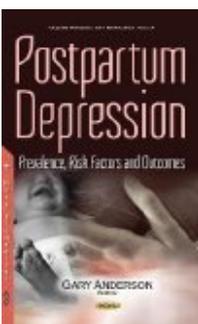
### **Practices, Complications & Outcomes**

#### **(Nephrology Research & Clinical Developments Series)**

Edited by Marcia Bell

This book provides new research on peritoneal dialysis (PD). Chapter One reviews the practices and principles of peritoneal dialysis. Chapter Two focuses on various preventive measures of PD-related infections. Chapter Three discusses combined intermittent peritoneal dialysis and intestinal dialysis in the developing world. Chapter Four describes the use of peritoneal dialysis therapy for chronic heart failure. Chapter Five emphasises on the indications and contraindications of PD and its advantages over hemodialysis. Chapter Six provides an update about the current knowledge in uremic FGF-23-klotho axis disorder and some therapies alternative are displayed.

PB 9781536105155 £78.50 January 2017 Nova Science Publishers 112 pages 155x230mm



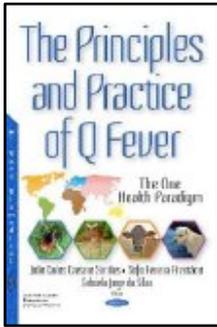
## **Postpartum Depression**

### **Prevalence, Risk Factors & Outcomes (Health Psychology Research Focus Series)**

Edited by Gary Anderson

Postpartum depression (PPD) is a serious mental health condition referring to depressive episodes beginning after childbirth. Recognising the importance of depression occurring both in pregnancy and postpartum, currently, the Diagnostic and Statistical Manual for Mental Disorders-Fifth Edition classifies a depression with a peripartum onset as a depressive episode beginning during pregnancy or within the first four weeks after birth. This book provides new research on the prevalence, risk factors and outcomes that postpartum depression has on women after childbirth.

HB 9781631179259 £90.50 January 2017 Nova Science Publishers 150 pages 155x230mm



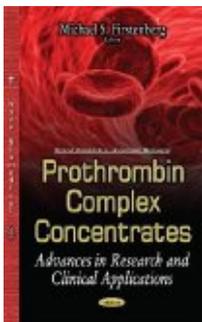
## Principles & Practice of Q Fever

### The One Health Paradigm (Bacteriology Research Developments Series)

Edited by João Carlos Caetano Simoes, Sofia Ferreira Anastácio & Gabriela Jorge da Silva

Q fever was first described in 1937 by Dr. Edward Holbrook Derrick among abattoir workers in Queensland (Australia). This worldwide zoonotic disease caused by the bacterium *Coxiella burnetii* also affects several domestic and wild mammal species, birds and arthropods, which can serve as reservoirs. The transmission between or within populations mainly occurs via inhalation or ingestion of this bacterium, which is also classified as a category B bioterrorism agent. Consequently, the epidemiological triad (i.e., agent, host and environment) assumes a crucial significance for the scientific knowledge of *C. burnetii* to understand its dynamic circulation within animal and human ecosystems and its pathogenicity in different populations. All of these aspects are deeply discussed in the present book. Moreover, risk factors, spatial epidemiology, the impact of climate change, pathogenicity, diagnosis in animals and humans, diagnostic and typing methods, and immunity improvement against *C. burnetii* within hosts are also described. Other than scientific research, this book also reports evidence-based medicine attained by several expert researchers in biological sciences, medical doctors and veterinary physicians, and their vision regarding Q fever trends and challenges. A significant amount of comprehensive information based on the One Health approach is shared with the readers. We expect that the contents of this book, as an integrated and holistic update about Q fever and its etiologic agent *C. burnetii*, may contribute to a better comprehension of this important and widespread zoonosis, to trigger and fuel scientific research, which will undoubtedly aid in the improvement of world biosafety.

HB 9781536108514 £257.50 January 2017 Nova Science Publishers 485 pages 180x260mm



## Prothrombin Complex Concentrates

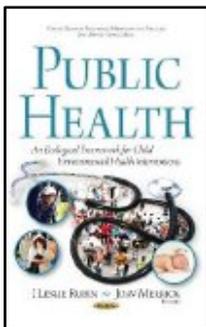
### Advances in Research & Clinical Applications

#### (Recent Advances in Hematology Research Series)

Edited by Michael S Firstenberg

As the population ages and elderly co-morbidity becomes more complex, innovative therapies have been developed to assist in the management of these medical problems. While such therapies have been shown to improve the quantity and quality of life, they often will come with inherent risks/complications – complications that can be potentially life threatening. Two such categories of therapies are anti-coagulants and anti-platelet agents. However, such therapies are associated with a significant increased risk for bleeding and bleeding related complications. These complications, while occasionally spontaneous, can also present the need for invasive procedures, like surgery. Unfortunately, the parallel development of effective reversal agents or antidotes for these therapies has not kept pace. As such, there are growing concerns that traditional therapies for the treatment of bleeding – regardless of the etiology and magnitude – are less than ideal. Agents for the management of bleeding, such as blood products, single agent recombinant factors, and bio-surgical agents all have a role. However, each has limitations with regards to effectiveness, cost, and risk. Unfortunately, while there are some therapies that specifically target defects in the clotting cascades, rarely is a single agent sufficient enough to solve the clinical problem at hand. Prothrombin complex concentrates represent a novel class of compounds that are evolving into a critical tool for the management of bleeding and bleeding related complications.

HB 9781536106947 £90.50 January 2017 Nova Science Publishers 180 pages 155x230mm



## Public Health

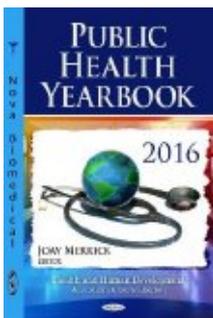
### An Ecological Framework for Child Environmental Health Interventions

#### (Public Health: Practices, Methods & Policies Series)

Edited by I Leslie Rubin & Joav Merrick

The "Break the Cycle" program has been an annual academic event since 2005, recruiting students from many different disciplines and departments at different universities across the United States and the world, to break the cycle of environmental health disparities. The chapters in this book range from descriptive narratives to analyses and intervention studies. They cover everything from considering prenatal vulnerabilities of the fetus, to the outcomes of premature newborn infants through personal, family, community and social perspectives, to grandparents who are taking care of their grandchildren with disabilities; they look at health, nutrition, education and community responsibility. Most importantly, these chapters inform the reader about children's environmental health disparities, and provide solutions to reduce and eliminate these health disparities.

HB 9781536107005 £90.50 January 2017 Nova Science Publishers 170 pages 155x230mm

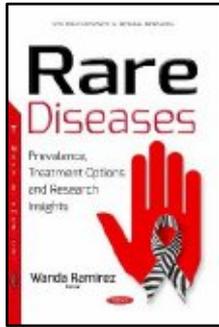


## Public Health Yearbook 2016 (Health & Human Development Series)

Edited by Joav Merrick

Presents you with the epidemiology of arboviruses in Zambia, social work and health inequalities, papers on the risk of HIV/AIDS transmission among adolescents in English speaking Caribbean and many more papers on current public health issues. We bring you paper from the Social Work and Health Inequalities Network (SWHIN) created to combat the causes and consequences of unjust and damaging, socially-produced health inequalities on an international basis. This is accomplished through the sustaining of a global network of social work researchers, educators, practitioners, policy makers, managers, and others working together to promote research, discussion, and action around the world. This global network aims to exchange information and resources (e.g., research evidence, policy statements, systematic reviews of literature, relevant and emerging theories and practice models); collaborate on research and publication; develop and exchange examples of good practice, including good research praxis; develop and exchange ideas on teaching about health inequalities at all curriculum levels; and influence policy making wherever possible.

HB 9781536109474 £295.50 January 2017 Nova Science Publishers 500 pages 180x260mm

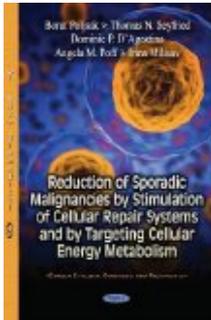


**Rare Diseases**  
**Prevalence, Treatment Options & Research Insights**  
**(New Developments in Medical Research Series)**

Edited by Wanda Ramirez

This book provides new research insights on rare diseases. Chapter One reviews the use of patients' registries as a key tool in rare disease management. Chapter Two discusses the worldwide experience with cytoreductive surgery (CRS) and hyperthermic intraperitoneal chemotherapy (HIPEC) for patients with rare abdominal and pelvic neoplasms with peritoneal metastases that should be evaluated for long-term benefit. Chapter Three explores the contribution of psychology-related research on Congenital Anomalies (CAs) from the analysis of international scientific literature.

PB 9781536108040 £78.50 January 2017 Nova Science Publishers 95 pages 155x230mm

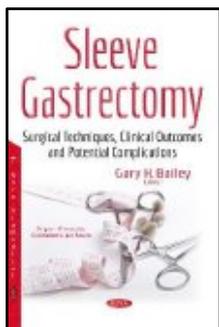


**Reduction of Sporadic Malignancies by Stimulation of Cellular Repair Systems & by Targeting Cellular Energy Metabolism**  
**(Cancer Etiology, Diagnosis & Treatments Series)**

Borut Poljsak, Thomas N Seyfried, Dominic P D'Agostino, Angela M Poff & Irina Milisav

About 40% of the population in the industrialised world will develop cancer at some point in their lives, and about half of these people will be cured. Unfortunately, however, approximately one in four Americans alone will die from cancer (over 560,000 Americans each year). Tomasetti and Vogelstein have recently reported that nearly two-thirds of all cancers are caused by random mutations of the body's stem cells. The more random mutations accumulate, the higher the risk of unchecked cell growth, which is a hallmark of cancer development. Knowing the causes of the tumour formation should allow for the development of preventative measures. But what if a tumour is formed due to random mutations during the individual's lifetime? Are there any preventive methods aside from early detection? Reducing the amount of replicative errors must decrease the accumulation rate of random mutations. In this book, the authors provide an overview of approaches that could influence the formation of cancers caused by random mutations, with a focus on methods aimed at modulating genomic stability and/or strengthening the damage repair processes. Targeting cell metabolism through exposure to moderate stress induced by caloric restriction, physical activity or mimetic compounds can activate endogenous defence mechanisms and cellular repair processes.

PB 9781536107739 £78.50 January 2017 Nova Science Publishers 70 pages 155x230mm

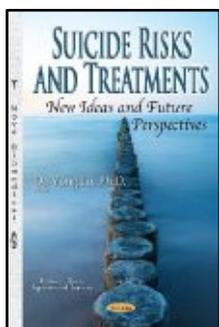


**Sleeve Gastrectomy**  
**Surgical Techniques, Clinical Outcomes & Potential Complications**  
**(Surgery -- Procedures, Complications & Results Series)**

Edited by Gary H Bailey

The prevalence of obesity is increasing day-by-day and is the epidemic of the 21st century. In a recent analysis by WHO, it was found that 1.9 billion people aged 18 years or more were overweight, out of which 600 million were obese. The world obesity population has doubled over the last two decades. Obesity is associated with many diseases. Some of them are diabetes, hypertension, hyperlipidemia, asthma, degenerative bone disease, obstructive sleep apnea, which cause debilitating problems in the obese and add to the cost of health care. Increased body mass index (BMI), abdominal fat and weight gain are important risk factors associated with the development of type II diabetes mellitus (T2DM). About 90% of people with T2DM are obese. Bariatric surgery is now a well-established procedure for treating morbid obesity and its associated comorbidities. Sleeve gastrectomy is becoming the most popular procedure to date owing to its technical simplicity and less malnutrition. This book reviews surgical techniques, clinical outcomes and potential complications of sleeve gastrectomy.

PB 9781536110050 £78.50 January 2017 Nova Science Publishers 108 pages 155x230mm

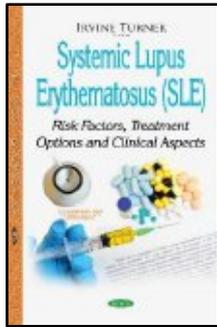


**Suicide Risks & Treatments, New Ideas & Future Perspectives**  
**(Psychiatry -- Theory, Applications & Treatments Series)**

Edited by Da-Yong Lu

Suicidal events and episodes are very deadly to most who suffer from debilitating forms of depression, and generate great sums of money loss and are an economic burden on society. Since suicidal events and episodes can generate from a long list of causes including social, cognitive, behavioural, physical and possibly genetic categories, targeted forms of therapy can be subjectively established. As a result, different types of inhibitory approaches and measures are indispensable for improving the therapeutic outcomes for this undesired circumstance. This book encompasses ideas, scientific discoveries, and pharmaceutical breakthroughs to help combat suicide. It contains topics of historical aspects concerning progress in trying to end suicide; different categories of environmental factors affecting suicidal occurrences; predictive and diagnostic improvements with modern state-of-the-art technology; pathogenic processes of suicide; and a future perspective overall of suicide studies. The author has taken novel initiatives that will be addressed and highlighted within the text. Finally, the author hopes this publication will shed new light on a global scale of the horrible effects suicide can have, and the steps being taken to prevent it.

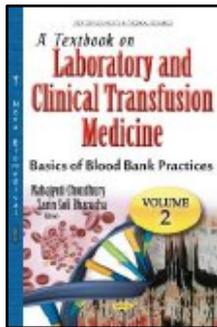
PB 9781536106015 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm



**Systemic Lupus Erythematosus (SLE)**  
**Risk Factors, Treatment Options & Clinical Aspects**  
**(Immunology & Immune System Disorders Series)**  
Edited by Irvine Turner

Being diagnosed with Systemic Lupus Erythematosus (SLE) can be a severe disappointment, and life after diagnosis can be defined as an existence filled with uncertainty as to the short-and long-term impact of the disease. SLE is a chronic multi-system autoimmune disease that is persistent and recurrent and has the potential of becoming life threatening. The manifestations and severity of the disease varies between individuals. SLE can potentially influence nearly all of the body's organ systems. In this book, Chapter One reviews, Raynaud's phenomenon (RP), one of the nonspecific skin changes that occur in SLE. Chapter Two presents the debate on the causes of fatigue in SLE and factors that increase fatigue. Chapter Three reviews and illustrates the important findings of musculoskeletal diseases in SLE. Chapter Four examines SLE in young adults and reviews information about the pain, social impact, and interventions to improve functioning of these young adults.

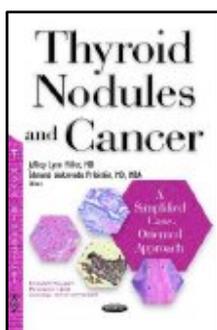
PB 9781536106701 £78.50 January 2017 Nova Science Publishers 90 pages 155x230mm



**Textbook on Laboratory & Clinical Transfusion Medicine**  
**Volume 2: Basics of Blood Bank Practices (Process Control)**  
**(New Developments in Medical Research Series)**  
Edited by Nabajyoti Choudhury & Zarin Soli Bharucha

There have been very rapid advances in scientific, technical, clinical, and administrative areas of transfusion medicine since the beginning of this millennium, which need to be propagated among the workers in the field. This book is a vital tool for managerial, technical, and clinical staff in understanding the specific issues in the subject, which provide information regarding the particular aspects in the three volumes of the book. This publication was intended to provide a helpful resource to many workers in the technical and clinical fields as well as trainees and academia in the subject of transfusion medicine. The authors from developed and developing countries have contributed their knowledge in current technology, clinical support, and managerial issues. Editors have applied special attention to select authors who have practical experience on working the ground level of their specialties, especially in developing countries. A total of eighty authors across the globe have contributed fifty chapters in this three-volume textbook. Translating scientific advances to the patient creates an exciting environment for training. The textbooks in transfusion medicine are expensive for students and workers from developing countries. To achieve cost efficiency, this book is divided into three volumes: Organization and Management, Basics of Blood Bank Practices, and Good Clinical Transfusion Practices. It is thus possible to procure/buy the volume required for a specific purpose from an interested person, either from transfusion medicine or from allied specialties. The chapters in all three volumes are concise and thorough in regards to the subject for the administrative, laboratory, and clinical practices. The editors and authors have endeavored much to provide practical and instructive chapters from which readers will be able to find useful and detailed information on the subject. The editors have taken care to incorporate the necessary topics by inviting authors experienced in those subjects to write chapters providing up-to-date information. Due care is taken in editing those chapters by the editors and their associates besides the language editor. All three volumes are easily readable and full of stimulating and enlightening informative material described by these experienced authors. This book will provide a helpful resource for supporting and improving technical skills of all those who work in the field of transfusion medicine. It will keep them abreast with latest developments for the management of transfusion medicine departments and laboratories as well as assuring quality, reliability, and safety in their workplaces.

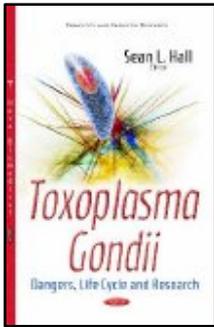
HB 9781634849784 £257.50 January 2017 Nova Science Publishers 480 pages 180x260mm



**Thyroid Nodules & Cancer**  
**A Simplified Case Oriented Approach**  
**(Cancer Etiology, Diagnosis & Treatments Series)**  
Edited by Jeffrey Lynn Miller & Edmund deAzevedo Pribitkin

This practical guide to the management of thyroid nodules and cancer offers the practitioner a common-sense approach to the management of an increasingly common clinical problem. Thyroid cancer is the most rapidly increasing cancer diagnosis in the United States and is now the fifth most common cancer among women. Indeed, an estimated 65,000 adults (15,000 men and 50,000 women) in the United States will be diagnosed this year with thyroid cancer. Many more will be treated for thyroid nodules. Unfortunately, practice patterns still vary greatly across the country and the world. Many patients we believe are inappropriately treated. Practitioners seeking to help their patients and make sense of conflicting thyroid cancer guidelines will discover illustrative cases that represent common situations in clinical practice. Unlike encyclopaedic guidelines and impenetrable textbooks, this straightforward casebook engages, informs and entertains the reader. Even so, the book's scenarios cover a broad range of clinical presentations from incidental microcarcinomas to invasive metastatic cancers. Here, molecular diagnostics and advanced imaging are demystified and incorporated into common-sense approaches stressing the importance of personalised care.

PB 9781536106367 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm

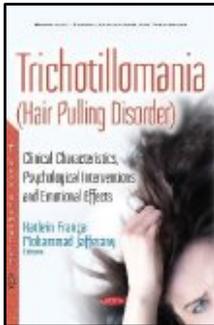


## **Toxoplasma Gondii Dangers, Life Cycle & Research (Parasites & Parasitic Diseases Series)**

Edited by Sean L Hall

*Toxoplasma gondii* is an obligate intracellular parasite that infects 10-20% of the overall population in the US with rates increasing with age. *T. gondii* infects most warm blooded animals where an antibody response is generated to control the infection, however, the parasite forms bradyzoite cysts in brain and muscle. It can only reproduce in felines where oocytes are excreted in the feces. Infection can occur by a variety of routes. In cats, infection occurs by eating infected prey, primarily rodents or birds. Infection in humans can occur by eating undercooked infected meat, handling infected cat feces, ingesting oocytes on unwashed fruits or vegetables, or drinking contaminated water. Another important route of infection is congenital infection. This book discusses the potential risks this parasitic infection may cause. It also reviews the parasite's life cycle.

PB 9781536110678 £78.50 January 2017 Nova Science Publishers 132 pages 155x230mm

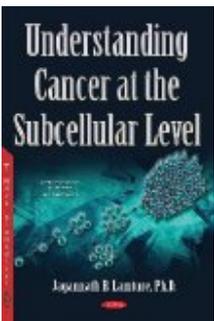


## **Trichotillomania Clinical Characteristics, Psychological Interventions & Emotional Effects (Psychiatry -- Theory, Applications & Treatments Series)**

Edited by Katlein Franca & Mohammad Jafferany

Trichotillomania is defined as recurrent pulling of one's own hair, leading to marked hair loss and functional impairment. This disease involves irresistible and recurrent urges to pull out hair from the scalp, eyebrows, eyelashes or other areas of the body. Hair pulling from the scalp often causes patchy bald spots, which causes significant distress to the patient, and can interfere with work and social activities. This disease causes tremendous impact on a patient's mental health and quality of life, particularly if it is left untreated. Different treatment options can help patients reduce their hair pulling or stop entirely. The book is edited by the physicians specialised in psychodermatologist Katlein Franca and Mohammad Jafferany, presents a comprehensive overview of this important and neglected disease. A team of experts brings a historical review of trichotillomania, the role of trichotillomania in the upcoming field of trichopsychodermatology, dermatopathological overview, pharmacological and non-pharmacological treatments and the emotional regulation hypothesis of trichotillomania, basic concepts, advances, updates, pathophysiological and neuro-anatomical aspects of trichotillomania. This book is aimed at educating dermatologists, psychiatrists, psychologists and therapists to have a broader view of trichotillomania, and brings a different perspective in diagnosing and managing this disease.

PB 9781536108545 £78.50 January 2017 Nova Science Publishers 82 pages 155x230mm

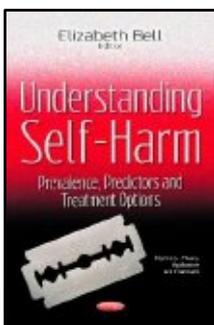


## **Understanding Cancer at the Subcellular Level (Cancer Etiology, Diagnosis & Treatments Series)**

Jagannath B Lamture

The human life is considered most vital of all the living creatures on Earth because humans are bestowed with the highest level of cognition. One can enjoy life if the natural gift, the body, is in a good or healthy condition. A disease is an abnormal condition of the body resulting from infections, toxicity, unfavourable environmental conditions, or illness due to inherited genetic defects in the body. In the past, contagious diseases like the plague resulted in widespread death. About 100 years ago tuberculosis (TB), which is caused by a single bacteria, was one of the deadliest diseases. However, today even a fourth stage TB patient can live a normal life after receiving the allopathic treatment. Unfortunately, that is not the case with cancer. Today cancer is the most dreaded disease and the #1 killer worldwide. Unlike TB, cancer is difficult to treat as there are over 100 different types of cancers. However, with a communal undying zeal and drive for finding a cure for cancer, a lot of progress has been made recently in treating different types of cancers, some of them resulting in total cure. The book delves into the root cause of cancer, which is the mutations in DNA molecules or genes. Further, it elaborates on the risk factors which cause mutations in genes. The internal causes are either inherited faulty genes from one of the parents or changes in genes due to the cell's internal microenvironments; the external risk factors are many, such as age, alcohol, food, tobacco, etc. If your health is in good condition, that means your genes are quite healthy. If DNA or genes are mutated, it leads to cancer development.

HB 9781634857000 £219.50 January 2016 Nova Science Publishers 290 pages 180x260mm

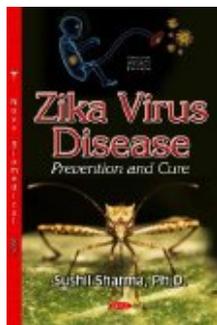


## **Understanding Self-Harm Prevalence, Predictors & Treatment Options (Psychiatry -- Theory, Applications & Treatments Series)**

Edited by Elizabeth Bell

This book provides new research on the prevalence, predictors and treatment options for individuals who self-harm. The first chapter describes the frequency and nature of self-harm in patients with schizophrenia and determines whether personality features, defined as temperament and character dimensions, as well as impulsivity features, are predictors of self-harm behaviors in patients with schizophrenia. Chapter Two provides a broad overview of suicide incidence among males in different regions and eras marked by the social factors that are commonly suggested to be related to male suicidality: political turmoil, economic recession and unemployment, war, and access to lethal means. Chapter Three discusses clinical insight for understanding suicidal behaviour among those with origins on the Indian sub-continent. Chapter Four reviews non-suicidal self-injury in a Flemish population.

PB 9781536108569 £78.50 January 2017 Nova Science Publishers 100 pages 155x230mm



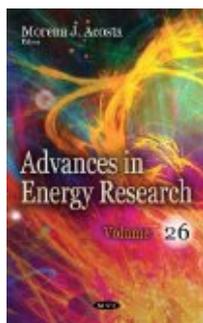
## **Zika Virus Disease Prevention & Cure (Virology Research Progress Series)**

Sushil Sharma

The author was motivated to write this important book because currently there is no systematically-written document on the ZIKV disease, which could serve at this crucial moment as a textbook for medical students, physicians, nurses, and other healthcare providers as well as a reference book for basic researchers, professors, and the general public. The original concept of ZIKV-Charnolopathy due to compromised mitochondrial bioenergetics in highly vulnerable (neural progenitor cells, spermatocytes, oocytes etc.) cells and its amelioration by physiological and/or pharmacological interventions is based on years of research experience. This book describes unique organ and disease-specific Charnoly body (CB) inhibitors, charnolophagy inducers, CB sequestration inhibitors, and charnolophagosome stabilisers as promising charnolopharmacotherapeutics.

HB 9781536107692 £219.50 January 2017 Nova Science Publishers 420 pages 180x260mm

## **PHYSICS**

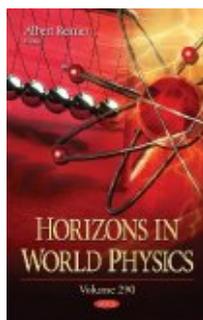


## **Advances in Energy Research Volume 26 (Advances in Energy Research Series)**

Edited by Morena J Acosta

This latest volume includes contributions on the latest advances in energy research. Chapter One discusses heat transfer in micro-ducts. Chapter Two addresses the description and analysis of volume holographic elements for solar concentrating systems based on the detailed simulation of the energy amount and profile along with the spectral distribution delivered onto the solar receiver. Chapter Three reviews the impact of using thin alloyed capping layers (CLs) for InAs/GaAs quantum dot (QD) solar cells. Chapter Four examines the development of soap based thermal insulation for buildings as a sustainable alternative to the petroleum based counterparts, whilst decreasing the associated environmental costs. Chapter Five analyses the simulation of spark plasma sintering for the preparation of inhomogeneous thermoelectric materials for energy generators.

HB 9781536111033 £238.50 January 2017 Nova Science Publishers 206 pages 155x230mm

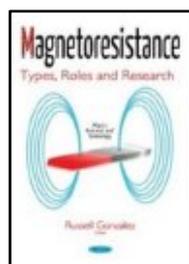


## **Horizons in World Physics Volume 290 (Horizons in World Physics Series)**

Edited by Albert Reimer

This book presents the latest developments in world physics. Chapter One presents the principles of small angle neutron scattering oriented towards the study of complex macromolecular, biological and hybrid nanoassemblies. Chapter Two reviews how a synergistic use of quasielastic neutron scattering (QENS) and Molecular Dynamics (MD) can help shed light on the complex behaviour of confined fluids. Chapter Three discusses the testing of multi-layer structures for refractometric optical sensing performances. Chapter Four addresses the physical analysis of planetary hyperspectral images by massive inversion. Chapter Five provides a brief incursion into the realm of pulsars. Chapter Six analyses the rotation stability of the neutron stars on the observed periodic radiation of radio pulsars.

HB 9781536107975 £238.50 January 2017 Nova Science Publishers 210 pages 155x230mm

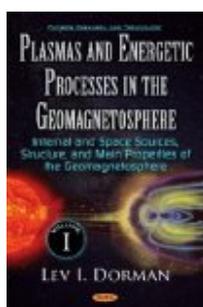


## **Magnetoresistance Types, Roles & Research (Physics Research & Technology Series)**

Edited by Russell Gonzalez

Magnetoresistance is an effect associated with the change of the quanta of the magnetic field due to the energy emission by the atom. In this book, Chapter One discusses magnetoresistive multilayers using various iron oxides and their characteristics. Chapter Two examines magnetoresistance connected with quantum electron transitions in the hydrogen atom. Chapter Three focuses on giant injection magnetoresistance in ferromagnet/semiconductor heterostructures.

PB 9781536105988 £78.50 January 2017 Nova Science Publishers 90 pages 155x230mm

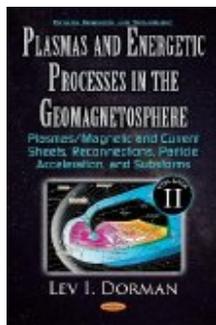


## **Plasmas & Energetic Processes in the Geomagnetosphere Volume I -- Internal & Space Sources, Structure, & Main Properties of Geomagnetosphere (Physics Research & Technology Series)**

Lev I Dorman

The importance and actuality of the Geomagnetosphere's research are based on following three factors: 1. The Geomagnetosphere is the nearest giant natural laboratory; research is made possible by use of satellites to investigate in detail different plasmas and energetic processes in space caused by the interaction of high kinetic energy solar wind plasmas and their perturbations frozen in Interplanetary Magnetic Fields (IMF) with the rotated main geomagnetic field; 2. Modern technology, economics, navigation, television, internet, radio, military aspects, and the life of people on our planet are strongly connected to the operating systems of many satellites moving inside the geomagnetosphere. Different processes and MCR in the geomagnetosphere influence the operating systems of many satellites and often cause complications, from mild satellite malfunctions to fully destroying their hardwiring; 3. The interaction of CME, ISW, and IIR with the geomagnetosphere leads to the generation of big magnetic storms and decreases precursory effects in Galactic Cosmic Ray (GCR) intensity.

HB 9781634857352 £257.50 January 2017 Nova Science Publishers 450 pages 180x260mm

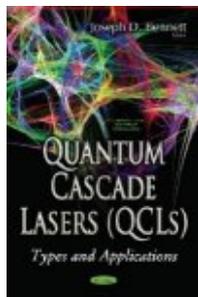


## **Plasmas & Energetic Processes in the Geomagnetosphere Volume II -- Plasmas/Magnetic & Current Sheets, Reconnections, Particle Acceleration, & Substorms (Physics Research & Technology Series)**

Lev I Dorman

The importance and actuality of the geomagnetosphere's research are based on the following three factors: 1. The geomagnetosphere is the nearest giant natural laboratory, where it is possible by multiple satellites and ground measurements to investigate in detail many different plasmas and energetic processes in space; these are caused by the interaction of high kinetic energy solar wind plasmas and their perturbations (Coronal Mass Ejections - CME, Interplanetary Shock Waves – ISW, Interplanetary Interaction Regions – IIR) frozen in Interplanetary Magnetic Fields (IMF) with the rotated main geomagnetic field. This interaction leads to a dynamic transformation in magnetic fields in the geomagnetosphere, generation and trapping of high energy particles (which are also called Magnetospheric Cosmic Rays – MCR), and generation of instabilities and electromagnetic radiations. These processes are in principle similar to processes in magnetospheres of other planets and their moons, in the atmosphere of the Sun and other stars, in interplanetary and in interstellar space, and in many different astrophysical objects. Put simply, this research is an important basis for fundamental space and astrophysical science. 2. In modern times, technology, economics, navigation, television, internet, radio connections, military and all aspects of people's lives on our planet are strongly connected with the work of many satellites moving inside the geomagnetosphere. Different processes and MCR in the geomagnetosphere influence satellites often lead to satellite malfunctions and sometimes fully destroying them. The described research can be considered as a basis for developing methods of forecasting dangerous situations for satellites in different orbits, and to decrease the risk of satellite malfunction and loss. 3. The interaction of CME, ISW, and IIR with the geomagnetosphere leads to the generation of big magnetic storms accompanied with Forbush decrease and precursory effects in Galactic Cosmic Ray (GCR) intensity.

HB 9781536101270 £219.50 January 2016 Nova Science Publishers 400 pages 180x260mm

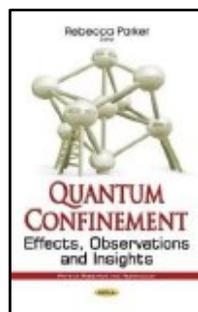


## **Quantum Cascade Lasers (QCLs) Types & Applications (Classical & Quantum Mechanics Series)**

Edited by Joseph D Bennett

Quantum cascade lasers (QCLs) are unipolar devices with lasing occurring through transitions between quantised energy levels within the conduction band. When compared to conventional lasers (e.g. gas, liquid or solid state lasers), these new optoelectronic devices present a fundamental advantage that resides in their ability to tailor the wavelength of the emitted light via the layer thickness rather than the band gap. This book discusses different types and applications of quantum cascade lasers.

PB 9781536103878 £78.50 January 2016 Nova Science Publishers 105 pages 155x230mm

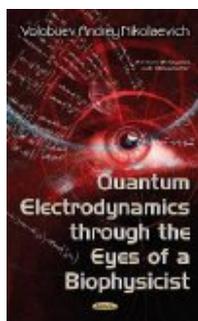


## **Quantum Confinement Effects, Observations & Insights (Physics Research & Technology Series)**

Edited by Rebecca Parker

This book provides new research on the effects and observations of quantum confinement. Chapter One reviews manifestations of the quantum size effect for explaining the high anomalous activity of the metal and metal oxide nanoparticles in heterogeneous catalysis that might be associated with significant modification of their electronic properties compared to bulk materials. Chapter Two discusses quantum confinement effects within a cylindrical potential box. Chapter Three explores symmetry breaking and recoil effects in atomic confinement. Chapter Four scrutinises recent studies on the physical properties of silicon carbide nanowires (SiCNWs), while the wires with various sizes and surface termination hydrogen atoms are inspected by using first-principles method. Chapter Five focuses on scaling limits and quantum confinement in nano-scale silicon transistors.

HB 9781536106725 £152.50 January 2017 Nova Science Publishers 150 pages 155x230mm

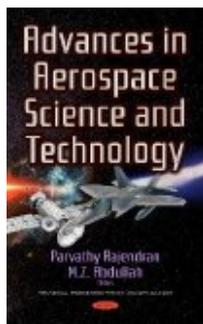


## **Quantum Electrodynamics through the Eyes of a Biophysicist (Physics Research & Technology Series)**

Volobuev Andrey Nikolaevich

In this book, an attempt to augment the physical representations about some phenomena of the quantum electrodynamics in relation to medical physics is made. First of all, the physical theory of an electromagnetic radiation quantum is developed. The Schrodinger's equation for a quantum is found and solved. The quantum length, how it is radiated, what the role of a vacuum in these processes, etc. are shown. The explanation of the quark confinement reason (impossibility to leave a hadron by a quark) is given. With the help of the Feynman's diagram method, some physical processes playing an important role in medical physics are analysed in detail: annihilation of the electrons and positrons in photons, breaking of the electrons in an electric field of a nucleus, changing of the quantum polarisation direction at the interaction site with molecules, etc. The use of Feynman's diagram method makes the loss of some physical phenomena accompanying a researched physical process possible, in particular the Doppler effect. On the basis of the quantum electrodynamics, the modern methods of diagnostics are investigated: a positron-emission tomography and a magneto-resonant tomography. Their developmental processes are also discussed.

HB 9781536104677 £185.99 January 2017 Nova Science Publishers 250 pages 155x230mm

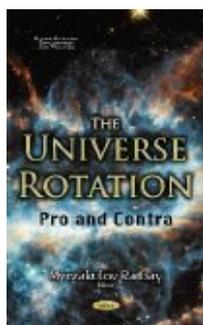


### **Advances in Aerospace Science & Technology (Space Science, Exploration & Policies Series)**

Edited by Parvathy Rajendran & M Z Abdullah

Aerospace science and technology have made remarkable progress in the last century. Although a few publications have been written on this topic, most are inadequate in elucidating the various advanced technologies developed in recent years. For this reason, publishing a book in which prominent researchers elaborate and discuss their research efforts in conjunction with other efforts seems logical. In this book, the most accurate and current materials were gathered, reviewed, and presented by an exceptional group of experts. This book presents state-of-the-art, current developments and applications in aerospace. This is an edited book composed of the following chapters: Aeroelasticity: An Overview; Nanocomposites in Aerospace Structure; Fire Structural Behavior of Aerospace Composites; Implementation of Biofuel in Aircraft Engines; Aircraft Mission Profile Analysis and Trajectory Optimization; Controller Design for a Hybrid UAV; Magnetic Attitude Control of a Small Satellite; CubeSat Technology in Satellite Development; Ionosphere Perturbation Modeling in an Equatorial Region through Electromagnetic Wave Propagation; Computer Simulation of Membrane Airfoil with Fluid/Structure Interaction.

HB 9781536110999 £90.50 January 2017 Nova Science Publishers 200 pages 155x230mm

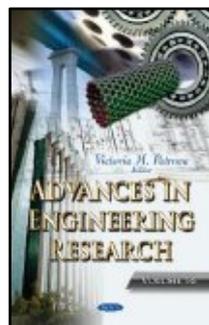


### **Universe Rotation Pro & Contra (Space Science, Exploration & Policies Series)**

Edited by Myrzakulov Ratbay

The paradox of global universe rotation, as it seems, is today one of its greatest mysteries of nature. The idea originated less than a hundred years, and getting the most correct answer was possible only after the creation of modern cosmology. In this book, the authors forward their visions on the universal rotation problem. At the same time, the arguments in favor of its global rotation absence are presented as well. In fact, different theoretical and observational aspects of evidence that supports the possible rotation of the universe on different cosmological scales were investigated. It was shown that there are correlations between angular momentum and size of the structures. The presented observational picture is that the galaxies, their pairs and compact groups have a non vanishing angular momentum. Moreover, these momenta have the definite tendency to their alignment. An analysis of the distribution of position angles of more than ten thousand extended radio sources shows that the spatial orientation of axes of these objects is anisotropic: they are mostly oriented not in the direction of the celestial pole, but rather in the equatorial direction. The probability that the sky distribution of axes is isotropic is less than 0.00004. It was argued that our universe rotates differentially. Based on the spinning part of Papapetrou's equations, it was shown that the rotation radically depends on the properties of the epoch of universal growth. The universe's angular velocities have been calculated for three main cosmological epochs: the matter dominated epoch, the transient from matter to vacuum dominated epoch, and the vacuum dominated epoch. In the framework of general relativity, the nonstationary Bianchi type VIII cosmological models with rotation were proposed. As the sources of gravity have been chosen, they are known as comoving perfect fluid with non-comoving dust, comoving perfect fluid with pure radiation, and comoving anisotropic fluid. All of the models contain a rotating dark energy. Recent observations, such as the anomalies in the temperature angular distribution of the cosmic microwave background (CMB), indicate a preferred direction in the universe. The foundation of modern cosmology, however, relies on a homogeneous and isotropic distribution of matter on large scales. Here, the authors consider the preferred axis in the CMB parity violation. The authors also found that this axis coincides with the preferred axes of the CMB quadrupole and octopole, and they all align with the direction of the CMB kinematic dipole, which does not have a cosmological origin. The several exact non-stationary Goedel-type solutions that belong to a large class of shear-free spatially homogeneous spacetimes were presented. The observational effects of the universal rotation in cosmology are analyzed. It was shown that the pure cosmic rotation does not produce either causality violations, parallax effects, or anisotropy of the microwave background radiation. A possible way to detect the cosmic rotation is to search for the angular dependencies of the standard cosmological tests, and a number of new observations can be proposed.

HB 9781536105087 £152.50 January 2017 Nova Science Publishers 154 pages 155x230mm

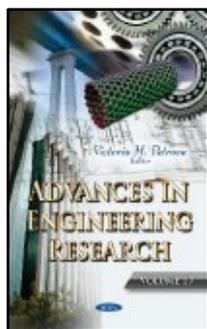


### **Advances in Engineering Research Volume 16 (Advances in Engineering Research Series)**

Edited by Victoria M Petrova

This book focuses on the latest developments in the field of engineering. Chapter One presents the mathematical modeling of an electric power distribution network segment using the PLC technology, through the use of a traditional model. Chapter Two proposes a framework which incorporates scale-reduction and offers two variants which use different scale reduction approaches. Chapter Three discusses recent advances in nonlinear shock vibration isolation. Chapter Four examines the modelling of biological neuron by electronic circuit and application for IC and MEMS microrobot. In Chapter Five, after an introductory part dealing with the basic of cosmic ray physics and with the main properties of the cosmic ray time variations, several numerical analyses of cosmic ray data collected by a neutron monitor station in small time steps over more than 50 years has been carried out with different methods, to investigate periodical and non-periodical patterns. Chapter Six investigates and evaluates an ensemble of approaches for skin detection based on different classifiers, colour space and colour constancy pre-processing.

HB 9781536105193 £238.50 January 2017 Nova Science Publishers 200 pages 155x230mm

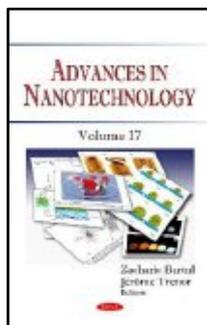


## Advances in Engineering Research Volume 17 (Advances in Engineering Research Series)

Edited by Victoria M Petrova

This book focuses on the latest developments in the field of engineering. CONTENTS: Preface; Terrain Classification Using Single-Pol Synthetic Aperture Radar; RFID Corrosion Monitoring Sensors: An Application of the Electromagnetic Interference (EMI) Shielding Principle; Exploring Emergence in Simple Agent-Based Models; Zombie-Based Modeling; QKD Assistant Procedures for Future Optical Communication Systems; How to Maintain Buildings: Intervention Strategies for the Operationalization Process of Building Maintenance Regarding the Design Stages; The Assessment of Auditoriums' Acoustic Performances; Multivariate Statistical Factor & Cluster Analysis on Selecting the Optimum Method for the Recycling of Kitchen Wastes; Index.

HB 9781536110395 £238.50 January 2017 Nova Science Publishers 260 pages 155x230mm

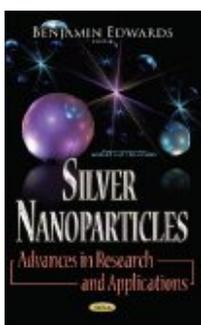


## Advances in Nanotechnology Volume 17 (Advances in Nanotechnology Series)

Edited by Zacharie Bartul & Jérôme Trenor

Nanotechnology is the study of the controlling of matter on an atomic and molecular scale and is also very diverse, ranging from extensions of conventional device physics to completely new approaches based upon molecular self-assembly. This book gathers and presents data on nanotechnology. Chapter One examines the role of atomic particles and nanoparticles in catalysis. Chapter Two reviews the preparations of nanoporous microelectrodes, their physical and electrochemical characterisation, their electrochemical behaviors, and their promising applications. Chapter Three studies controllable growth methods for device applications of gold nanorods. Chapter Four provides an overview of various antibody-nanoparticle conjugating modalities and their potential clinical application. Chapter Five reviews the numerous methods available to fabricate delivery systems depending upon the physicochemical properties of active ingredients and the polymers.

HB 9781536110043 £238.50 January 2017 Nova Science Publishers 224 pages 155x230mm

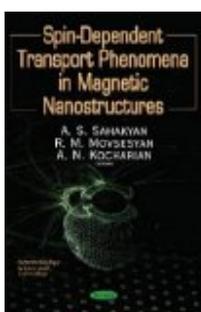


## Silver Nanoparticles Advances in Research & Applications (Nanotechnology Science & Technology Series)

Edited by Benjamin Edwards

Nanotechnology is a ground breaking scientific innovation with significant activities that includes the production and application of nanostructures. It is an emerging technology that will contribute to economic prosperity by providing solutions to challenges that face modern day economies for the sustainability of mankind's development. Its applications cut across many scientific boundaries, from electronics to medicine, to advance manufacturing, to cosmetics. Silver nanoparticles are the most widely produced and marketed nanoparticles. This is due to their outstanding plasmonic activity, anti-cancer activity, disinfectant, bacterial inhibitory and bactericidal effects compared with the other metal nanoparticles. This book provides new research on the advances and the many applications of silver nanoparticles.

HB 9781536105513 £152.50 January 2017 Nova Science Publishers 170 pages 155x230mm

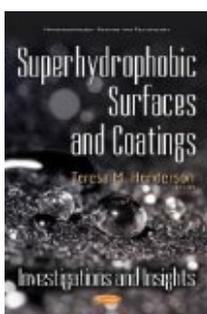


## Spin $S=1/2$ Dependent Phenomena of Fermions in Magnetic Nanostructures & Nanoelements (Nanotechnology Science & Technology Series)

A S Sahakyan, R M Movsesyan & A N Kocharian

The scattering of spin one-half fermions (electrons and neutrons) in multilayer systems containing magnetic nano-elements is a broad avenue for revealing transport properties of materials such as conductance, coherent (ballistic) resistance, and the spin polarization of the electric current. The spin dependent scattering is also a diagnostic tool for the study of magnetic structures of magnetic elements themselves (neutrons). From a theoretical point of view, the solution of one-dimensional scattering problem is reduced to the transfer matrix problem of the spin-polarized (unpolarised) waves on a system consisting of finite potential barriers, characterized by classical magnetization vectors. Their combination together with the vector of the spin polarization of the incident wave (if it is polarized) forms a system of allocated general collinear, and in some cases noncoplanar to the interface directions. As a result, the system becomes more complex and rich with additional degrees of freedom (so-called degrees of noncollinearity). The transport and magnetic characteristics are substantially dependent on these degrees of freedom, and in many cases allow the governing of them. The systems are interesting from the viewpoint of the possibility to design nano devices with predetermined properties, as well as the possibility of tuning those properties due to the additional degrees of freedom.

PB 9781536102765 £78.50 January 2017 Nova Science Publishers 115 pages 155x230mm



## Superhydrophobic Surfaces & Coatings Investigations & Insights (Nanotechnology Science & Technology Series)

Edited by Teresa M Henderson

This book provides new research on superhydrophobic surfaces and coatings. Chapter One reviews preparation and applications of silicone based superhydrophobic coatings. Chapter Two discusses the recent progress of bioinspired superhydrophobic surfaces generated by one step laser ablation technique. Chapter Three analyses the most modern techniques of superhydrophobic surface design and methods of its characterisation. Chapter Four examines rapid fabrication of hierarchical microstructures on biomimetic polymer surfaces with gradually tuneable water adhesion from slippery to sticky superhydrophobicity.

PB 9781536108316 £78.50 January 2017 Nova Science Publishers 70 pages 155x230mm







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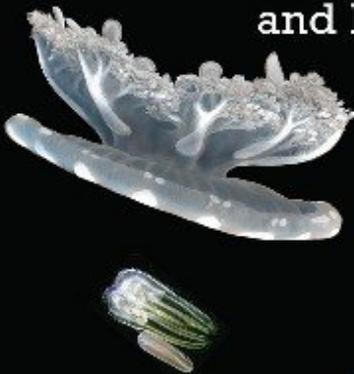
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FISH, FISHING AND FISHERIES



# Jellyfish

Ecology, Distribution Patterns  
and Human Interactions



Gian Luigi Mariottini  
Editor



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