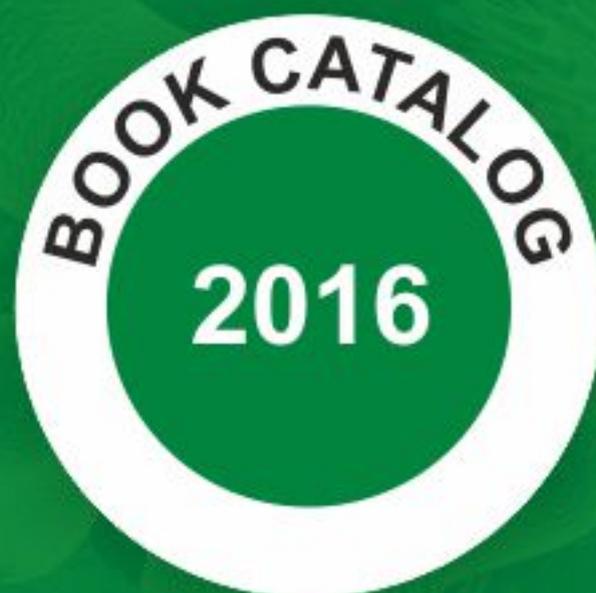


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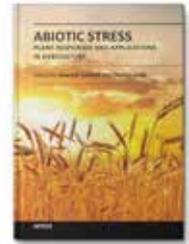
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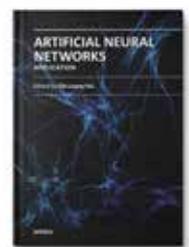
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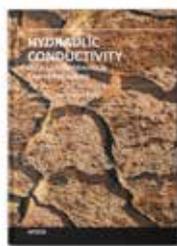
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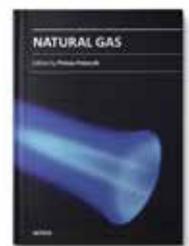
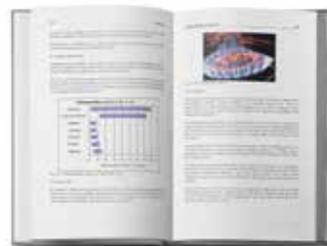
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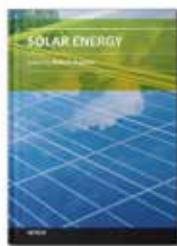
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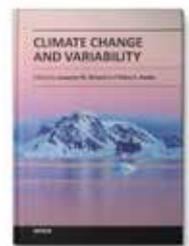
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Agricultural Science

Editor: Godwin Aflakpui

This book covers key areas in agricultural science, namely crop improvement, production, response to water, nutrients, and temperature, crop protection, agriculture and human health, and animal nutrition. The contributions by the authors include manipulation of the variables and genetic resources of inheritance of quantitative genes, crop rotation, soil water and nitrogen, and effect of temperature on flowering. The rest are protecting crops against insect pests and diseases, linking agriculture landscape to recreation by humans, and small ruminant nutrition. This book is a valuable addition to the existing knowledge and is especially intended for university students and all professionals in the field of agriculture.



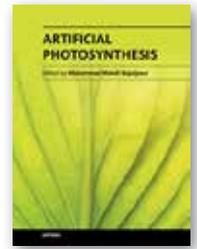
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Artificial Photosynthesis

Editor: Mohammad Najafpour

Photosynthesis is one of the most important reactions on Earth, and it is a scientific field that is intrinsically interdisciplinary, with many research groups examining it. We could learn many strategies from photosynthesis and can apply these strategies in artificial photosynthesis. Artificial photosynthesis is a research field that attempts to replicate the natural process of photosynthesis. The goal of artificial photosynthesis is to use the energy of the sun to make different useful material or high-energy chemicals for energy production. This book is aimed at providing fundamental and applied aspects of artificial photosynthesis. In each section, important topics in the subject are discussed and reviewed by experts.



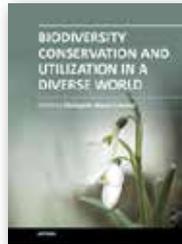
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Biodiversity Conservation and Utilization in a Diverse World

Editor: Gbolagade Akeem Lameed

This book "Biodiversity Conservation and Utilization in a Diverse World" sees biodiversity as management and utilization of resources in satisfying human needs in multi-sectional areas including agriculture, forestry, fisheries, wildlife and other exhaustible and inexhaustible resources. Its value is to fulfill actual human preferences and variability of life is measured by amount of genetic variation available. In viewing diversity as an ultimate moral value, one is faced with a situation in environmental preservation in order to allow components of total diversity to flourish and constitute a threat to continuous existence and decrease total diversity. The overall importance described economic benefits from bio-diversity, though difficult to measure and varying...



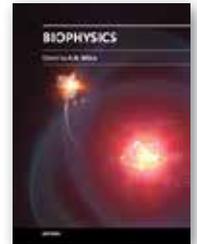
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Biophysics

Editor: A.N. Misra

Biophysics is a vast cross-disciplinary subject encompassing the fields of biology, physics and computational biology etc in microbes, plants, animals and human being. Wide array of subjects from molecular, physiological and structural are covered in this book. Most of these chapters are oriented toward new techniques or the application of techniques in the novel fields. The contributions from scientists and experts from different continents and countries focus on major aspects of biophysics. The book covers a wide range of topics reflecting the complexity of the biological systems. Although the field of biophysics is ever emerging and innovative, the recent topics covered in this book are contemporary and application-oriented in the field of biology, agriculture, and medicine. This book contains mainly...



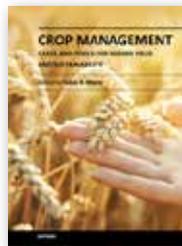
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Crop Management - Cases and Tools for Higher Yield and Sustainability

Editor: Fabio Marin

Agricultural production is related to physical constrains, which may not always be overcome by technology. However, under the same conditions, it is possible to see well-managed farms consistently making greater profits than similarly structured, neighboring farms. For each abiotical condition, it is well-known there is a difference between the potential and observed yields, which is usually high and often could be reduced through more appropriate management techniques. In this book, we have a selection of agricultural problems encountered in different regions of the world which were addressed using creative solution, offering new approaches for well-known techniques and new tools for old problems.



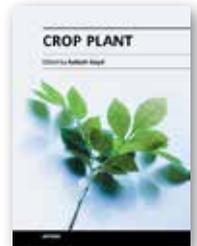
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Crop Plant

Editor: Aakash Goyal

This book provides us a thorough overview of Crop Plant with current advance in research. Divided into two section based on the chapters contents. Chapter 1 provides information about markers and next generation sequencing technology and its use. Chapter 2 is about how we can use Silicon for Drought tolerance. Chapter 3 is to deal with the major problem of rising CO2 and O3 causing environmental pollution. Chapter 4 covers the phenomena of RNAi and its use, application in crop science. Chapter 5 is a review for boron deficiency in soils and how to deal with it for better crops. Chapter 6-10 provide some information regarding recent works going on in crop science.



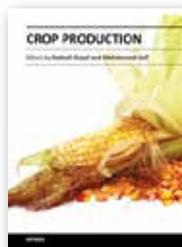
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Crop Production

Editor: Aakash Goyal

Humans are depended on crops for food, fiber and more recently for fuel. Demands for crop production in rising because of increasing population, change in food habits and biofuel consumption. The book focus on challenges, progress and prospects of crop production. It comprises of vast array of topics including latest agronomics practices for different crops to enhance productivity, mitigate the challenges imposed by climate change, improve water use efficiency, factors controlling dormancy, optimum use of fertilizers etc. This volume will serve as an excellent resource for students and researchers interested and working in the area of sustainable crop production.



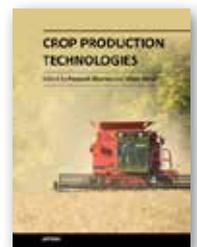
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Crop Production Technologies

Editor: Peeyush Sharma

Crop production depends on the successful implementation of the soil, water, and nutrient management technologies. Food production by the year 2020 needs to be increased by 50 percent more than the present levels to satisfy the needs of around 8 billion people. Much of the increase would have to come from intensification of agricultural production. Importance of wise usage of water, nutrient management, and tillage in the agricultural sector for sustaining agricultural growth and slowing down environmental degradation calls for urgent attention of researchers, planners, and policy makers. Crop models enable researchers to promptly speculate on the long-term consequences of changes in agricultural practices. In addition, cropping systems, under different conditions, are making it...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Current Topics in Phylogenetics and Phylogeography of Terrestrial and Aquatic Systems

Editor: Kesara Anamthawat-Jónsson

Mapping phylogenetics on geographical scales is one of the most important scientific aspects of bioscience research. Changes in the environment have evidently shaped the geographical distribution of organisms on land and in the oceans seen today. Overexploitation of key species has caused not only changes in the distribution and diversity of organisms and composition of the ecosystems, but is also leading to species extinction at accelerating rates. It is our duty as scientists to find ways of protecting the species endangered with extinction and preventing other species from entering the endangered stage. To manage this...



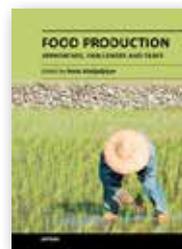
ISBN: 978-953-51-0217-5 • Hard cover, 144 Pages
Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Food Production - Approaches, Challenges and Tasks

Editor: Anna Aladjadjyan

This book is devoted to food production and the problems associated with the satisfaction of food needs in different parts of the world. The emerging food crisis calls for development of sustainable food production, and the quality and safety of the food produced should be guaranteed. The book contains thirteen chapters and is divided into two sections. The first section is related to social issues rising from food insufficiency in the third world countries, and is titled "Sustainable food production: Case studies". The case studies of semi-arid Africa, Caribbean and Jamaica, Burkina Faso, Nigeria, Pacific Islands, Mexico and Brazil are discussed. The second section, titled "Scientific Methods for Improving Food Quality and Safety", covers the methods for control and avoidance...



ISBN: 978-953-307-887-8 • Hard cover, 270 Pages
Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Food Quality

Editor: Kostas Kapisris

The book discusses the novel scientific approaches for the improvement of the food quality and offers food scientists valuable assistance for the future. The detailed methodologies and their practical applications could serve as a fundamental reference work for the industry and a requisite guide for the research worker, food scientist and food analyst. It will serve as a valuable tool for the analysts improving their knowledge with new scientific data for quality evaluation. Two case study chapters provide data on the improvement of food quality in marine and land organisms in the natural environment.



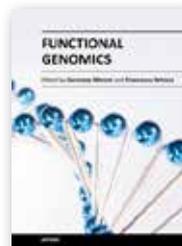
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Functional Genomics

Editor: Germana Meroni

This book titled "Functional Genomics" contains a selection of chapters focused on crucial topics in functional genomics, from the analysis of the genetic code, to the understanding of the role of the different genes and to the proteomic implications. The book provides an overview on basic issues and some of the recent developments in medicinal science and technology. Covering all the aspects involved in such a broad theme as functional genomics and in all its applications would be impossible within the same book. The different chapters represent a brief introduction to the topic, connecting the most promising developments in functional genomics technologies, focusing on specific applications in biomedicine, agro-food technologies and zootechniques.



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Fungicides - Beneficial and Harmful Aspects

Editor: Nooruddin Thajuddin

Fungicides are a class of pesticides used for killing or inhibiting the growth of fungus. They are extensively used in pharmaceutical industry, agriculture, in protection of seed during storage and in preventing the growth of fungi that produce toxins. Hence, fungicides production is constantly increasing as a result of their great importance to agriculture. Some fungicides affect humans and beneficial microorganisms including insects, birds and fish thus public concern about their effects is increasing day by day. In order to enrich the knowledge on beneficial and adverse effects of fungicides this book encompasses various aspects of the fungicides including fungicide resistance, mode of action, management fungal pathogens and defense mechanisms, ill effects...



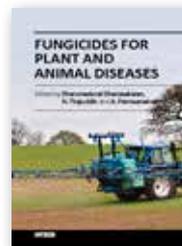
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Fungicides for Plant and Animal Diseases

Editor: Dharumadurai Dhanasekaran

A fungicide is a chemical pesticide compound that kills or inhibits the growth of fungi. In agriculture, fungicide is used to control fungi that threaten to destroy or compromise crops. Fungicides for Plant and Animal Diseases is a book that has been written to present the most significant advances in disciplines related to fungicides. This book comprises of 14 chapters considering the application of fungicides in the control and management of fungal diseases, which will be very helpful to the undergraduate and postgraduate students, researchers, teachers of microbiology, biotechnology, agriculture and horticulture.



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Horticulture

Editor: Alejandro Isabel Luna Maldonado

This book is about the novel aspects and future trends of the horticulture. The topics covered by this book are the effect of the climate and soil characteristics on the nitrogen balance, influence of fertilizers with prolongation effect, diversity in grapevine gene pools, growth and nutrient uptake for tomato plants, post-harvest quality, chemical composition and antioxidant activity, local botanical knowledge and agrobiodiversity, urban horticulture, use of the humectant agents in protected horticulture as well as post-harvest technologies of fresh horticulture produce. This book is a general reference work for students, professional horticulturalists and readers with interest in the subject.



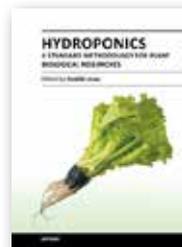
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Hydroponics - A Standard Methodology for Plant Biological Researches

Editor: Toshiki Asao

Hydroponics-A standard methodology for plant biological researches provides useful information on the requirements and techniques needs to be considered in order to grow crops successfully in hydroponics. The main focuses of this book are preparation of hydroponic nutrient solution, use of this technique for studying biological aspects and environmental controls, and production of vegetables and ornamentals hydroponically. The first chapter of this book takes a general description of nutrient solution used for hydroponics followed by an outline of in vitro hydroponic culture system for vegetables. Detailed descriptions on use of hydroponics in the context of scientific research into plants responses and tolerance to abiotic stresses and on the problems associated...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Insecticides - Basic and Other Applications

Editor: Sonia Soloneski

It is our hope that this book will be of interest and use not only to scientists, but also to the food-producing industry, governments, politicians and consumers as well. If we are able to stimulate this interest, albeit in a small way, we have achieved our goal.



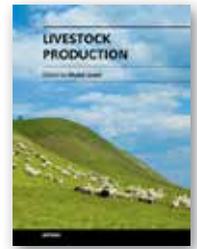
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Livestock Production

Editor: Khalid Javed

Innumerable publications on livestock production are available in the world market. The book under discussion has not been produced to burden the market with another such publication rather it has been brought out employing a novice format to meet the requirements of students, researchers who are working in different parts of the world in different environments.



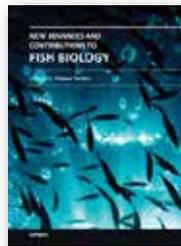
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AGRICULTURAL AND BIOLOGICAL SCIENCES

New Advances and Contributions to Fish Biology

Editor: Hakan Turker

This book provides an understanding on a large variety of related topics in fish biology. The further development on molecular and cellular biology and ecology leads to assimilate the newer scientific knowledge in this area. Leading research works from around the world are brought together in this book to produce a valuable source of reference for teachers, researcher, and advanced students of biological science. The first three chapters of this book give a general description of the complex biology of the immune response. Detailed descriptions were also included on understanding of cytokine regulation in teleost immune system. The second three chapters provide information on the environmental stressors on the responses of freshwater fish across molecular to...



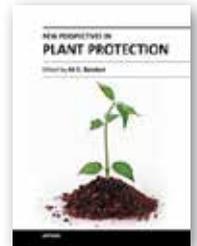
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AGRICULTURAL AND BIOLOGICAL SCIENCES

New Perspectives in Plant Protection

Editor: Ali R. Bandani

Crop losses by pests (insects, diseases and weeds) are as old as plant themselves but as agriculture are intensified and cropping patterns including the cultivation of high yielding varieties and hybrids are changing over time the impact of the pests becoming increasingly important. Approximately less than 1000 insect species (roughly 600-800 species), 1500-2000 plant species, numerous fungal, bacterial and nematode species as well as viruses are considered serious pests in agriculture. If these pests were not properly controlled, crop yields and their quality would drop, considerably. In addition production costs as well as food and fiber prices are increased. The current book is going to put Plant Protection approaches in perspective.



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Oilseeds

Editor: Uduak G. Akpan

As the cultivation of brassica crops continues to contribute to western diets, new approaches to maximizing yields are welcome. This book presents chapters on various aspects of this issue, with a particular focus on canola crops and the oil produced from them. Those chapters address the relevance of transgenic and molecular breeding techniques to develop cold tolerance in Brassica napus L. crops grown over the winter in North America, the effects of seed-placed ammonium sulphate and monoammonium phosphate on the germination and growth of brassicae oilseed crops and the cultivation of high-erucic Brassicaceae in a Mediterranean environment. Other chapters cover oil presses, sesame seeds and oilseed pests, as well as the nitrogen efficiency of oilseed rape.



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Organic Farming and Food Production

Editor: Petr Konvalina

Organic farming does not mean going "back" to traditional (old) methods of farming. Many of the farming methods used in the past are still useful today. Organic farming takes the best of these and combines them with modern scientific knowledge. The goal was to write a book where as many different existing studies as possible could be presented in a single volume, making it easy for the reader to compare methods, results and conclusions. As a result, studies from countries such as Romania, Poland, The Czech Republic, Mexico, Slovenia, Finland, etc. have been compiled into one book. The opportunity to compare results and conclusions from different countries and continents will create a new perspective in organic farming and food production as well as help researchers and students from...



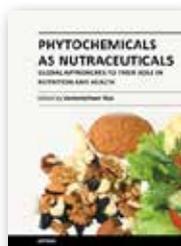
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Phytochemicals as Nutraceuticals - Global Approaches to Their Role in Nutrition and Health

Editor: Venketeshwer Rao

Phytochemicals are biologically active compounds present in plants used for food and medicine. A great deal of interest has been generated recently in the isolation, characterization and biological activity of these phytochemicals. This book is in response to the need for more current and global scope of phytochemicals. It contains chapters written by internationally recognized authors. The topics covered in the book range from their occurrence, chemical and physical characteristics, analytical procedures, biological activity, safety and industrial applications. The book has been planned to meet the needs of the researchers, health...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Breeding from Laboratories to Fields

Editor: Sven Bode Andersen

Breeding of crop plants to make them more adapted to human agricultural systems has been on-going during domestication the last 10 000 years. However, only recently with the invention of the Mendelian principles of genetics and the subsequent development of quantitative genetics during the twentieth century has such genetic crop improvement become based on a general theory. During the last 50 years plant breeding has entered a molecular era based on molecular tools to analyse DNA, RNA and proteins and associate such molecular results with plant phenotype. These marker trait associations develop fast to enable more efficient breeding. However, they still leave a major part of breeding to be performed through selection of phenotypes using quantitative genetic...



ISBN: 978-953-51-1090-3 • Hard cover, 288 Pages
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plants and Environment

Editor: Hemanth Vasanthaiah

Changing environmental condition and global population demands understanding the plant responses to hostile environment. Significant progress has been made over the past few decades through amalgamation of molecular breeding with non-conventional breeding. Understanding the cellular and molecular mechanisms to stress tolerance has received considerable scientific scrutiny because of the uniqueness of such processes to plant biology, and also its importance in the campaign "Freedom From Hunger". The main intention of this publication is to provide a state-of-the-art and up-to-date knowledge of recent developments in understanding of plant responses to major abiotic stresses, limitations and the current status of crop improvement. A better insight will help in...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Recent Advances in Fish Farms

Editor: Faruk Aral

The world keeps changing. There are always risks associated with change. To make careful risk assessment it is always needed to re-evaluate the information according to new findings in research. Scientific knowledge is essential in determining the strategy for fish farming. This information should be updated and brought into line with the required conditions of the farm. Therefore, books are one of the indispensable tools for following the results in research and sources to draw information from. The chapters in this book include photos and figures based on scientific literature. Each section is labeled with references for readers to understand, figures, tables and text. Another advantage of the book is the "systematic writing" style of each chapter. There are several existing scientific volumes that focus...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Recent Advances in Plant in vitro Culture

Editor: Annarita Leva

The purpose of this book is to provide the advances in plant in vitro culture as related to perennial fruit crops and medicinal plants. Basic principles and new techniques, now available, are presented in detail. The book will be of use to researchers, teachers in biotechnology and for individuals interested to the commercial application of plant in vitro culture.



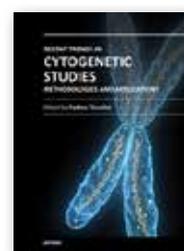
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Recent Trends in Cytogenetic Studies - Methodologies and Applications

Editor: Padma Tirunilai

Recent Trends in Cytogenetic Studies - Methodologies and Applications deals with recent trends in cytogenetics with minute details of methodologies that can be adopted in clinical laboratories. The chapters deal with basic methods of primary cultures, cell lines and their applications; microtechnologies and automations; array CGH for the diagnosis of fetal conditions; approaches to acute lymphoblastic and myeloblastic leukemias in patients and survivors of atomic bomb exposure; use of digital image technology and using chromosomes as tools to discover biodiversity. While concentrating on the advanced methodologies in cytogenetic studies and their applications, authors have pointed out the need to develop cytogenetic labs...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Resource Management for Sustainable Agriculture

Editor: Vikas Abrol

In this book, papers pertaining to resource management for sustainable agricultural development are presented in four parts divided into ten chapters. Part I discusses the usage of water and waste management for sustainable agricultural development including aspects like irrigation management to prevent soil and ground water salinization, production of solid fuel from oil palm waste, sustainable ecomaterials and biorefinery from agroindustrial waste, nonpoint pollution from agriculture and livestock activities on surface water. Part II discusses sustainable management of dryland resources especially carbon sequestration under changing climate scenario. Part III deals with efficient nutrient management for sustainable crop productivity in different agro-climatic conditions...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Sustainable Forest Management - Case Studies

Editor: Julio J. Diez

The concept of forest sustainability dates from centuries ago, although the understanding of sustainable forest management (SFM) as an instrument that harmonizes ecological and socio-economic concerns is relatively new. The change in perspective occurred at the beginning of the 1990s in response to an increased awareness of the deterioration of the environment, in particular of the alarming loss of forest resources. The book collects original case studies from 12 different countries in four continents (Africa, America, Asia and Europe). These studies represent a wide variation of experiences from developing and developed countries, and should clarify the current status of SFM worldwide and the problems associated with its implementation.



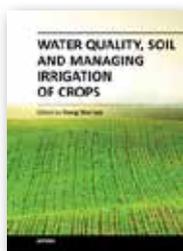
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Water Quality, Soil and Managing Irrigation of Crops

Editor: Teang Shui Lee

The book entitled Water Quality, Soil and Managing Irrigation of Crops comprises three sections, specifically: Reuse Water Quality, Soil and Pollution which comprises five technical chapters, Managing Irrigation of Crops with four, and Examples of Irrigation Systems three technical chapters, all presented by the respective authors in their own fields of expertise. This text should be of interest to those who are interested in the safe reuse of water for irrigation purposes in terms of effluent quality and quality of urban drainage basins, as well as to those who are involved with research into the problems of soils in relation to pollution and health, infiltration and effects of irrigation and managing irrigation systems including basin type of irrigation, as well as the subsurface method...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Weed and Pest Control - Conventional and New Challenges

Editor: Sonia Soloneski

This book covers alternative insect control strategies, such as the allelopathy phenomenon, tactics in integrated pest management of opportunistic generalist insect species, biological control of root pathogens, insect pest control by polyculture strategy, application of several integrated pest management programs, irrigation tactics and soil physical processes, and carbon stocks to manage weeds.



ISBN: 978-953-51-0984-6 • Hard cover, 205 Pages
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Weed Control

Editor: Andrew Price

Crop loss due to weeds has challenged agricultural managers since man began to develop the first farming systems. In the past century, however, much progress has been made to reduce weed interference in crop settings through effective yet mostly non-sustainable weed control strategies. With the commercial introduction of herbicides during the mid-1900's, advancements in chemical weed control tactics have provided efficient suppression of a broad range of weed species for most agricultural practices. Currently, with the necessity to design effective sustainable weed management systems, research has been pushing new frontiers on investigating integrated weed management options including chemical, mechanical as well as cultural practices. Author contributions to Weed Science...

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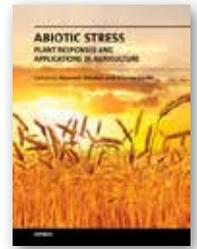
AGRICULTURAL AND BIOLOGICAL SCIENCES

Abiotic Stress - Plant Responses and Applications in Agriculture

Editor: Kourosh Vahdati

This book is not intended to cover all known abiotic stresses or every possible technique used to understand plant tolerance but, instead, to describe some of the widely used approaches to addressing such major abiotic stresses as drought, salinity, extreme temperature, cold, light, calcareous soils, excessive irradiation, ozone, ultraviolet radiation, and flooding, and to describe major or newly emerging techniques employed in understanding and improving plant tolerance. Among the strategies for plant stress survival, examples of both avoidance and tolerance are presented in detail and comprehensive case studies of progress and directions in several agricultural crops such as apple, walnut, grape and wheat are included.

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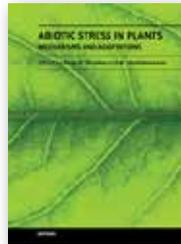
AGRICULTURAL AND BIOLOGICAL SCIENCES

Abiotic Stress in Plants - Mechanisms and Adaptations

Editor: Arun Shanker

World population is growing at an alarming rate and is anticipated to reach about six billion by the end of year 2050. On the other hand, agricultural productivity is not increasing at a required rate to keep up with the food demand. The reasons for this are water shortages, depleting soil fertility and mainly various abiotic stresses. The fast pace at which developments and novel findings that are recently taking place in the cutting edge areas of molecular biology and basic genetics, have reinforced and augmented the efficiency of science outputs in dealing with plant abiotic stresses. In depth understanding of the stresses and their effects on plants is of paramount importance to evolve effective strategies to counter them. This book is broadly divided into sections...

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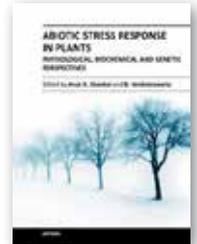
AGRICULTURAL AND BIOLOGICAL SCIENCES

Abiotic Stress Response in Plants - Physiological, Biochemical and Genetic Perspectives

Editor: Arun Shanker

Plants, unlike animals, are sessile. This demands that adverse changes in their environment are quickly recognized, distinguished and responded to with suitable reactions. Drought, heat, cold and salinity are among the major abiotic stresses that adversely affect plant growth and productivity. In general, abiotic stress often causes a series of morphological, physiological, biochemical and molecular changes that unfavorably affect plant growth, development and productivity. Drought, salinity, extreme temperatures (cold and heat) and oxidative stress are often interrelated; these conditions singularly or in combination...

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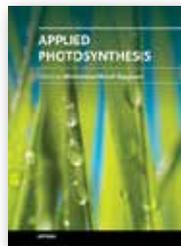
AGRICULTURAL AND BIOLOGICAL SCIENCES

Applied Photosynthesis

Editor: Mohammad Najafpour

Photosynthesis is one of the most important reactions on Earth, and it is a scientific field that is intrinsically interdisciplinary, with many research groups examining it. This book is aimed at providing applied aspects of photosynthesis. Different research groups have collected their valuable results from the study of this interesting process. In this book, there are two sections: Fundamental and Applied aspects. All sections have been written by experts in their fields. The book chapters present different and new subjects, from photosynthetic inhibitors, to interaction between flowering initiation and photosynthesis.

ISBN: 978-953-51-0061-4 • Hard cover, 422 Pages
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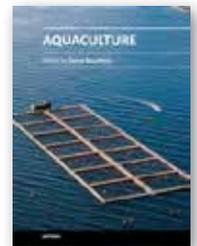
AGRICULTURAL AND BIOLOGICAL SCIENCES

Aquaculture

Editor: Zainal Muchlisin

This book provides an understanding on a large variety of aquaculture related topics. The book is organized in four sections. The first section discusses fish nutrition second section is considers the application of genetic in aquaculture; section three takes a look at current techniques for controlling lipid oxidation and melanosis in Aquaculture products. The last section is focused on culture techniques and management, which is the larger part of the book. The book chapters are written by leading experts in their respective areas. Therefore, I am quite confident that this book will be equally useful for students and professionals in aquaculture and biotechnology.

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Food Industrial Processes - Methods and Equipment

Editor: Benjamin Valdez

The global food industry has the largest number of demanding and knowledgeable consumers: the world population of seven billion inhabitants, since every person eats! This population requires food products that fulfill the high quality standards established by the food industry organizations. Food shortages threaten human health and are aggravated by the disastrous, extreme climatic events such as floods, droughts, fires, storms connected to climate change, global warming and greenhouse gas emissions that modify the environment and, consequently, the production of foods in the agriculture and husbandry sectors. This collection of articles is a timely contribution to issues relating to the food industry. They were selected for use as a primer, an...

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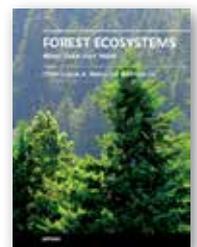
AGRICULTURAL AND BIOLOGICAL SCIENCES

Forest Ecosystems - More than Just Trees

Editor: Juan A. Blanco

The common idea for many people is that forests are just a collection of trees. However, they are much more than that. They are a complex, functional system of interacting and often interdependent biological, physical, and chemical components, the biological part of which has evolved to perpetuate itself. This complexity produces combinations of climate, soils, trees and plant species unique to each site, resulting in hundreds of different forest types around the world. Logically, trees are an important component for the research in forest ecosystems, but the wide variety of other life forms and abiotic components in most forests means that other elements, such as wildlife or soil nutrients, should also be the focal point in ecological studies and management plans to be carried out in...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Fungicides - Showcases of Integrated Plant Disease Management from Around the World

Editor: Mizuho Nita

This book comprised of three sections that focus various aspects of fungicide usages and its consequences. In the eight-chapter first section, authors discuss implementation of Integrated Plant Disease Management on a wide array of crops grown in different parts of the world: wheat productions in Argentina and in the US; corn, cotton and Eucalyptus productions in Brazil; rice productions in India; peanut productions in the southern US; and pine seedling nurseries in Serbia. The second section is composed of two chapters that explore the possibility of natural products as fungicides. The final section discusses two...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Irrigation Systems and Practices in Challenging Environments

Editor: Teang Shui Lee

The book Irrigation Systems and Practices in Challenging Environments is divided into two interesting sections, with the first section titled Agricultural Water Productivity in Stressed Environments, which consists of nine chapters technically crafted by experts in their own right in their fields of expertise. Topics range from effects of irrigation on the physiology of plants, deficit irrigation practices and the genetic manipulation, to creating drought tolerant variety and a host of interesting topics to cater for the those interested in the plant water soil atmosphere relationships and agronomic practices relevant in many challenging environments, more so with the onslaught of global warming, climate change and the accompanying agro-meteorological impacts. The second section...



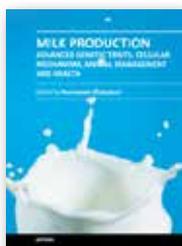
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Milk Production - Advanced Genetic Traits, Cellular Mechanism, Animal Management and Health

Editor: Narongsak Chaiyabutr

Book "Milk Production - Advanced Genetic Traits, Cellular Mechanism, Animal Nutrition and Management" is made for the publication of continuation of advances in the knowledge involving milk production. This book is divided into two main sections and is devoted to more specific consideration of areas with aspects of genetics factors and the molecular and cellular mechanisms, animal management, nutrition and husbandry. This book will be useful for students, researchers, teaching staff, practicing professionals connected with dairy science, animal science, food science, nutrition, physiology, biochemistry, veterinary medicine...



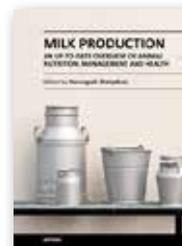
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Milk Production - An Up-to-Date Overview of Animal Nutrition, Management and Health

Editor: Narongsak Chaiyabutr

Book "Milk Production - An Up-to-Date Overview of Animal Nutrition, Management and Health" is organized into three main sections, and is concerned with the animal nutrition, animal management and, breeding and animal health. This book permits the reader's exposure to the expert's experience and scientific style of interpreting and integrating available data into his own views. This book will be useful for students, researchers, teaching staff, practicing professionals connected with dairy science, animal science, food science, nutrition, physiology, biochemistry, veterinary medicine and other related fields. Each chapter in this book...



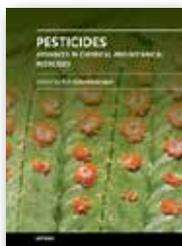
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Pesticides - Advances in Chemical and Botanical Pesticides

Editor: R.P. Soundararajan

Pesticides are considered as potential molecules to combat insects, pests, diseases and weeds in agricultural, horticultural cropping system as well as health management systems. Pesticides of chemical origin are highly effective against the target organism. However, the chemical pesticides have toxic effects on several non-target species and the growing environmental concerns raises the issues of safety and evaluation of toxicity. In this book the effects of chemical pesticides on fishes, earthworms, beneficial microbes and natural enemies in agricultural ecosystems are discussed. Furthermore, pesticides have the properties to disrupt endocrine and non-traditional pesticide compounds have been elaborately narrated. The recent technology on use of biomarkers in...



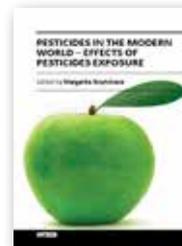
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Pesticides in the Modern World - Effects of Pesticides Exposure

Editor: Margarita Stoytcheva

The introduction of the synthetic organochlorine, organophosphate, carbamate and pyrethroid pesticides by 1950's marked the beginning of the modern pesticides era and a new stage in the agriculture development. Evolved from the chemicals designed originally as warfare agents, the synthetic pesticides demonstrated a high effectiveness in preventing, destroying or controlling any pest. Therefore, their application in the agriculture practices made it possible enhancing crops and livestock's yields and obtaining higher-quality products, to satisfy the food demand of the continuously rising world's population. Nevertheless, the increase of the pesticide use estimated to 2.5 million tons annually worldwide since 1950., created a number of public and environment...



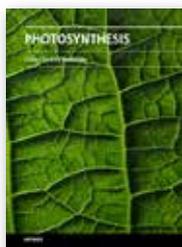
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Photosynthesis

Editor: Zvy Dubinsky

Among the myriads of volumes dedicated to various aspects of photosynthesis, the current one is singular in integrating an update of the most recent insights on this most important biological process in the biosphere. While photosynthesis fuels all the life supporting processes and activities of all living creatures on Earth, from bacteria though mankind, it also created in the first place, our life supporting oxygenic atmosphere, and keeps maintaining it. This volume is organized in four sections: I) Mechanisms, II) Stress effects, III) Methods, and IV) Applications.



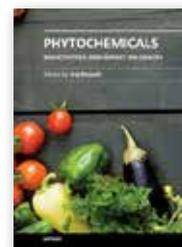
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Phytochemicals - Bioactivities and Impact on Health

Editor: Iraj Rasooli

Among the thousands of naturally occurring constituents so far identified in plants and exhibiting a long history of safe use, there are none that pose - or reasonably might be expected to pose - a significant risk to human health at current low levels of intake when used as flavoring substances. Due to their natural origin, environmental and genetic factors will influence the chemical composition of the plant essential oils. Factors such as species and subspecies, geographical location, harvest time, plant part used and method of isolation all affect chemical composition of the crude material separated from the plant. The screening of plant extracts and natural products for antioxidative and antimicrobial activity has revealed the potential of higher plants as a source of new...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Breeding

Editor: Ibrokhim Abdurakhmonov

Modern plant breeding is considered a discipline originating from the science of genetics. It is a complex subject, involving the use of many interdisciplinary modern sciences and technologies that became art, science and business. Revolutionary developments in plant genetics and genomics and coupling plant "omics" achievements with advances on computer science and informatics, as well as laboratory robotics further resulted in unprecedented developments in modern plant breeding, enriching the traditional breeding practices with precise, fast, efficient and cost-effective breeding tools and approaches. The objective of this Plant Breeding book is to present some of the recent advances of 21st century plant breeding, exemplifying novel views, approaches, research efforts, achievements, challenges...

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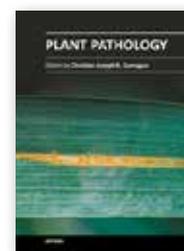
AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Pathology

Editor: Christian Joseph Cumagun

Plant pathology is an applied science that deals with the nature, causes and control of plant diseases in agriculture and forestry. The vital role of plant pathology in attaining food security and food safety for the world cannot be overemphasized.

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Science

Editor: Nabin Kumar Dhal

The book "Plant Science" consists of 12 chapters divided into three sections authored by many researchers from different parts of the Globe. Section-I: Plant and Environment, describes the relationship between plants and environment, particularly enumerating species-environment relationship and response of plants to different environmental stress conditions. Section-II: Plant-Microbe relation, embodies broadly on both positive and negative aspects of microbes on plants. Section-III: Plant Biotechnology, shed light on current biotechnological research to develop modern technology for producing biologicals and also increasing plant immunity in present environmental conditions. The book "Plant Science" will be helpful to a wide group peoples; readers, scientists, researchers and allied professionals...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Problems, Perspectives and Challenges of Agricultural Water Management

Editor: Manish Kumar

Food security emerged as an issue in the first decade of the 21st Century, questioning the sustainability of the human race, which is inevitably related directly to the agricultural water management that has multifaceted dimensions and requires interdisciplinary expertise in order to be dealt with. The purpose of this book is to bring together and integrate the subject matter that deals with the equity, profitability and irrigation water pricing; modelling, monitoring and assessment techniques; sustainable irrigation development and management, and strategies for irrigation water supply and conservation in a single text. The book is divided into four sections and is intended to be a comprehensive reference for students, professionals and researchers working on various aspects of...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Soybean Physiology and Biochemistry

Editor: Hany El-Shemy

Worldwide, soybean seed proteins represent a major source of amino acids for human and animal nutrition. Soybean seeds are an important and economical source of protein in the diet of many developed and developing countries. Soy is a complete protein and soyfoods are rich in vitamins and minerals. Soybean protein provides all the essential amino acids in the amounts needed for human health. Recent research suggests that soy may also lower risk of prostate, colon and breast cancers as well as osteoporosis and other bone health problems and alleviate hot flashes associated with menopause. This volume is expected to be useful for student, researchers and public who are interested in soybean.

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Structure and Function of Food Engineering

Editor: Ayman Amer Eissa

This book conveys many significant messages for the food engineering and allied professions: the importance of working in multidisciplinary teams, the relevance of developing food engineering based on well-established principles, the benefits of developing the field by bringing together experts from industry, academia and government, and the unparalleled advantage of working as globally as possible in the understanding, development, and applications of food engineering principles. I am delighted to welcome this book to the Series and I am convinced colleagues from all parts of the world will gain great value from it.

ISBN: 978-953-51-0695-1 • Hard cover, 404 Pages

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Sustainable Forest Management - Current Research

Editor: Julio J. Diez

Sustainable forest management (SFM) is not a new concept. However, its popularity has increased in the last few decades because of public concern about the dramatic decrease in forest resources. The implementation of SFM is generally achieved using criteria and indicators (C&I) and several countries have established their own sets of C&I. This book summarises some of the recent research carried out to test the current indicators, to search for new indicators and to develop new decision-making tools. The book collects original research studies on carbon and forest resources, forest health, biodiversity and productive, protective and socioeconomic functions. These studies should shed light on the current research carried out to provide forest managers with useful tools...

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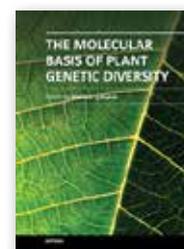
AGRICULTURAL AND BIOLOGICAL SCIENCES

The Molecular Basis of Plant Genetic Diversity

Editor: Mahmut Caliskan

The Molecular Basis of Plant Genetic Diversity presents chapters revealing the magnitude of genetic variations existing in plant populations. Natural populations contain a considerable genetic variability which provides a genomic flexibility that can be used as a raw material for adaptation to changing environmental conditions. The analysis of genetic diversity provides information about allelic variation at a given locus. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in plants and also, the detection of genes influencing economically important traits. The purpose of the book is to provide a glimpse into the dynamic process of genetic variation by presenting the thoughts of scientists who are...

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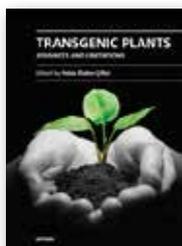
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Transgenic Plants - Advances and Limitations

Editor: Yelda Ozden Çiftçi

Development of efficient transformation protocols is becoming a complementary strategy to conventional breeding techniques for the improvement of crops. Thus, Transgenic Plants - Advances and Limitations covers the recent advances carried on improvement of transformation methods together with assessment of the impact of genetically transformed crops on biosafety. Each chapter has been written by one or more experienced researchers in the field and then carefully edited to ensure thoroughness and consistency.



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AGRICULTURAL AND BIOLOGICAL SCIENCES

A Comprehensive Survey of International Soybean Research - Genetics, Physiology, Agronomy and Nitrogen Relationships

Editor: James Board

Soybean is the most important oilseed and livestock feed crop in the world. These dual uses are attributed to the crop's high protein content (nearly 40% of seed weight) and oil content (approximately 20%); characteristics that are not rivaled by any other agronomic crop. Across the 10-year period from 2001 to 2010, world soybean production increased from 168 to 258 million metric tons (54% increase). Against the backdrop of soybean's striking ascendancy is increased research interest in the crop throughout the world. Information in this book presents a comprehensive view of research efforts in genetics, plant physiology...



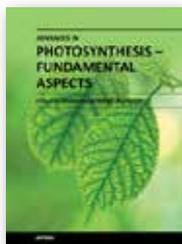
ISBN: 978-953-51-0876-4 • Hard cover, 613 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Advances in Photosynthesis - Fundamental Aspects

Editor: Mohammad Najafpour

Photosynthesis is one of the most important reactions on Earth. It is a scientific field that is the topic of many research groups. This book is aimed at providing the fundamental aspects of photosynthesis, and the results collected from different research groups. There are three sections in this book: light and photosynthesis, the path of carbon in photosynthesis, and special topics in photosynthesis. In each section important topics in the subject are discussed and (or) reviewed by experts in each book chapter.



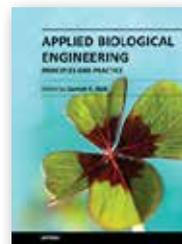
ISBN: 978-953-307-928-8 • Hard cover, 588 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Applied Biological Engineering - Principles and Practice

Editor: Ganesh R. Naik

Biological engineering is a field of engineering in which the emphasis is on life and life-sustaining systems. Biological engineering is an emerging discipline that encompasses engineering theory and practice connected to and derived from the science of biology. The most important trend in biological engineering is the dynamic range of scales at which biotechnology is now able to integrate with biological processes. An explosion in micro/nanoscale technology is allowing the manufacture of nanoparticles for drug delivery into cells, miniaturized implantable microsensors for medical diagnostics, and micro-engineered robots for on-board tissue repairs. This book aims to provide an updated overview of the recent developments in biological engineering from diverse aspects...



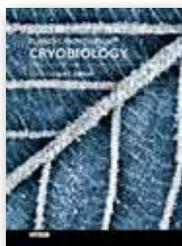
ISBN: 978-953-51-0412-4 • Hard cover, 662 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Current Frontiers in Cryobiology

Editor: Igor Katkov

Almost a decade has passed since the last textbook on the science of cryobiology, Life in the Frozen State, was published. Recently, there have been some serious tectonic shifts in cryobiology which were perhaps not seen on the surface but will have a profound effect on both the future of cryobiology and the development of new cryopreservation methods. We feel that it is time to revise the previous paradigms and dogmas, discuss the conceptually new cryobiological ideas, and introduce the recently emerged practical protocols for cryopreservation. The present books, "Current Frontiers in Cryobiology" and "Current Frontiers in Cryopreservation" will serve the purpose. This is a global effort by scientists from 27 countries from all continents and we hope it will be interesting to a wide audience.



ISBN: 978-953-51-0191-8 • Hard cover, 574 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Fungicides

Editor: Odile Carisse

Plant and plant products are affected by a large number of plant pathogens among which fungal pathogens. These diseases play a major role in the current deficit of food supply worldwide. Various control strategies were developed to reduce the negative effects of diseases on food, fiber, and forest crops products. For the past fifty years fungicides have played a major role in the increased productivity of several crops in most parts of the world. Although fungicide treatments are a key component of disease management, the emergence of resistance, their introduction into the environment and their toxic effect on human, animal, non-target microorganisms and beneficial organisms has become an important factor in limiting the durability of fungicide effectiveness and usefulness. This book contains...



ISBN: 978-953-307-266-1 • Hard cover, 538 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Herbicides - Current Research and Case Studies in Use

Editor: Andrew Price

Herbicide use is a common component of many weed management strategies in both agricultural and non-crop settings. However, herbicide use practices and recommendations are continuously updated and revised to provide control of ever-changing weed compositions and to preserve efficacy of current weed control options. Herbicides - Current Research and Case Studies in Use provides information about current trends in herbicide use and weed control in different land and aquatic settings as well as case studies in particular weed control situations.



ISBN: 978-953-51-1112-2 • Hard cover, 652 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Insecticides - Advances in Integrated Pest Management

Editor: Farzana Khan

This book contains 30 Chapters divided into 5 Sections. Section A covers integrated pest management, alternative insect control strategies, ecological impact of insecticides as well as pesticides and drugs of forensic interest. Section B is dedicated to chemical control and health risks, applications for insecticides, metabolism of pesticides by human cytochrome p450, etc. Section C provides biochemical analyses of action of chlorflazuron, pest control effects on seed yield, chemical ecology, quality control, development of ideal insecticide, insecticide resistance, etc. Section D reviews current analytical methods, electroanalysis of insecticides, insecticide activity and secondary metabolites. Section E provides data contributing to better understanding of...



ISBN: 978-953-307-780-2 • Hard cover, 708 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Insecticides - Development of Safer and More Effective Technologies

Editor: Stanislav Trdan

This book contains 20 chapters about the impact, environmental fate, modes of action, efficacy, and non-target effects of insecticides. The chapters are divided into 7 parts. Part 1 covers the non-target effects of insecticides, whereas part 2 is dedicated to integrated methods for pest control, in which insecticides are an important element for diminishing the populations of insect pests. Part 3 includes chapters about the non-chemical alternatives to insecticides, such as metabolic stress and plant extracts. Insecticides and human health are the main topic of part 4, and the interactions between insecticides and environment are discussed in part 5. Part 6 includes the chapters about insecticides against pests of urban areas, forests and farm animals, whereas...

ISBN: 978-953-51-0958-7 • Hard cover, 548 Pages

Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD



AGRICULTURAL AND BIOLOGICAL SCIENCES

Insecticides - Pest Engineering

Editor: Farzana Khan

This book is compiled of 24 Chapters divided into 4 Sections. Section A focuses on toxicity of organic and inorganic insecticides, organophosphorus insecticides, toxicity of fenitrothion and permethrin, and dichlorodiphenyltrichloroethane (DDT). Section B is dedicated to vector control using insecticides, biological control of mosquito larvae by *Bacillus thuringiensis*, metabolism of pyrethroids by mosquito cytochrome P40 susceptibility status of *Aedes aegypti*, etc. Section C describes bioactive natural products from sapindaceae, management of potato pests, flower thrips, mango mealy bug, pear psylla, grapes pests, small fruit production, boll weevil and tsetse fly using insecticides. Section D provides information on insecticide resistance in natural population of malaria...

ISBN: 978-953-307-895-3 • Hard cover, 538 Pages

Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD



AGRICULTURAL AND BIOLOGICAL SCIENCES

Integrated Pest Management and Pest Control - Current and Future Tactics

Editor: Sonia Soloneski

Integrated Pest Management is an effective and environmentally sensitive approach that relies on a combination of common-sense practices. Its programs use current and comprehensive information on the life cycles of pests and their interactions with the environment. This information, in combination with available pest control methods, is used to manage pest damage by the most economical means and with the least possible hazard to people, property, and the environment.

ISBN: 978-953-51-0050-8 • Hard cover, 668 Pages

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Pesticides in the Modern World - Pests Control and Pesticides Exposure and Toxicity Assessment

Editor: Margarita Stoytcheva

The present book is a collection of selected original research articles and reviews providing adequate and up-to-date information related to pesticides control, assessment, and toxicity. The first section covers a large spectrum of issues associated with the ecological, molecular, and biotechnological approaches to the understanding of the biological control, the mechanism of the biocontrol agents action, and the related effects. Second section provides recent information on biomarkers currently used to evaluate pesticide exposure, effects, and genetic susceptibility of a number of organisms. Some...

ISBN: 978-953-307-457-3 • Hard cover, 614 Pages

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AGRICULTURAL AND BIOLOGICAL SCIENCES

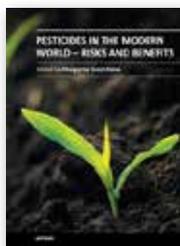
Pesticides in the Modern World - Risks and Benefits

Editor: Margarita Stoytcheva

This book is a compilation of 29 chapters focused on: pesticides and food production, environmental effects of pesticides, and pesticides mobility, transport and fate. The first book section addresses the benefits of the pest control for crop protection and food supply increasing, and the associated risks of food contamination. The second book section is dedicated to the effects of pesticides on the non-target organisms and the environment such as: effects involving pollinators, effects on nutrient cycling in ecosystems, effects on soil erosion, structure and fertility, effects on water quality, and pesticides resistance development. The third book section furnishes numerous data contributing to the better understanding of the pesticides mobility, transport and fate...

ISBN: 978-953-307-458-0 • Hard cover, 560 Pages

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AGRICULTURAL AND BIOLOGICAL SCIENCES

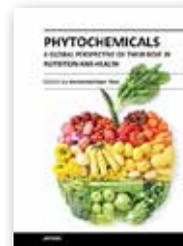
Phytochemicals - A Global Perspective of Their Role in Nutrition and Health

Editor: Venketeshwer Rao

Phytochemicals are biologically active compounds present in plants used for food and medicine. A great deal of interest has been generated recently in the isolation, characterization and biological activity of these phytochemicals. This book is in response to the need for more current and global scope of phytochemicals. It contains chapters written by internationally recognized authors. The topics covered in the book range from their occurrence, chemical and physical characteristics, analytical procedures, biological activity, safety and industrial applications. The book has been planned to meet the needs of the researchers, health professionals, government regulatory agencies and industries. This book will serve as a standard reference book in this important and...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

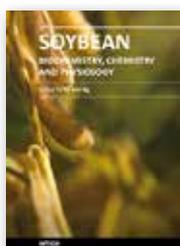
Soybean - Biochemistry, Chemistry and Physiology

Editor: Tzi-Bun Ng

Soybean is an agricultural crop of tremendous economic importance. Soybean and food items derived from it form dietary components of numerous people, especially those living in the Orient. The health benefits of soybean have attracted the attention of nutritionists as well as common people.

ISBN: 978-953-307-219-7 • Hard cover, 642 Pages

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AGRICULTURAL AND BIOLOGICAL SCIENCES

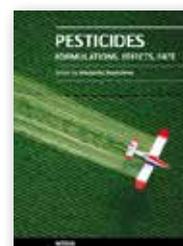
Pesticides - Formulations, Effects, Fate

Editor: Margarita Stoytcheva

This book provides an overview on a large variety of pesticide-related topics, organized in three sections. The first part is dedicated to the "safer" pesticides derived from natural materials, the design and the optimization of pesticides formulations, and the techniques for pesticides application. The second part is intended to demonstrate the agricultural products, environmental and biota pesticides contamination and the impacts of the pesticides presence on the ecosystems. The third part presents current investigations of the naturally occurring pesticides degradation phenomena, the environmental effects of the break down products, and different approaches to pesticides residues treatment. Written by leading experts in their respective areas, the book is highly recommended to the...

ISBN: 978-953-307-532-7 • Hard cover, 808 Pages

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Management Strategies to Adapt Alpine Space Forests to Climate Change Risks

Editor: Gillian Ann Cerbu, Marc Hanewinkel, Giacomo Gerosa and Robert Jandl

Climate scenarios suggest that current forest stands will face radically different temperature and precipitation conditions in the future. Developing future strategies for forest management in the face of uncertain and highly variable forecasts of future site conditions is a great challenge. Here we have analyzed transnational case studies dealing with different manifestations of climate change effects. We intend to stimulate the discussion on management strategies to adapt forests in the Alps to climate change risks. The presented results are derived from the INTERREG project, "Management Strategies to Adapt Alpine Space Forests to Climate Change Risks," that was implemented within the framework of...

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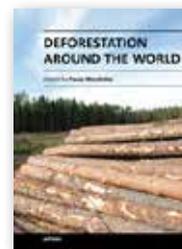
AGRICULTURAL AND BIOLOGICAL SCIENCES

Deforestation Around the World

Editor: Paulo Moutinho

Deforestation and forest degradation represent a significant fraction of the annual worldwide human-induced emission of greenhouse gases to the atmosphere, the main source of biodiversity losses and the destruction of millions of people's homes. Despite local/regional causes, its consequences are global. This book provides a general view about deforestation dynamics around the world, incorporating analyses of its causes, impacts and actions to prevent it. Its 17 Chapters, organized in three sections, refer to deforestation impacts on climate, soil, biodiversity and human population, but also describe several initiatives to prevent it. A special emphasis is given to different remote-sensing and mapping techniques that could be used as a source for decision-makers and society to promote forest conservation and...

ISBN: 978-953-51-0417-9 • Hard cover, 386 Pages
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Global Perspectives on Sustainable Forest Management

Editor: Okia Clement Akais

This book is dedicated to global perspectives on sustainable forest management. It focuses on a need to move away from purely protective management of forests to innovative approaches for multiple use and management of forest resources. The book is divided into two sections; the first section, with thirteen chapters deals with the forest management aspects while the second section, with five chapters is dedicated to forest utilization. This book will fill the existing gaps in the knowledge about emerging perspectives on sustainable forest management. It will be an interesting and helpful resource to managers, specialists and students in the field of forestry and natural resources management.

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Organic Agriculture Towards Sustainability

Editor: Vytautas Pilipavicius

Organic agriculture combines tradition, innovation and science to benefit the shared environment and promotes fair relationships and a good quality of life. This book is a compilation of 11 chapters focused on development of organic agriculture, the role of sustainability in ecosystem and social community, analysis of environmental impacts of the organic farming system and its comparison with the conventional one, crop growing and weed control technologies, organic production, effective microorganisms technology. Continuously, a wide range of research experiments focus on organic agriculture technologies, quality of production, environmental protection and non-chemical, ecologically acceptable alternative solutions. In the book Organic...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Rice - Germplasm, Genetics and Improvement

Editor: Wengui Yan and Jinsong Bao

Rice is a staple food for half of the world's population mostly in Asia. Productivity of rice has largely been improved since the Green Revolution in 1960s. Further improvement of rice yield is necessary to keep pace with population growth, which is a challenging task for breeders. This book, Rice - Germplasm, Genetics and Improvement, as its name implies, comprehensively reviews current knowledge in germplasm exploration, genetic basis of complex traits, and molecular breeding strategies in rice. In the germplasm part, we highlight the application of wild rice in rice breeding. In the genetics part, most of the complex traits related with yield, disease, quality have been covered. In the improvement part, Chinese experiences in hybrid rice breeding have been...

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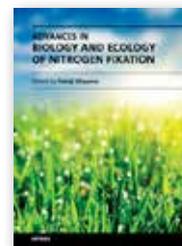
AGRICULTURAL AND BIOLOGICAL SCIENCES

Advances in Biology and Ecology of Nitrogen Fixation

Editor: Takuji Ohyama

Biological nitrogen fixation has essential role in N cycle in global ecosystem. Several types of nitrogen fixing bacteria are recognized: the free-living bacteria in soil or water; symbiotic bacteria making root nodules in legumes or non-legumes; associative nitrogen fixing bacteria that resides outside the plant roots and provides fixed nitrogen to the plants; endophytic nitrogen fixing bacteria living in the roots, stems and leaves of plants. In this book there are 11 chapters related to biological nitrogen fixation, regulation of legume-rhizobium symbiosis, and agriculture and ecology of biological nitrogen fixation, including new models for autoregulation of nodulation in legumes, endophytic nitrogen fixation in sugarcane or forest trees, etc. Hopefully, this book will contribute...

ISBN: 978-953-51-1216-7 • Hard cover, 282 Pages
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Aflatoxins - Detection, Measurement and Control

Editor: Irineo Torres-Pacheco

This book is divided into three sections. The section called Aflatoxin Contamination discusses the importance that this subject has for a country like the case of China and mentions examples that illustrate the ubiquity of aflatoxins in various commodities. The section Measurement and Analysis, describes the concept of measurement and analysis of aflatoxins from a historical perspective, the legal, and the state of the art in methodologies and techniques. Finally the section entitled Approaches for Prevention and Control of Aflatoxins on Crops and on Different Foods, describes actions to prevent and mitigate the genotoxic effect of one of the most conspicuous aflatoxins, AFB1. In turn, it points out interventions to reduce identified aflatoxin-induced illness at...

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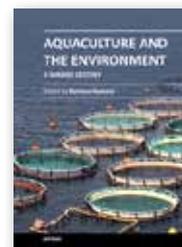
AGRICULTURAL AND BIOLOGICAL SCIENCES

Aquaculture and the Environment - A Shared Destiny

Editor: Barbara Sladonja

Aquaculture is the art, science and business of cultivating aquatic animals and plants in fresh or marine waters. It is the extension of fishing, resulted from the fact that harvests of wild sources of fish and other aquatic species cannot keep up with the increased demand of a growing human population. Expansion of aquaculture can result with less care for the environment. The first pre-requisite to sustainable aquaculture is clean water, but bad management of aquatic species production can alter or even destroy existing wild habitat, increase local pollution levels or negatively impact local species. Aquatic managers are aware of this and together with scientists are looking for modern and more effective solutions to many issues regarding fish farming. This book presents...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Biodegradation - Engineering and Technology

Editor: Rolando Chamy and Francisca Rosenkranz

This book contains a collection of different research activities where several technologies have been applied to the optimization of biodegradation processes. The book has three main sections: A) Hydrocarbons biodegradation, B) Biodegradation and anaerobic digestion, and C) Biodegradation and sustainability.



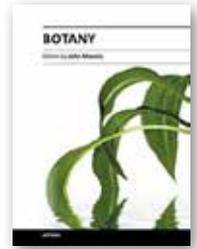
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Botany

Editor: John Kiogora Mworira

This book is devoted to botany and covers topical issues in this diverse area of study. The contributions are designed for researchers, graduate students and professionals. The book also presents reviews of current issues in plant-environment interactions making it useful to environmental scientists as well. The book is organized in three sections. The first section includes contributions on responses to flood stress, tolerance to drought and desiccation, phytotoxicity to Chromium and Lead; the second has aspects of economic botany including a review of Smut disease in sugarcane and properties of plant extract used Tassaboount date juice; the last covers topical issues on morphogenesis and genetics on cotton fiber special cell, secretory glands *Asphodelus aestivus* flower, pollen tube growth in *Leucoujum*...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Abiotic Stress in Plants Vol1

Editor: Multiple Contributors

As the climate becomes more volatile, it is increasingly necessary to understand the effects of abiotic stress on plants, especially in order to develop better adapted crops and more sustainable crop management practices. This is the first volume in the two-volume set, *Abiotic Stress in Plants*, which seeks to bring together up-to-date research in the field. The key areas of focus across the volumes include: the effects and management of abiotic stress factors, such as extreme temperature, drought, water saturation and high UV levels, in agricultural settings; the relationships between plants and environmental factors more generally; plant mechanisms and adaptations for dealing with abiotic stressors such as salt stress, fluctuations in mineral availability, heat and water; the genetics of breeding stress...



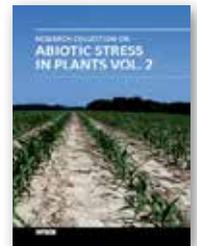
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Abiotic Stress in Plants Vol2

Editor: Multiple Contributors

As the climate becomes more volatile, it is increasingly necessary to understand the effects of abiotic stress on plants, especially in order to develop better adapted crops and more sustainable crop management practices. This is the second volume in the two-volume set, *Abiotic Stress in Plants*, which seeks to bring together up-to-date research in the field. The key areas of focus across the volumes include: the effects and management of abiotic stress factors, such as extreme temperature, drought, water saturation and high UV levels, in agricultural settings; the relationships between plants and environmental factors more generally; plant mechanisms and adaptations for dealing with abiotic stressors such as salt stress, fluctuations in mineral availability, heat and water; the genetics of breeding stress...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Acquaculture

Editor: Multiple Contributors

As wild fish stocks have become depleted all over the world and human population has increased, commercial aquaculture has stepped in to provide us with an economical source of fish and other seafood. However, there has been a price to pay - because farmed fish live in close proximity to each other, they are more prone to disease and parasite infection, and there is concern about the habitat destruction resulting from contamination with fish feces and drugs. Furthermore, some species of farmed fish are carnivores that require fish feed in their diet; this feed is usually obtained from wild sources, a fact that has serious implications for the marine food chain as a whole. This book is a compilation of papers describing current practice in aquaculture, including attempts being made to understand and...



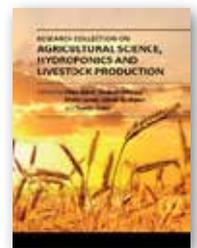
ISBN: 978-953-51-1640-0 • Hard cover, 702 Pages
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Agricultural Science, Hydroponics and Livestock Production

Editor: Multiple Contributors

Farmers have always had to contend with the elements and the effects of pests and diseases on crops and livestock, but modern farming methods are now bringing challenges of their own and with the ever-increasing pressure on resources, it is becoming more and more important to farm sustainably. This book is divided into several sections covering different aspects of farming/agronomy. Subjects discussed include livestock production; agricultural science (e.g. genetics/inheritance, crop rotation techniques, pest control, and fertilization); and sustainable farming methods, including fuel production from agricultural waste and prevention of salinization in soil and groundwater. Further sections will be devoted to oilseed production and to the subject of hydroponics...



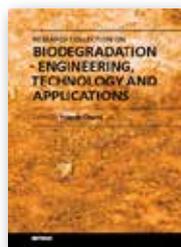
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Biodegradation - Engineering, Technology and Applications

Editor: Multiple Contributors

The refinement of existing biodegradation and bioremediation techniques, and the development of new ones, is hugely important for all countries whatever their stage of development. Using case studies taken from locations as diverse as Mexico and Nigeria, this book outlines the current technologies available for the treatment of various products and contaminants, including crude oil, polymers, metals/alloys, anaerobic effluent, and organic compounds such as pesticides, PCBs and synthetic detergents/surfactants. An important subject covered by the book is the use of microbes in biodegradation techniques, including the development of genetically-engineered micro-organisms. Some specialist topics will also be discussed, including the effect of biodegradation...



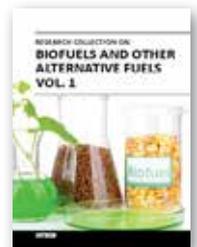
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Biofuels and other Alternative Fuels Vol1

Editor: Multiple Contributors

Biofuels are seen by many as a key solution to the problem of dwindling fossil fuel reserves, and the International Energy Agency has recommended that biofuels should make up more than 25 percent of global demand for transport-related fuels by the middle of this century. Nevertheless, some experts have strong reservations about the extent of the role that biofuels should play in energy provision, given the inevitable competition between biofuel crops and food crops and the concerns about deforestation and effects on water supply. This book brings together a number of case studies and examples of research into biofuel crops, additives, manufacturing methods and applications. Various types of biofuel are discussed, notably bioethanol but also biodiesel, biogas, biobutanol and also new...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Biofuels and other Alternative Fuels Vol12

Editor: Multiple Contributors

Biofuels are seen by many as a key solution to the problem of dwindling fossil fuel reserves, and the International Energy Agency has recommended that biofuels should make up more than 25 percent of global demand for transport-related fuels by the middle of this century. Nevertheless, some experts have strong reservations about the extent of the role that biofuels should play in energy provision, given the inevitable competition between biofuel crops and food crops and the concerns about deforestation and effects on water supply. This book brings together a number of case studies and examples of research into biofuel crops, additives, manufacturing methods and applications. Various types of biofuel are discussed, notably bioethanol but also biodiesel, biogas, biobutanol and also new...

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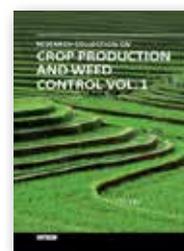
AGRICULTURAL AND BIOLOGICAL SCIENCES

Crop Production and Weed Control Vol1

Editor: Multiple Contributors

This is the first volume in the two-volume set, Crop Production and Weed Control. Increasing human populations, together with the effects of environmental change, present major challenges for researchers and professionals engaged in food production. These volumes provide the reader with a wide-ranging perspective on current research from experts around the world, ensuring they are better informed, whether as researchers, professionals or policy-makers. The studies collected cover a huge range of crop types, including potato, sugarcane, radish, rice, date palm, coffee, brassicas and pigeon pea, studied in a variety of settings. Major themes covered in the books include: current issues in fertilizer use; irrigation in challenging environments; insects and insecticide use, including approaches to some...

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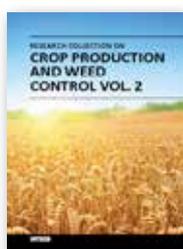
AGRICULTURAL AND BIOLOGICAL SCIENCES

Crop Production and Weed Control Vol2

Editor: Multiple Contributors

This is the second volume in the two-volume set, Crop Production and Weed Control. Increasing human populations, together with the effects of environmental change, present major challenges for researchers and professionals engaged in food production. These volumes provide the reader with a wide-ranging perspective on current research from experts around the world, ensuring they are better informed, whether as researchers, professionals or policy-makers. The studies collected cover a huge range of crop types, including potato, sugarcane, radish, rice, date palm, coffee, brassicas and pigeon pea, studied in a variety of settings. Major themes covered in the books include: current issues in fertilizer use; irrigation in challenging environments; insects and insecticide use, including approaches to some...

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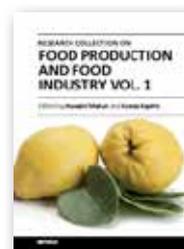
AGRICULTURAL AND BIOLOGICAL SCIENCES

Food Production and Food Industry Vol1

Editor: Multiple Contributors

This is the first volume in the four-volume set, "Food Production and Food Industry". Researchers continually strive to ensure better quality and safer food for populations globally. These volumes bring together high-quality research in issues of food production and food safety, giving the reader a thorough understanding of the latest trends and advances in these areas. The key areas of focus are: mycotoxins in food in the developing world; analytical methods for assessing food quality, such as Raman spectroscopy; issues in industrial food production, such as processing of fruit to improve health and new issues in food packaging; new production technologies and nanotechnologies; emerging research in organic farming, such as health benefits and weed management; new trends in food engineering control...

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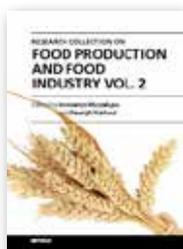
AGRICULTURAL AND BIOLOGICAL SCIENCES

Food Production and Food Industry Vol2

Editor: Multiple Contributors

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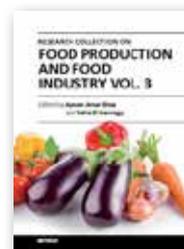
AGRICULTURAL AND BIOLOGICAL SCIENCES

Food Production and Food Industry Vol3

Editor: Multiple Contributors

This is the third volume in the four-volume set, "Food Production and Food Industry". Researchers continually strive to ensure better quality and safer food for populations globally. These volumes bring together high-quality research in issues of food production and food safety, giving the reader a thorough understanding of the latest trends and advances in these areas. The key areas of focus are: mycotoxins in food in the developing world; analytical methods for assessing food quality, such as Raman spectroscopy; issues in industrial food production, such as processing of fruit to improve health and new issues in food packaging; new production technologies and nanotechnologies; emerging research in organic farming, such as health benefits and weed management; new trends in food engineering control...

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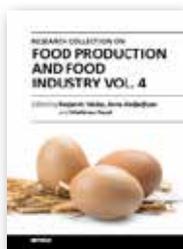
AGRICULTURAL AND BIOLOGICAL SCIENCES

Food Production and Food Industry Vol4

Editor: Multiple Contributors

This is the fourth volume in the four-volume set, "Food Production and Food Industry". Researchers continually strive to ensure better quality and safer food for populations globally. These volumes bring together high-quality research in issues of food production and food safety, giving the reader a thorough understanding of the latest trends and advances in these areas. The key areas of focus are: mycotoxins in food in the developing world; analytical methods for assessing food quality, such as Raman spectroscopy; issues in industrial food production, such as processing of fruit to improve health and new issues in food packaging; new production technologies and nanotechnologies; emerging research in organic farming, such as health benefits and weed management; new trends in food engineering control...

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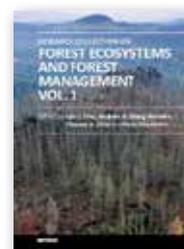
AGRICULTURAL AND BIOLOGICAL SCIENCES

Forest Ecosystems and Forest management Vol1

Editor: Multiple Contributors

Forests are a central part of ecosystems around the world, and in an era when climate change is a challenge that cannot be ignored, environmentally responsible forest management is a necessity. This is the first in a two-volume set, Forest Ecosystems and Forest Management. The volumes bring together expert perspectives on the environmental aspects of forest management through case studies in a variety of climatic zones. The key areas of focus across the volumes include: current research in sustainable forest management, drawing on studies in Europe and Africa; new advances in forestry research, such as on the effects of deforestation on water resources in Kenya; sustainable forest management from a wide range of geographical perspectives...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Forest Ecosystems and Forest management Vol12

Editor: Multiple Contributors

Forests are a central part of ecosystems around the world, and in an era when climate change is a challenge that cannot be ignored, environmentally responsible forest management is a necessity. This is the second in a two-volume set, Forest Ecosystems and Forest Management. The volumes bring together expert perspectives on the environmental aspects of forest management through case studies in a variety of climatic zones. The key areas of focus across the volumes include: current research in sustainable forest management, drawing on studies in Europe and Africa; new advances in forestry research, such as on the effects of deforestation on water resources in Kenya; sustainable forest management from a wide range of geographical perspectives...

ISBN: 978-953-51-1359-1 • Hard cover, 678 Pages

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Fungicide

Editor: Multiple Contributors

Fungicides are an essential part of modern agriculture and medicine, although there is concern about the emergence of resistance and effect of fungicides on the environment, food safety and human health. Fungicide research is therefore a constantly evolving field, in which there is an ever-present need to balance safety requirements with long-term effectiveness. The main emphasis of this book is on current research and development in agricultural fungicides, covering fungal pathogens that affect crops such as soft fruits (including grapes), rice, potato, bananas, cereals and oilseed rape. Case studies are taken from diverse locales, from Germany to Kenya, and several classes of fungicide are discussed including natural products. Agricultural topics discussed in the book include the effects of fungicides...

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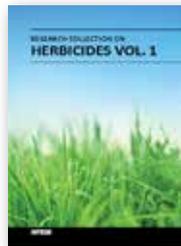
AGRICULTURAL AND BIOLOGICAL SCIENCES

Herbicides Vol1

Editor: Multiple Contributors

This is the first volume in the major, three-volume set, "Herbicides". The volumes cover every aspect of the control of unwanted and invasive plants, building on high-quality research by experts around the world. The volumes cover current herbicides, their efficacy and their implications, as well as providing exposure for new and emerging technologies. Major themes covered by the books include: the current state of research into herbicides, discussed through detailed case studies; new advances in research, for example in relation to transgenic crops; environmental impacts and current approaches to environmental management, such as the fate of herbicides in soil, their impact on water quality and on non-target organisms; causes of and approaches to herbicide resistance...

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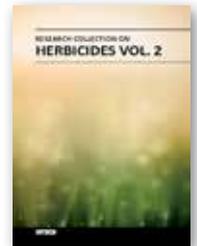
AGRICULTURAL AND BIOLOGICAL SCIENCES

Herbicides Vol2

Editor: Multiple Contributors

This is the second volume in the major, three-volume set, "Herbicides". The volumes cover every aspect of the control of unwanted and invasive plants, building on high-quality research by experts around the world. The volumes cover current herbicides, their efficacy and their implications, as well as providing exposure for new and emerging technologies. Major themes covered by the books include: the current state of research into herbicides, discussed through detailed case studies; new advances in research, for example in relation to transgenic crops; environmental impacts and current approaches to environmental management, such as the fate of herbicides in soil, their impact on water quality and on non-target organisms; causes of and approaches to herbicide resistance...

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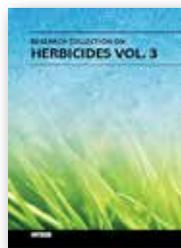
AGRICULTURAL AND BIOLOGICAL SCIENCES

Herbicides Vol3

Editor: Multiple Contributors

This is the third volume in the major, three-volume set, "Herbicides". The volumes cover every aspect of the control of unwanted and invasive plants, building on high-quality research by experts around the world. The volumes cover current herbicides, their efficacy and their implications, as well as providing exposure for new and emerging technologies. Major themes covered by the books include: the current state of research into herbicides, discussed through detailed case studies; new advances in research, for example in relation to transgenic crops; environmental impacts and current approaches to environmental management, such as the fate of herbicides in soil, their impact on water quality and on non-target organisms; causes of and approaches to herbicide resistance; and the...

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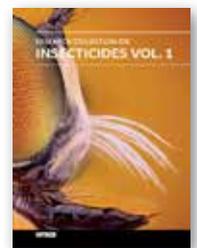
AGRICULTURAL AND BIOLOGICAL SCIENCES

Insecticides Vol1

Editor: Multiple Contributors

"Insecticides" is a two-volume set covering all aspects of insect control. This is the first volume in the set. "Insecticides" covers both basic and advanced issues, with a special focus on new technologies to provide safer and more environmentally friendly insecticides. The volumes consider the action of insecticides, their environmental fate, side effects and non-chemical alternatives. The main areas of focus include the development of safer and more effective insecticidal technologies, engineering for pest control, basic and more advanced functions of insecticides, strategies to deal with increasingly widespread insecticide resistance, analysis and management of pesticide residue, including in soil and water, and new advances in integrated pest management. Some of the emerging applications...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Insecticides Vol2

Editor: Multiple Contributors

"Insecticides" is a two-volume set covering all aspects of insect control. This is the second volume in the set. "Insecticides" covers both basic and advanced issues, with a special focus on new technologies to provide safer and more environmentally friendly insecticides. The volumes consider the action of insecticides, their environmental fate, side effects and non-chemical alternatives. The main areas of focus include the development of safer and more effective insecticidal technologies, engineering for pest control, basic and more advanced functions of insecticides, strategies to deal with increasingly widespread insecticide resistance, analysis and management of pesticide residue, including in soil and water, and new advances in integrated pest management. Some of the emerging...

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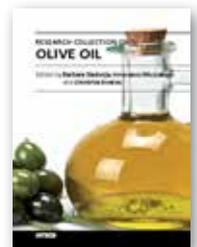
AGRICULTURAL AND BIOLOGICAL SCIENCES

Olive Oil

Editor: Multiple Contributors

Olive oil has long been valued by people across the world for its benefits in health, beauty and nutrition. Growing awareness of its nutritional qualities mean there is increasing demand for olive oil and olive oil products. This book reviews current studies of olives and olive oil, including discussions of biodiversity, genetics, cultivation and health properties. It is divided into four parts. The first part considers the genetics of grapevines and olives in the Mediterranean, including discussions of wild populations and the characterization of grapevines using genetic markers. The second part catalogues olive varieties in Italy. The third part is made up of chapters discussing aspects of cultivation and industrial production in Italy, such as microbiological qualities, traceability and nutritional value. The final part is more...

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AGRICULTURAL AND BIOLOGICAL SCIENCES

Oxidative Stress Vol1

Editor: Multiple Contributors

The oxidative stress caused by reactive oxygen species can cause DNA damage that may have major long-term effects on the body. Indeed, oxidative stress is a factor in the development of various diseases, including cancer, type II diabetes and neurodegenerative and cardiovascular disorders. However, there are a number of promising antioxidant-based treatments for these disorders, and this book discusses some of them in detail. The book also describes potential oxidant-based therapies such as the use of amitriptyline for treatment of cancer, as well as diagnostic applications, e.g. oxidatively-modified compounds as biomarkers for coronary artery disease. The book will also discuss the molecular mechanisms associated with oxidative stress, their relationship with...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Oxidative Stress Vol2

Editor: Multiple Contributors

The oxidative stress caused by reactive oxygen species can cause DNA damage that may have major long-term effects on the body. Indeed, oxidative stress is a factor in the development of various diseases, including cancer, type II diabetes and neurodegenerative and cardiovascular disorders. However, there are a number of promising antioxidant-based treatments for these disorders, and this book discusses some of them in detail. The book also describes potential oxidant-based therapies such as the use of amitriptyline for treatment of cancer, as well as diagnostic applications, e.g. oxidatively-modified compounds as biomarkers for coronary artery disease. The book will also discuss the molecular mechanisms associated with oxidative stress, their relationship with...



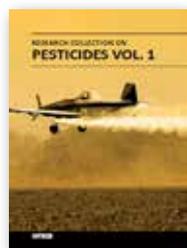
ISBN: 978-953-51-1679-0 • Hard cover, 456 Pages
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Pesticides Vol1

Editor: Multiple Contributors

"Pesticides" is a landmark, five-volume collection of research that covers the subject of pest management and eradication from a huge range of perspectives. This is the first volume in the collection. The growing human population and global development means that the production of safe and sustainable food is increasingly important, and the control of pests on crops is a crucial, but often controversial, subject. These volumes focus on new research into emerging approaches and responses to contemporary problems. The authors are experts in their fields from many countries and draw on experience in industrial and experimental environments. Some of main areas of focus include how to manage pesticide residue, the ecological implications of pesticide use, new greener types of pest control, new...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Pesticides Vol2

Editor: Multiple Contributors

"Pesticides" is a landmark, five-volume collection of research that covers the subject of pest management and eradication from a huge range of perspectives. This is the second volume in the collection. The growing human population and global development means that the production of safe and sustainable food is increasingly important, and the control of pests on crops is a crucial, but often controversial, subject. These volumes focus on new research into emerging approaches and responses to contemporary problems. The authors are experts in their fields from many countries and draw on experience in industrial and experimental environments. Some of main areas of focus include how to manage pesticide residue, the ecological implications of pesticide use, new greener types of pest control, new...



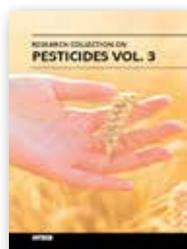
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Pesticides Vol3

Editor: Multiple Contributors

"Pesticides" is a landmark, five-volume collection of research that covers the subject of pest management and eradication from a huge range of perspectives. This is the third volume in the collection. The growing human population and global development means that the production of safe and sustainable food is increasingly important, and the control of pests on crops is a crucial, but often controversial, subject. These volumes focus on new research into emerging approaches and responses to contemporary problems. The authors are experts in their fields from many countries and draw on experience in industrial and experimental environments. Some of main areas of focus include how to manage pesticide residue, the ecological implications of pesticide use, new greener types of pest control, new...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Pesticides Vol4

Editor: Multiple Contributors

"Pesticides" is a landmark, five-volume collection of research that covers the subject of pest management and eradication from a huge range of perspectives. This is the fourth volume in the collection. The growing human population and global development means that the production of safe and sustainable food is increasingly important, and the control of pests on crops is a crucial, but often controversial, subject. These volumes focus on new research into emerging approaches and responses to contemporary problems. The authors are experts in their fields from many countries and draw on experience in industrial and experimental environments. Some of main areas of focus include how to manage pesticide residue, the ecological implications of pesticide use, new greener types of pest control, new...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Pesticides Vol5

Editor: Multiple Contributors

"Pesticides" is a landmark, five-volume collection of research that covers the subject of pest management and eradication from a huge range of perspectives. This is the fifth volume in the collection. The growing human population and global development means that the production of safe and sustainable food is increasingly important, and the control of pests on crops is a crucial, but often controversial, subject. These volumes focus on new research into emerging approaches and responses to contemporary problems. The authors are experts in their fields from many countries and draw on experience in industrial and experimental environments. Some of main areas of focus include how to manage pesticide residue, the ecological implications of pesticide use, new greener types of pest control, new...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Photosynthesis Vol1

Editor: Multiple Contributors

Photosynthesis is a two-volume set covering both the theoretical and fundamental principles of photosynthesis and the practical and applied aspects of photosynthesis in experimental contexts. New approaches in artificial photosynthesis and innovative techniques for studying photosynthesis are extensively considered, giving readers an up-to-date picture of the state of the field. Photosynthesis is examined from a range of disciplinary perspectives; some of the theoretical topics include aquatic photosynthesis, photoacoustics, oxygenic photosynthesis, the effects of stress factors on photosynthesis, the use of EPR spectroscopy to study photosynthesis and photosynthesis of microalgae. Some of the applied aspects considered include acid metabolism in orchids and photosynthesis...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Photosynthesis Vol2

Editor: Multiple Contributors

Photosynthesis is a two-volume set covering both the theoretical and fundamental principles of photosynthesis and the practical and applied aspects of photosynthesis in experimental contexts. New approaches in artificial photosynthesis and innovative techniques for studying photosynthesis are extensively considered, giving readers an up-to-date picture of the state of the field. Photosynthesis is examined from a range of disciplinary perspectives; some of the theoretical topics include aquatic photosynthesis, photoacoustics, oxygenic photosynthesis, the effects of stress factors on photosynthesis, the use of EPR spectroscopy to study photosynthesis and photosynthesis of microalgae. Some of the applied aspects considered include acid metabolism in orchids and photosynthesis...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Breeding

Editor: Multiple Contributors

Modern plant breeding is a highly scientific process, drawing especially on advances made in genetics and genomics, molecular biology, cryobiology and biotechnology. This book gives the reader a twenty-first century perspective on all aspects of plant breeding, both in more experimental contexts and in industrial agricultural settings. The first part of the book, Plant Breeding from Laboratories to Fields, considers issues including the genetic upgradation of the opium poppy, breeding plants for drought resistance and the use of genetic markers to control common diseases on bean crops in Tanzania. In the second part, advanced approaches are considered, such as plant tissue cryopreservation and haploids in plant breeding. The final five chapters of the book deal with specific crop...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Science Vol2

Editor: Multiple Contributors

Plant Science is a major, five-volume collection covering all aspects of plant biology and breeding from the perspective of researchers from around the world. It provides readers with an in-depth knowledge of current and emerging approaches in the field on topics such as disease resistance, new technologies, genetic selection and plant nutrition. The major themes through the books include current advances in the field of botany, the principles of plant science, genetic markers and nutritional research into crop plants, recent advances in plant in vitro culture, the application of flow cytometry in the analysis of plant tissue cultures, the advantages and limitations of genetically-modified plants, plant pathology, molecular research into genetic diversity in plants, new approaches to pest control and disease protection...



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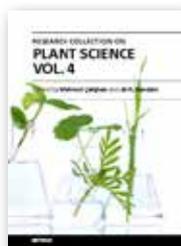
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Science Vol4

Editor: Multiple Contributors

Plant Science is a major, five-volume collection covering all aspects of plant biology and breeding from the perspective of researchers from around the world. It provides readers with an in-depth knowledge of current and emerging approaches in the field on topics such as disease resistance, new technologies, genetic selection and plant nutrition. The major themes through the books include current advances in the field of botany, the principles of plant science, genetic markers and nutritional research into crop plants, recent advances in plant in vitro culture, the application of flow cytometry in the analysis of plant tissue cultures, the advantages and limitations of genetically-modified plants, plant pathology, molecular research into genetic diversity in plants, new approaches to pest control and disease protection...



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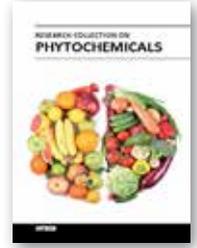
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AGRICULTURAL AND BIOLOGICAL SCIENCES

Phytochemicals

Editor: Multiple Contributors

Currently there are thousands of known phytochemicals; many of these are thought to protect against a range of diseases from prostate cancer to coronary heart disease, and there has been much recent interest in isolating and characterizing new phytochemicals with a view to assessing their potential in human nutrition and health. This book presents 35 chapters covering the extraction, structural characterization, screening and pharmacology of a number of different types of phytochemical. Specific compound classes discussed include flavonoids, lignans/polyphenols, phytocannabinoids, polyamines, alkaloids and triterpenes, with a broad range of potential biological activities. A number of chapters will describe studies done to assess the antioxidant activity of extracts obtained from...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Science Vol1

Editor: Multiple Contributors

Plant Science is a major, five-volume collection covering all aspects of plant biology and breeding from the perspective of researchers from around the world. It provides readers with an in-depth knowledge of current and emerging approaches in the field on topics such as disease resistance, new technologies, genetic selection and plant nutrition. The major themes through the books include current advances in the field of botany, the principles of plant science, genetic markers and nutritional research into crop plants, recent advances in plant in vitro culture, the application of flow cytometry in the analysis of plant tissue cultures, the advantages and limitations of genetically-modified plants, plant pathology, molecular research into genetic diversity in plants, new approaches to pest control and disease protection...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Science Vol3

Editor: Multiple Contributors

Plant Science is a major, five-volume collection covering all aspects of plant biology and breeding from the perspective of researchers from around the world. It provides readers with an in-depth knowledge of current and emerging approaches in the field on topics such as disease resistance, new technologies, genetic selection and plant nutrition. The major themes through the books include current advances in the field of botany, the principles of plant science, genetic markers and nutritional research into crop plants, recent advances in plant in vitro culture, the application of flow cytometry in the analysis of plant tissue cultures, the advantages and limitations of genetically-modified plants, plant pathology, molecular research into genetic diversity in plants, new approaches to pest control and disease protection...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Plant Science Vol5

Editor: Multiple Contributors

Plant Science is a major, five-volume collection covering all aspects of plant biology and breeding from the perspective of researchers from around the world. It provides readers with an in-depth knowledge of current and emerging approaches in the field on topics such as disease resistance, new technologies, genetic selection and plant nutrition. The major themes through the books include current advances in the field of botany, the principles of plant science, genetic markers and nutritional research into crop plants, recent advances in plant in vitro culture, the application of flow cytometry in the analysis of plant tissue cultures, the advantages and limitations of genetically-modified plants, plant pathology, molecular research into genetic diversity in plants, new approaches to pest control and disease protection...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Senescence

Editor: Multiple Contributors

As life expectancies among human populations rise, aging becomes a subject of increasing interest across all fields of inquiry: in the study of health and well-being as well as in social, political and cultural studies. Increasingly, there is a desire to discover what the real nature of aging is, how aging relates to physical conditions associated with later life and, most of all, what can be done to slow or even halt its effects. This book presents a scientific view of aging, presenting papers related to the aging process in plants, animals and human beings. The first part focuses on senescence-related disorders, a subject of much current research at the molecular level. It includes research into the molecular mechanisms of cellular senescence and the relationship between mastication and cognition. The second...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Soybean Vol1

Editor: Multiple Contributors

Soybean continues to be a major food source for human and animal populations around the world. This book is the first volume in a four-volume set that comprehensively covers all areas of soybean cultivation, production, biochemical properties and feed and non-food uses. It draws together research by leading experts from around the world, giving the reader an informed and wide-ranging view of the current field of soybean research. Major themes include the bioactive compounds found in soy, approaches to pest and disease resistance, genetic and genomic research, novel approaches for yield enhancement, the physiology and biochemistry of soy, nutritional and health issues relating to soybean, new trends for improving the quality of soybean products, such as soy bran and livestock feeds...



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AGRICULTURAL AND BIOLOGICAL SCIENCES

Soybean Vol2

Editor: Multiple Contributors

Soybean continues to be a major food source for human and animal populations around the world. This book is the second volume in a four-volume set that comprehensively covers all areas of soybean cultivation, production, biochemical properties and feed and non-food uses. It draws together research by leading experts from around the world, giving the reader an informed and wide-ranging view of the current field of soybean research. Major themes include the bioactive compounds found in soy, approaches to pest and disease resistance, genetic and genomic research, novel approaches for yield enhancement, the physiology and biochemistry of soy, nutritional and health issues relating to soybean, new trends for improving the quality of soybean products, such as soy bran and livestock feeds...



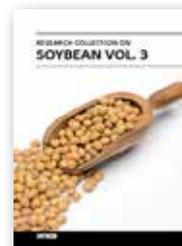
ISBN: 978-953-51-1683-7 • Hard cover, 390 Pages
Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Soybean Vol3

Editor: Multiple Contributors

Soybean continues to be a major food source for human and animal populations around the world. This book is the third volume in a four-volume set that comprehensively covers all areas of soybean cultivation, production, biochemical properties and feed and non-food uses. It draws together research by leading experts from around the world, giving the reader an informed and wide-ranging view of the current field of soybean research. Major themes include the bioactive compounds found in soy, approaches to pest and disease resistance, genetic and genomic research, novel approaches for yield enhancement, the physiology and biochemistry of soy, nutritional and health issues relating to soybean, new trends for improving the quality of soybean products, such as soy bran and livestock feeds...



ISBN: 978-953-51-1684-4 • Hard cover, 448 Pages
Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Soybean Vol4

Editor: Multiple Contributors

Soybean continues to be a major food source for human and animal populations around the world. This book is the fourth volume in a four-volume set that comprehensively covers all areas of soybean cultivation, production, biochemical properties and feed and non-food uses. It draws together research by leading experts from around the world, giving the reader an informed and wide-ranging view of the current field of soybean research. Major themes include the bioactive compounds found in soy, approaches to pest and disease resistance, genetic and genomic research, novel approaches for yield enhancement, the physiology and biochemistry of soy, nutritional and health issues relating to soybean, new trends for improving the quality of soybean products, such as soy bran and livestock feeds...



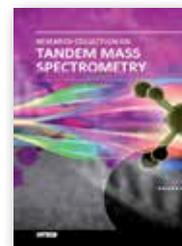
ISBN: 978-953-51-1685-1 • Hard cover, 522 Pages
Published by: InTech - CBS Edition: 2016 • Price: 175.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Tandem Mass Spectrometry

Editor: Multiple Contributors

Mass spectrometry is enormously versatile, and has evolved considerably since it was first used commercially in the middle of the last century. One specific technique - tandem mass spectrometry - has broadened the scope of mass spectrometry considerably, because it can be used for structural analysis of complex organic molecules including peptides and oligonucleotides. This book describes the basic principles of tandem mass spectrometry, including fragmentation methods and the matrix effect and techniques used to compensate for it. A large number of specific applications for tandem mass spectrometry are discussed in detail, namely the study of reaction kinetics, qualitative and quantitative analysis of biological samples, drug discovery/development, proteomics and metabolomics...



ISBN: 978-953-51-1696-7 • Hard cover, 402 Pages
Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD

AGRICULTURAL AND BIOLOGICAL SCIENCES

Waste Management

Editor: Multiple Contributors

Many developing countries are becoming more and more urbanized and industrialized, and are experiencing rapid population growth. As a result, the amount of waste being generated in these countries is increasing rapidly - for example, the developing part of Asia is now the world's largest and fastest generator of waste. Unfortunately the waste management infrastructure in these countries has yet to catch up, and as a result there are major problems for the environment and for human health. This book draws on case studies from various countries including Ethiopia, Malaysia, Indonesia, Turkey, Tanzania, China and Japan, describing the issues associated with solid waste management and the government initiatives and strategies for integrating waste collection, disposal and recycling, and...



ISBN: 978-953-51-1619-6 • Hard cover, 252 Pages
Published by: InTech - CBS Edition: 2016 • Price: 125.00 USD

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Bacterial Artificial Chromosomes

Editor: Pradeep Chatterjee

This book focuses on the numerous applications of Bacterial Artificial Chromosomes (BACs) in a variety of studies. The topics reviewed range from using BAC libraries as resources for marsupial and monotreme gene mapping and comparative genomic studies, to using BACs as vehicles for maintaining the large infectious DNA genomes of viruses. The large size of the insert DNA in BACs and the ease of engineering mutations in that DNA within the bacterial host, allowed manipulating the BAC-viral DNA of Varicella-Zoster Virus. Other reviews include the maintenance and suitable expression of foreign genes from a Baculovirus genome, including protein complexes, from the BAC-viral DNA and generating vaccines from BAC-viral DNA genomes of Marek's disease virus. Production of multi-purpose BAC...



ISBN: 978-953-307-725-3 • Hard cover, 148 Pages
Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Biochemical Testing

Editor: Jose C. Jimenez-Lopez

Biochemical testing necessitates the determination of different parameters, and the identification of the main biological chemical compounds, by using molecular and biochemical tools. The purpose of this book is to introduce a variety of methods and tools to isolate and identify unknown bacteria through biochemical and molecular differences, based on characteristic gene sequences. Furthermore, molecular tools involving DNA sequencing, and biochemical tools based in enzymatic reactions and proteins reactivity, will serve to identify genetically modified organisms in agriculture, as well as for food preservation and healthcare, and improvement through natural products utilization, vaccination and prophylactic treatments, and drugs testing in medical trials.

ISBN: 978-953-51-0249-6 • Hard cover, 216 Pages

Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

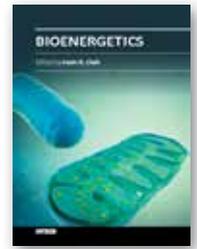
Bioenergetics

Editor: Kevin Clark

Cellular life depends upon energy storage, transformation, utilization, and exchange in order to optimally function and to stay-off death. The over 200-year-old study of how cells transform biological fuels into usable energy, a process broadly known as bioenergetics, has produced celebrated traditions in explaining origins of life, metabolism, ecological adaptation, homeostasis, biosynthesis, aging, disease, and numerous other life processes. InTech's edited volume, Bioenergetics, brings together some of these traditions for readers through a collection of chapters written by international authorities. Novice and expert will find this book bridges scientific revolutions in organismic biology, membrane physiology, and molecular biology to advance the discipline of bioenergetics toward solving...

ISBN: 978-953-51-0090-4 • Hard cover, 272 Pages

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BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

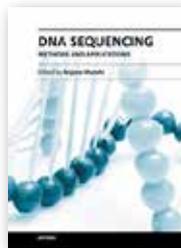
DNA Sequencing - Methods and Applications

Editor: Anjana Munshi

This book illustrates methods of DNA sequencing and its application in plant, animal and medical sciences. It has two distinct sections. The one includes 2 chapters devoted to the DNA sequencing methods and the second includes 6 chapters focusing on various applications of this technology. The content of the articles presented in the book is guided by the knowledge and experience of the contributing authors. This book is intended to serve as an important resource and review to the researchers in the field of DNA sequencing.

ISBN: 978-953-51-0564-0 • Hard cover, 174 Pages

Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

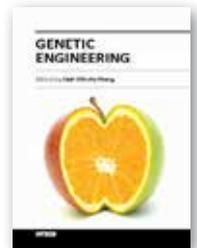
Genetic Engineering

Editor: Idah Sithole-Niang

The book, while having only five chapters, covers a wide range of topics in genetic engineering of microorganisms, plants and animals. Specifically it covers both the natural and social sciences. In the natural sciences topics ranging from the genetic engineering of microorganisms to produce antibiotics, the gene targeting and transformation in plants, the generation of marker-free plants in response to biosafety concerns, as well as the generation of transgenic animals and those derived through cloning are covered. In the social sciences, the issue of ethics in biotechnology and the role of the media in reporting around the cloned sheep, Dolly are discussed.

ISBN: 978-953-51-1099-6 • Hard cover, 128 Pages

Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

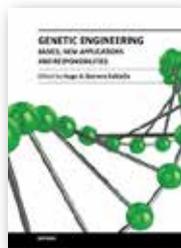
Genetic Engineering - Basics, New Applications and Responsibilities

Editor: Hugo Barrera-Saldaña

Leading scientists from different countries around the world contributed valuable essays on the basic applications and safety, as well as the ethical and moral considerations, of the powerful genetic engineering tools now available for modifying the molecules, pathways, and phenotypes of species of agricultural, industrial and even medical importance. After three decades of perfecting such tools, we now see a refined technology, surprisingly unexpected applications, and matured guidelines to avoid unintentional damage to our and other species, as well as the environment, while trying to contribute to solve the biological, medical and technical challenges of society and industry. Chapters on thermo-stabilization of luciferase, engineering of...

ISBN: 978-953-307-790-1 • Hard cover, 256 Pages

Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD



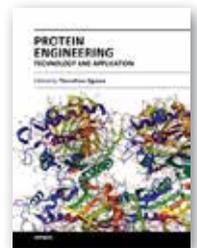
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Protein Engineering - Technology and Application

Editor: Tomohisa Ogawa

ISBN: 978-953-51-1138-2 • Hard cover, 187 Pages

Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

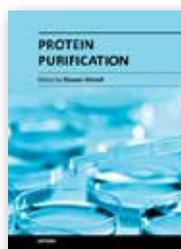
Protein Purification

Editor: Rizwan Ahmad

The current volume entitled Protein Purification is designed to facilitate rapid access to valuable information about various methodologies. It aims as well to provide an overview of state-of-art techniques for the purification, analysis and quantification of proteins in complex samples using different enrichment strategies.

ISBN: 978-953-307-831-1 • Hard cover, 224 Pages

Published by: InTech - CBS Edition: 2014 • Price: 104.95 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

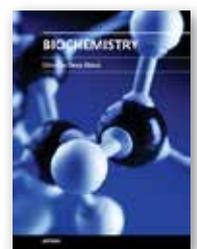
Biochemistry

Editor: Deniz Ekinci

Over the recent years, biochemistry has become responsible for explaining living processes such that many scientists in the life sciences from agronomy to medicine are engaged in biochemical research. This book contains an overview focusing on the research area of proteins, enzymes, cellular mechanisms and chemical compounds used in relevant approaches. The book deals with basic issues and some of the recent developments in biochemistry. Particular emphasis is devoted to both theoretical and experimental aspect of modern biochemistry. The primary target audience for the book includes students, researchers, biologists, chemists, chemical engineers and professionals who are interested in biochemistry, molecular biology and associated areas.

ISBN: 978-953-51-0076-8 • Hard cover, 452 Pages

Published by: InTech - CBS Edition: 2014 • Price: 125.00 USD



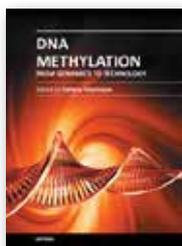
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

DNA Methylation - From Genomics to Technology

Editor: Tatiana Tatarinova

Epigenetics is one of the most exciting and rapidly developing areas of modern genetics with applications in many disciplines from medicine to agriculture. The most common form of epigenetic modification is DNA methylation, which plays a key role in fundamental developmental processes such as embryogenesis and also in the response of organisms to a wide range of environmental stimuli. Indeed, epigenetics is increasing regarded as one of the major mechanisms used by animals and plants to modulate their genome and its expression to adapt to a wide range of environmental factors. This book brings together a group of experts at the cutting edge of research into DNA methylation and highlights recent advances in methodology and knowledge of underlying mechanisms of this...

ISBN: 978-953-51-0320-2 • Hard cover, 400 Pages
Published by: InTech - CBS Edition: 2014 • Price: 125.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Environmental Biotechnology - New Approaches and Prospective Applications

Editor: Marian Petre

Taking into consideration the outstanding importance of studying and applying the biological means to remove or mitigate the harmful effects of global pollution on the natural environment, as direct consequences of quantitative expansion and qualitative diversification of persistent and hazardous contaminants, the present book provides useful information regarding New Approaches and Prospective Applications in Environmental Biotechnology. This volume contains twelve chapters divided in the following three parts: biotechnology for conversion of organic wastes, biodegradation of hazardous contaminants and, finally, biotechnological procedures for environmental protection. Each chapter provides detailed information regarding scientific experiments that...

ISBN: 978-953-51-0972-3 • Hard cover, 301 Pages
Published by: InTech - CBS Edition: 2014 • Price: 125.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Gene Duplication

Editor: Felix Friedberg

The book Gene Duplication consists of 21 chapters divided in 3 parts: General Aspects, A Look at Some Gene Families and Examining Bundles of Genes. The importance of the study of Gene Duplication stems from the realization that the dynamic process of duplication is the „Áúsine qua non,Áù underlying the evolution of all living matter. Genes may be altered before or after the duplication process thereby undergoing neofunctionalization, thus creating in time new organisms which populate the Earth.

ISBN: 978-953-307-387-3 • Hard cover, 400 Pages
Published by: InTech - CBS Edition: 2014 • Price: 125.00 USD



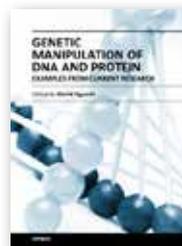
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Genetic Manipulation of DNA and Protein - Examples from Current Research

Editor: David Figurski

This diverse collection of research articles is united by the enormous power of modern molecular genetics. Every author accomplished two objectives: (1) making the field and the research described accessible to a large audience and (2) explaining fully the genetic tools and approaches that were used in the research. One fact stands out - the importance of a genetic approach to addressing a problem. I encourage you to read several chapters. You will feel the excitement of the scientists, and you will learn about an area of research with which you may not be familiar. Perhaps most importantly, you will understand the genetic approaches; and you will appreciate their importance to the research.

ISBN: 978-953-51-0994-5 • Hard cover, 450 Pages
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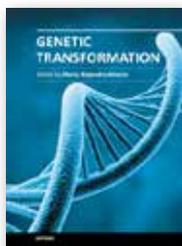
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Genetic Transformation

Editor: Maria Alvarez

Genetic transformation of plants has revolutionized both basic and applied plant research. Plant molecular biology and physiology benefit from this power tool, as well as biotechnology. This book is a review of some of the most significant achievements that plant transformation has brought to the fields of Agrobacterium biology, crop improvement and, flower, fruit and tree amelioration. Also, it examines their impact on molecular farming, phytoremediation and RNAi tools.

ISBN: 978-953-307-364-4 • Hard cover, 328 Pages
Published by: InTech - CBS Edition: 2014 • Price: 125.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Innovations in Biotechnology

Editor: Eddy C. Agbo

Innovations in Biotechnology provides an authoritative crystallization of some of the evolving leading-edge biomedical research topics and developments in the field of biotechnology. It is aptly written to integrate emerging basic research topics with their biotechnology applications. It also challenges the reader to appreciate the role of biotechnology in society, addressing clear questions relating to biotech policy and ethics in the context of the research advances. In an era of interdisciplinary collaboration, the book serves an excellent indepth text for a broad range of readers ranging from social scientists to students, researchers and policy makers. Every topic weaves back to the same bottom line: how does this discovery impact society in a positive way?

ISBN: 978-953-51-0096-6 • Hard cover, 474 Pages
Published by: InTech - CBS Edition: 2014 • Price: 125.00 USD



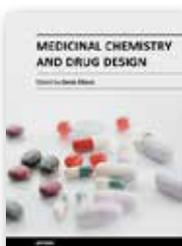
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Medicinal Chemistry and Drug Design

Editor: Deniz Ekinci

Over the recent years, medicinal chemistry has become responsible for explaining interactions of chemical molecules processes such that many scientists in the life sciences from agronomy to medicine are engaged in medicinal research. This book contains an overview focusing on the research area of enzyme inhibitors, molecular aspects of drug metabolism, organic synthesis, prodrug synthesis, in silico studies and chemical compounds used in relevant approaches. The book deals with basic issues and some of the recent developments in medicinal chemistry and drug design. Particular emphasis is devoted to both theoretical and experimental aspect of modern drug design. The primary target audience for the book includes students, researchers, biologists, chemists, chemical engineers and professionals...

ISBN: 978-953-51-0513-8 • Hard cover, 406 Pages
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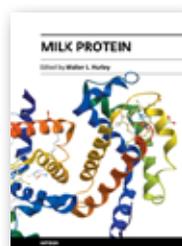
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Milk Protein

Editor: Walter Hurley

This book provides insights into a wide range of topics related to milk protein. The chapters of this book will be of significant value to those interested in dairy foods, milk chemistry, cheese production, human health, neonatal development, lactation and mammary gland biology, and milk protein production. These chapters explore a range of topics related to milk protein, including: bioactivities of milk proteins and the peptides generated from those proteins; novel functions ascribed for some milk proteins; how processing of milk can impact milk proteins; allergies associated with consumption of milk; genetic variation of milk proteins; application of genomic technologies to explore expression of proteins during milk synthesis; and production of milk and milk protein as affected by environmental...

ISBN: 978-953-51-0743-9 • Hard cover, 340 Pages
Published by: InTech - CBS Edition: 2014 • Price: 125.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Molecular Cloning - Selected Applications in Medicine and Biology

Editor: Gregory G. Brown

The development of molecular cloning technology in the early 1970s created a revolution in the biological and biomedical sciences that extends to this day. The contributions in this book provide the reader with a perspective on how pervasive the applications of molecular cloning have become. The contributions are organized in sections based on application, and range from cancer biology and immunology to plant and evolutionary biology. The chapters also cover a wide range of technical approaches, such as positional cloning and cutting edge tools for recombinant protein expression. This book should appeal to many researchers, who should find its information useful for advancing their fields.

ISBN: 978-953-307-398-9 • Hard cover, 324 Pages

Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

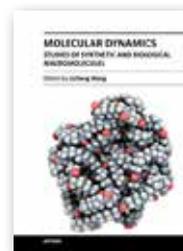
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Molecular Dynamics - Studies of Synthetic and Biological Macromolecules

Editor: Lichang Wang

Molecular Dynamics is a two-volume compendium of the ever-growing applications of molecular dynamics simulations to solve a wider range of scientific and engineering challenges. The contents illustrate the rapid progress on molecular dynamics simulations in many fields of science and technology, such as nanotechnology, energy research, and biology, due to the advances of new dynamics theories and the extraordinary power of today's computers. This second book begins with an introduction of molecular dynamics simulations to macromolecules and then illustrates the computer experiments using molecular dynamics simulations in the studies of synthetic and biological macromolecules, plasmas, and nanomachines.

ISBN: 978-953-51-0444-5 • Hard cover, 432 Pages

Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

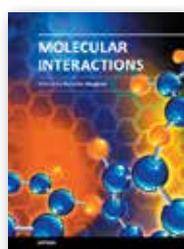
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Molecular Interactions

Editor: Aurelia Meghea

In a classical approach materials science is mainly dealing with interatomic interactions within molecules, without paying much interest on weak intermolecular interactions. However, the variety of structures actually is the result of weak ordering because of noncovalent interactions. Indeed, for self-assembly to be possible in soft materials, it is evident that forces between molecules must be much weaker than covalent bonds between the atoms of a molecule. The weak intermolecular interactions responsible for molecular ordering in soft materials include hydrogen bonds, coordination bonds in ligands and complexes, ionic and dipolar interactions, van der Waals forces, and hydrophobic interactions. Recent evolutions in nanosciences and nanotechnologies provide strong arguments to support the...

ISBN: 978-953-51-0079-9 • Hard cover, 400 Pages

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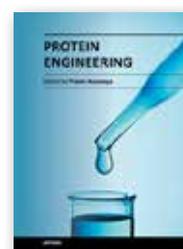
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Protein Engineering

Editor: Pravin Kaumaya

A broad range of topics are covered by providing a solid foundation in protein engineering and supplies readers with knowledge essential to the design and production of proteins. This volume presents in-depth discussions of various methods for protein engineering featuring contributions from leading experts from different countries. A broad series of articles covering significant aspects of methods and applications in the design of novel proteins with different functions are presented. These include the use of non-natural amino acids, bioinformatics, molecular evolution, protein folding and structure-functional insight to develop useful proteins with enhanced properties.

ISBN: 978-953-51-0037-9 • Hard cover, 344 Pages

Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

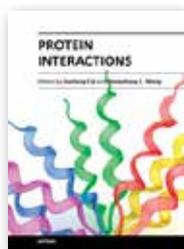
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Protein Interactions

Editor: Jianfeng Cai

Protein interactions, which include interactions between proteins and other biomolecules, are essential to all aspects of biological processes, such as cell growth, differentiation, and apoptosis. Therefore, investigation and modulation of protein interactions are of significance as it not only reveals the mechanism governing cellular activity, but also leads to potential agents for the treatment of various diseases. The objective of this book is to highlight some of the latest approaches in the study of protein interactions, including modulation of protein interactions, development of analytical techniques, etc. Collectively they demonstrate the importance and the possibility for the further investigation and modulation of protein interactions as technology is evolving.

ISBN: 978-953-51-0244-1 • Hard cover, 464 Pages

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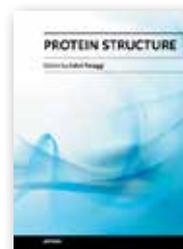
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Protein Structure

Editor: Eshel Faraggi

Since the dawn of recorded history, and probably even before, men and women have been grasping at the mechanisms by which they themselves exist. Only relatively recently, did this grasp yield anything of substance, and only within the last several decades did the proteins play a pivotal role in this existence. In this expose on the topic of protein structure some of the current issues in this scientific field are discussed. The aim is that a non-expert can gain some appreciation for the intricacies involved, and in the current state of affairs. The expert meanwhile, we hope, can gain a deeper understanding of the topic.

ISBN: 978-953-51-0555-8 • Hard cover, 396 Pages

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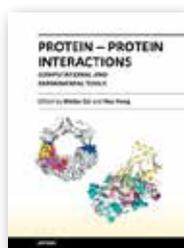
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Protein-Protein Interactions - Computational and Experimental Tools

Editor: Weibo Cai

Proteins are indispensable players in virtually all biological events. The functions of proteins are coordinated through intricate regulatory networks of transient protein-protein interactions (PPIs). To predict and/or study PPIs, a wide variety of techniques have been developed over the last several decades. Many in vitro and in vivo assays have been implemented to explore the mechanism of these ubiquitous interactions. However, despite significant advances in these experimental approaches, many limitations exist such as false-positives/false-negatives, difficulty in obtaining crystal structures of proteins, challenges in the detection of transient PPI, among others. To overcome these limitations, many computational approaches have been developed which are...

ISBN: 978-953-51-0397-4 • Hard cover, 472 Pages

Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

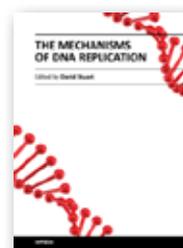
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

The Mechanisms of DNA Replication

Editor: David Stuart

DNA replication is a fundamental part of the life cycle of all organisms. Not surprisingly many aspects of this process display profound conservation across organisms in all domains of life. The chapters in this volume outline and review the current state of knowledge on several key aspects of the DNA replication process. This is a critical process in both normal growth and development and in relation to a broad variety of pathological conditions including cancer. The reader will be provided with new insights into the initiation, regulation, and progression of DNA replication as well as a collection of thought provoking questions and summaries to direct future investigations.

ISBN: 978-953-51-0991-4 • Hard cover, 485 Pages

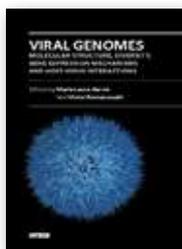
Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Viral Genomes - Molecular Structure, Diversity, Gene Expression Mechanisms and Host-Virus Interactions

Editor: Maria Garcia

Viruses are small infectious agents that can replicate only inside the living cells of susceptible organisms. The understanding of the molecular events underlying the infectious process has been of central interest to improve strategies aimed at combating viral diseases of medical, veterinary and agricultural importance. Some of the viruses cause dreadful diseases, while others are also of interest as tools for gene transduction and expression and in non-polluting insect pest management strategies. The contributions in this book provide the reader with a perspective on the wide spectrum of virus-host systems...



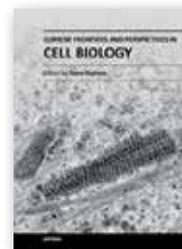
ISBN: 978-953-51-0098-0 • Hard cover, 302 Pages
Published by: InTech - CBS Edition: 2014 • Price: 125.00 USD

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Current Frontiers and Perspectives in Cell Biology

Editor: Stevo Najman

A numerous internationally renowned authors in the pages of this book present the views of the fields of cell biology and their own research results or review of current knowledge. Chapters are divided into five sections that are dedicated to cell structures and functions, genetic material, regulatory mechanisms, cellular biomedicine and new methods in cell biology. Multidisciplinary and often quite versatile approach by many authors have imposed restrictions of this classification, so it is certain that many chapters could belong to the other sections of this book. The current frontiers, on the manner in which they described in the book, can be a good inspiration to many readers for further improving, and perspectives which are highlighted can be seen in many areas...



ISBN: 978-953-51-0544-2 • Hard cover, 556 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Gene Therapy - Tools and Potential Applications

Editor: Francisco Martin

The Gene Therapy field is living exciting times after more than 20 years of poor results. Scientist and clinicians working in the gene therapy field have encountered many problems in the past that are now starting to be solved. The development of safer and more efficient gene transfer vectors and the advances on the cell therapy field have open new opportunities to tackle different diseases. The aim of this book is to bring together information about the different gene therapy tools, the clinical successes of gene therapy and the future applications.



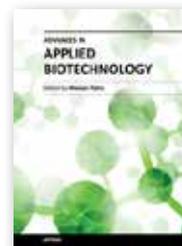
ISBN: 978-953-51-1014-9 • Hard cover, 744 Pages
Published by: InTech - CBS Edition: 2014 • Price: 150.00 USD

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Advances in Applied Biotechnology

Editor: Marian Petre

Biotechnology is the scientific field of studying and applying the most efficient methods and techniques to get useful end-products for the human society by using viable micro-organisms, cells, and tissues of plants or animals, or even certain functional components of their organisms, that are grown in fully controlled conditions to maximize their specific metabolism inside fully automatic bioreactors. It is very important to make the specific difference between biotechnology as a distinct science of getting valuable products from molecules, cells or tissues of viable organisms, and any other applications of bioprocesses that are based on using the whole living plants or animals in different fields of human activities such as bioremediation, environmental protection, organic agriculture, or industrial...



ISBN: 978-953-307-820-5 • Hard cover, 288 Pages
Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD -20%

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Biotechnology - Molecular Studies and Novel Applications for Improved Quality of Human Life

Editor: Reda Helmy Sammour

This book deals with the importance of application of molecular biology as an approach of biotechnology for improvement of the quality of human life. One of the interesting topics in this field, is the identification of the organisms that produce bioactive secondary metabolites. It also discusses how to structure a plan for use and preservation of those species that represent a potential source for new drug development, especially those obtained from bacteria. The book also introduces some novel applications of biotechnology, such as therapeutic applications of electroporation, improving quality and microbial safety...



ISBN: 978-953-51-0151-2 • Hard cover, 175 Pages
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BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Current Issues in Molecular Virology - Viral Genetics and Biotechnological Applications

Editor: Victor Romanowski

This book is a collection of chapters dealing with examples of RNA and DNA viruses, and issues such as how these gene packages have learnt to take advantage of their hosts, molecular recognition events that hosts may use to counterattack the viruses, and how researchers have developed strategies to use viruses or their parts as tools for different purposes.



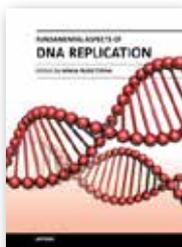
ISBN: 978-953-51-1207-5 • Hard cover, 294 Pages
Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD -20%

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Fundamental Aspects of DNA Replication

Editor: Jelena Kušić-Tišma

DNA replication, the process of copying one double stranded DNA molecule to produce two identical copies, is at the heart of cell proliferation. This book highlights new insights into the replication process in eukaryotes, from the assembly of pre-replication complex and features of DNA replication origins, through polymerization mechanisms, to propagation of epigenetic states. It also covers cell cycle control of replication initiation and includes the latest on mechanisms of replication in prokaryotes. The association between genome replication and transcription is also addressed. We hope that readers will find this book interesting, helpful and inspiring.



ISBN: 978-953-307-259-3 • Hard cover, 318 Pages
Published by: InTech - CBS Edition: 2016 • Price: 180.00 USD -20%

BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Biochemistry and It's Techniques Vol1

Editor: Multiple Contributors

This is the first of two volumes on biochemistry and its techniques. Nowadays, biochemical techniques and concepts are fundamental to research in virtually all branches of the life sciences. An understanding of the basics of biochemistry, together with an awareness of the latest advances, is therefore essential to anyone working or studying in these fields. With over forty chapters, this book is a comprehensive guide to some current and emerging trends in biochemistry research. The section on biochemistry features chapters discussing specific bacterial proteins, peptides, peptidomimetics, estrogen receptors, enzymes and antioxidants, as well as the processes of cholesterol biosynthesis and glucose metabolism, including how the latter plays a role in the development of cancer.



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BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Biochemistry and It's Techniques Vol2

Editor: Multiple Contributors

This is the second of two volumes on biochemistry and its techniques. Nowadays, biochemical techniques and concepts are fundamental to research in virtually all branches of the life sciences. An understanding of the basics of biochemistry, together with an awareness of the latest advances, is therefore essential to anyone working or studying in these fields. With over forty chapters, this book is a comprehensive guide to some current and emerging trends in biochemistry research. The section on biochemistry features chapters discussing specific bacterial proteins, peptides, peptidomimetics, estrogen receptors, enzymes and antioxidants, as well as the processes of cholesterol biosynthesis and glucose metabolism, including how the latter plays a role in the development of cancer. The book has a strong...

ISBN: 978-953-51-1297-6 • Hard cover, 398 Pages

Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Biotechnology Vol1

Editor: Multiple Contributors

Since the beginnings of modern biotechnology in the 1970s, the sector has expanded over the years and biotechnology now has a number of applications in fields as diverse as agriculture, waste management/recycling and the production of drugs, polymers, fuels and biological weapons. Today, much research is being done to push back the frontiers of biotechnology and discover novel applications or improve existing ones. This book contains chapters describing new approaches and prospective applications in environmental biotechnology, as well as molecular studies and novel applications for improved life quality. The broad approach and range of topics covered in this book will have appeal to people working across a number of disciplines and functions, from fundamental biotechnological researchers...

ISBN: 978-953-51-1301-0 • Hard cover, 438 Pages

Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Biotechnology Vol2

Editor: Multiple Contributors

Since the beginnings of modern biotechnology in the 1970s, the sector has expanded over the years and biotechnology now has a number of applications in fields as diverse as agriculture, waste management/recycling and the production of drugs, polymers, fuels and biological weapons. Today, much research is being done to push back the frontiers of biotechnology and discover novel applications or improve existing ones. This book contains chapters describing novel biotechnological techniques and advances in applied biotechnology. Examples of the former include expression systems, termination mechanisms, the control of cell migration, and the use of spermatogonial stem cells for transgenic animal production. Applied biotechnology topics discussed in the book include fermentative...

ISBN: 978-953-51-1302-7 • Hard cover, 562 Pages

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BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

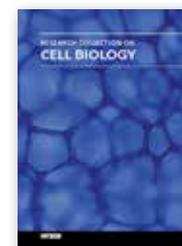
Cell Biology

Editor: Multiple Contributors

Recent decades have seen huge advances in our knowledge of cell biology, not only at a fundamental descriptive level but also in terms of how cellular processes contribute to disease. This book focuses on several main areas of cell biology. The first of these is meiosis in plant and animal species; topics covered here include the meiotic behaviour of abnormal human chromosomes; how a greater understanding of the molecular processes that occur during meiosis can be used to control meiotic arrest and resumption; and the meiotic processes that occur during switching between sexual reproduction and parthenogenesis. Further sections will focus on studies of cell interaction, e.g. with the immune and neuroimmune system, as well as current frontiers and perspectives in cell biology, such as studies on transport...

ISBN: 978-953-51-1292-1 • Hard cover, 348 Pages

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BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

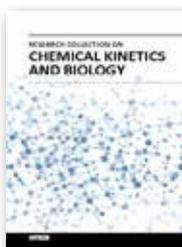
Chemical Kinetics and Biology

Editor: Multiple Contributors

Mathematical modeling of chemical reaction rates (kinetics) is a powerful tool that helps to maximize yields and improve the efficiency of separation and purification stages. The first section of this book describes some selected aspects of chemical kinetics, including a review of historical developments including the chemical affinity principle, the law of mass action and transition state theory. Other chapters in this section focus on esterification processes and the kinetics of plasma-based processes, including those used for nitrogen oxide remediation or for deposition of thin-film coatings such as silica and carbon or titanium nitride. The second section of the book focuses on co-called chemical biology, including, for example: protein and enzyme purification; the role of nicotinamide...

ISBN: 978-953-51-1543-4 • Hard cover, 334 Pages

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BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

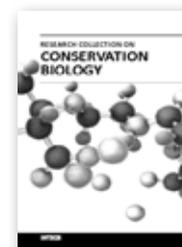
Conservation Biology

Editor: Multiple Contributors

The study of conservation biology encompasses several disciplines from the strictly scientific (for example genetics and ecology) to the social. It attempts to increase our understanding of the relationship between human activities and biodiversity, and hence to find out how real-world problems such as deforestation and species extinction can be addressed. This chapters in this book illustrate the problems faced by conservationists attempting to halt the decline in the earths biodiversity. Subjects discussed include an evaluation of the success of protected area management schemes in the Levant area, the pros and cons of manipulating sex ratios in endangered species populations, the role and effectiveness of religion in achieving conservation goals, and the impact of conservation schemes...

ISBN: 978-953-51-1291-4 • Hard cover, 94 Pages

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BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

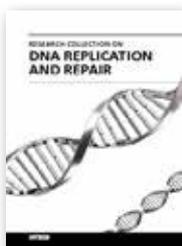
DNA Replication and Repair

Editor: Multiple Contributors

Since the work done by Watson and Crick in the middle of the last century, we have made enormous strides in terms of understanding DNA structure and also its mechanisms of replication, damage and repair. We are also gaining an insight into the role these mechanisms play in biological processes such as the development of certain types of disease. This book provides a detailed description of some basic principles of DNA structure, replication and repair, and gathers together some of the current research and thinking on the subject. Subjects covered include non B-DNAs (and the mechanisms involved in transition between different types of DNA), telomeric DNA/telomere maintenance and shortening, epigenetic modifications that occur during DNA replication, assays for measuring DNA repair, the use of DNA repair...

ISBN: 978-953-51-1298-3 • Hard cover, 650 Pages

Published by: InTech - CBS Edition: 2016 • Price: 175.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Gene Diversity

Editor: Multiple Contributors

Genetic diversity is not only a fascinating sphere of study in its own right, but the maintenance of gene diversity is important for the health of all animal and plant species. Moreover a greater theoretical knowledge, together with refinements to PCR techniques for evaluating genetic diversity, will help improve the efficacy of breeding and conservation programs as well as safeguarding agricultural biodiversity, which is in steep decline. This book provides a number of perspectives from researchers currently studying the genetic diversity of animals, plants and microorganisms. The largest section, on genetic diversity in plants, focuses mainly on crop plants from around the world including wheat, rice, citrus fruit, apricots, tomatoes, garlic, olives, cocoa, cashews and cotton. The section on genetic diversity...

ISBN: 978-953-51-1293-8 • Hard cover, 742 Pages

Published by: InTech - CBS Edition: 2016 • Price: 195.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Genetic Engineering and Gene Therapy

Editor: Multiple Contributors

Humans have intervened in plant and animal breeding for millennia, but the development of genetic engineering techniques has accelerated the process of genomic alteration - rather than gradual changes over many generations as in conventional breeding programs, it is now possible to create massive phenotypic alteration in just a single generation, by deleting genes or adding specific genes from other species. With this technology comes a number of scientific and ethical issues, some of which are discussed in this book. The book also presents a number of chapters describing current and emerging applications of genetic engineering, including the history and mechanics of animal cloning; the development of plant species with altered lignin content for the paper industry; and the development of...

ISBN: 978-953-51-1690-5 • Hard cover, 354 Pages
Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD



BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Genomics and Proteomics Vol1

Editor: Multiple Contributors

This is the first of two volumes on genomics and proteomics. We may stand on the brink of an exciting era in medicine, in which physicians will routinely be able to personalize treatment of complex diseases based on an individual patients genomic profile. Moreover, the related techniques of metabolomics and proteomics also have exciting potential and are being used both as diagnostic tools in medicine and in other branches of biology. This book outlines some of the latest tools being applied to the large-scale analysis of genomes, proteins and metabolites in a variety of settings. Specific non-medical applications discussed in the book include the sequencing of plant DNA for biotechnology and breeding purposes, and proteomics for analysis of food proteins and species differentiation in fish...

ISBN: 978-953-51-1294-5 • Hard cover, 290 Pages
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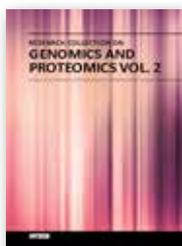
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Genomics and Proteomics Vol2

Editor: Multiple Contributors

"This is the second of two volumes on genomics and proteomics. We may stand on the brink of an exciting era in medicine, in which physicians will routinely be able to personalize treatment of complex diseases based on an individual patients genomic profile. Moreover, the related techniques of metabolomics and proteomics also have exciting potential and are being used both as diagnostic tools in medicine and in other branches of biology. This book outlines some of the latest tools being applied to the large-scale analysis of genomes, proteins and metabolites in a variety of settings. Specific non-medical applications discussed in the book include the sequencing of plant DNA for biotechnology and breeding purposes, and proteomics for analysis of food proteins and species...

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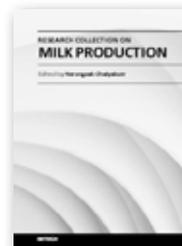
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Milk Production

Editor: Multiple Contributors

Milk Production provides a range of insights into established and emerging issues in dairy industries around the world. It is divided into two sections: the first considers issues in animal nutrition, management and health, while the second explores emerging and more advanced issues in the field, such as genetic traits and cellular mechanisms. Some of the topics covered in Section One are the effect of various environmental factors on the milk yield of cows in Tunisia, and a discussion of a new tool to enhance efficiency in milk removal. In the second section, some of the research topics include the genetic improvement of livestock for milk production, breeding and management issues at peri-urban dairy farms, and husbandry and management issues relating to crossbred cattle in the tropics. The book gives a...

ISBN: 978-953-51-1290-7 • Hard cover, 294 Pages
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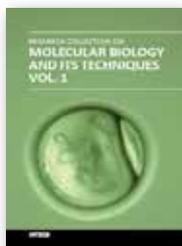
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Molecular Biology and its Techniques Vol1

Editor: Multiple Contributors

This is the first of two volumes on molecular biology and its techniques. Molecular biology is a huge field and as its name suggests, attempts to describe genetic and cellular processes at protein and nucleic acid level. Key to this attempt is the technique of gel electrophoresis, and a number of chapters within this two-volume book are devoted to the topic, starting with the basics and then focusing on general and specific applications. Specific techniques discussed include agarose gel electrophoresis, pulsed field gel techniques and 2D polyacrylamide gel electrophoresis, which has become an important tool in the field of proteomics. The book will also describe recent advances in gel electrophoresis, such as its use for analysing protein-nucleic acid interactions and cancer proteomics. Other sections...

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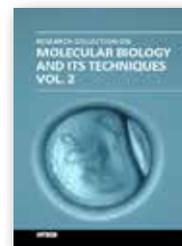
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Molecular Biology and its Techniques Vol2

Editor: Multiple Contributors

This is the second of two volumes on molecular biology and its techniques. Molecular biology is a huge field and as its name suggests, attempts to describe genetic and cellular processes at protein and nucleic acid level. Key to this attempt is the technique of gel electrophoresis, and a number of chapters within this two-volume book are devoted to the topic, starting with the basics and then focusing on general and specific applications. Specific techniques discussed include agarose gel electrophoresis, pulsed field gel techniques and 2D polyacrylamide gel electrophoresis, which has become an important tool in the field of proteomics. The book will also describe recent advances in gel electrophoresis, such as its use for analysing protein-nucleic acid interactions and cancer proteomics. Other sections...

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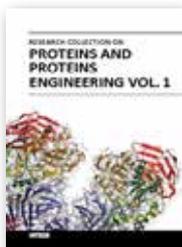
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Proteins and Protein Engineering Vol1

Editor: Multiple Contributors

This is the first of three volumes on proteins and protein engineering. Protein engineering - the design of new proteins/enzymes - is a relatively new field, but an extremely promising one. As an area of study, it will expand greatly as we come to understand more about protein folding, protein-protein interactions and protein recognition. This book is a compilation of over fifty chapters, some describing the basic methodologies of protein engineering: rational design, peptidomimetics, in vitro protein evolution systems and computational methods, together with their advantages and limitations. In addition, the book will discuss purification techniques such as affinity chromatography and expression vectors, and the use of spectroscopic tools and in vivo imaging techniques for studying protein...

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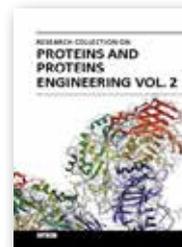
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Proteins and Protein Engineering Vol2

Editor: Multiple Contributors

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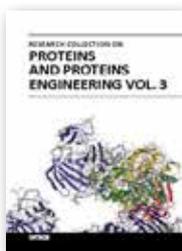
BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Proteins and Protein Engineering Vol3

Editor: Multiple Contributors

This is the last of three volumes on proteins and protein engineering. Protein engineering - the design of new proteins/enzymes - is a relatively new field, but an extremely promising one. As an area of study, it will expand greatly as we come to understand more about protein folding, protein-protein interactions and protein recognition. This book is a compilation of over fifty chapters, some describing the basic methodologies of protein engineering: rational design, peptidomimetics, in vitro protein evolution systems and computational methods, together with their advantages and limitations. In addition, the book will discuss purification techniques such as affinity chromatography and expression vectors, and the use of spectroscopic tools and in vivo imaging techniques for studying protein...

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BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY

Atomic and Vibrational Spectroscopy

Editor: Multiple Contributors

Atomic and Vibrational Spectroscopy considers spectroscopic techniques for the determination of elements in a wide variety of materials and contexts. It aims to give a thorough understanding of issues and applications relating to two branches of spectroscopic analysis. It is divided into two sections, Vibrational Spectroscopy and Atomic Absorption Spectroscopy. Topics covered in the first section include the use of Raman spectroscopy to investigate the effect of high pressure on amino acid crystals, and the use of Raman spectra and X-ray diffraction to investigate the structure of materials in the solid state. In the second section, topics include an overview of the current state of the art and emerging trends in atomic absorption spectrometry, the use of microextraction techniques as a part of sample...

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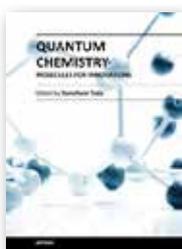
CHEMISTRY

Quantum Chemistry - Molecules for Innovations

Editor: Tomofumi Tada

Molecules, small structures composed of atoms, are essential substances for lives. However, we didn't have the clear answer to the following questions until the 1920s: why molecules can exist in stable as rigid networks between atoms, and why molecules can change into different types of molecules. The most important event for solving the puzzles is the discovery of the quantum mechanics. Quantum mechanics is the theory for small particles such as electrons and nuclei, and was applied to hydrogen molecule by Heitler and London at 1927. The pioneering work led to the clear explanation of the chemical bonding between the hydrogen atoms. This is the beginning of the quantum chemistry. Since then, quantum chemistry has been an important theory for the understanding of...

ISBN: 978-953-51-0372-1 • Hard cover, 212 Pages

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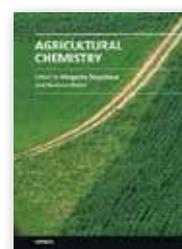
CHEMISTRY

Agricultural Chemistry

Editor: Margarita Stoytcheva

The present book is a collection of ten original research articles and reports, associated with selected topics in agricultural chemistry. The discussed issues are organized in four sections: Classification and labeling of active substances in plant protection products, Environmental and stress plant physiology and behavior, Antimicrobial and antioxidant potential of plant extracts, and Pollutants analysis and effects. The information provided in this book should be of interest for academic researchers and for agriculturalists.

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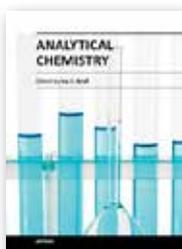
ANALYTICAL CHEMISTRY

Analytical Chemistry

Editor: Ira S. Krull

The current text deals with several, very important topics of modern, Analytical Chemistry, such as analytical method validation in biotechnology today, principal component analysis, kinetic methods of analysis using potentiometric and spectrophotometric detectors, the current status of Analytical Chemistry and where it may move in the future, peptide and amino acid separations and identification, and several other, related topics in this growing and increasingly important area of Chemistry, in general. Analytical Chemistry has come to assume an incredibly important role in most, if not all, areas of scientific research today, from the current, Mars lander/rover, to underwater explorations to forensic science to DNA characterization for dedicated medicine treatments, to climate change, and others...

ISBN: 978-953-51-0837-5 • Hard cover, 154 Pages

Published by: InTech - CBS Edition: 2016 • Price: **125.00 USD**

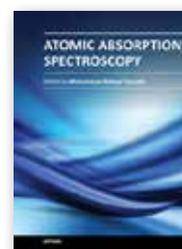
ANALYTICAL CHEMISTRY

Atomic Absorption Spectroscopy

Editor: Muhammad Akhyar Farrukh

Atomic Absorption Spectroscopy is an analytical technique used for the qualitative and quantitative determination of the elements present in different samples like food, nanomaterials, biomaterials, forensics, and industrial wastes. The main aim of this book is to cover all major topics which are required to equip scholars with the recent advancement in this field. The book is divided into 12 chapters with an emphasis on specific topics. The first two chapters introduce the reader to the subject, its history, basic principles, instrumentation and sample preparation. Chapter 3 deals with the elemental profiling, functions, biochemistry and potential toxicity of metals, along with comparative techniques. Chapter 4 discusses the importance of sample preparation techniques with the focus on microextraction...

ISBN: 978-953-307-817-5 • Hard cover, 270 Pages

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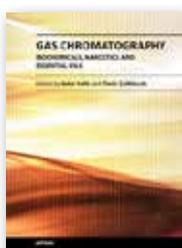
ANALYTICAL CHEMISTRY

Gas Chromatography - Biochemicals, Narcotics and Essential Oils

Editor: Bekir Salih

Gas Chromatography involves the study of various vaporizable molecules in chemistry and the other related research fields. This analytical method has a number of features and advantages that make it an extremely valuable tool for the identification, quantification and structural elucidation of organic molecules. This book provides detailed gas chromatography information to applications of biochemicals, narcotics and essential oils. The details of the applications were briefly handled by the authors to increase their comprehensibility and feasibility. This guide should be certainly valuable to the novice, as well as to the experienced gas chromatography user who may not have the enough experience about the specific applications covered in this book.

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ANALYTICAL CHEMISTRY

Gas Chromatography in Plant Science, Wine Technology, Toxicology and Some Specific Applications

Editor: Bekir Salih

The aim of this book is to describe the fundamental aspects and details of certain gas chromatography applications in Plant Science, Wine technology, Toxicology and the other specific disciplines that are currently being researched. The very best gas chromatography experts have been chosen as authors in each area. The individual chapter has been written to be self-contained so that readers may peruse particular topics but can pursue the other chapters in the each section to gain more insight about different gas chromatography applications in the same research field. This book will surely be useful to gas chromatography users...

ISBN: 978-953-51-0127-7 • Hard cover, 358 Pages

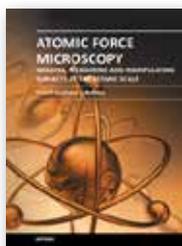
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ELECTROCHEMISTRY

Atomic Force Microscopy - Imaging, Measuring and Manipulating Surfaces at the Atomic Scale

Editor: Victor Bellitto

With the advent of the atomic force microscope (AFM) came an extremely valuable analytical resource and technique useful for the qualitative and quantitative surface analysis with sub-nanometer resolution. In addition, samples studied with an AFM do not require any special pretreatments that may alter or damage the sample and permits a three dimensional investigation of the surface. This book presents a collection of current research from scientists throughout the world that employ atomic force microscopy in their investigations. The technique has become widely accepted and used in obtaining valuable data in a wide variety of...



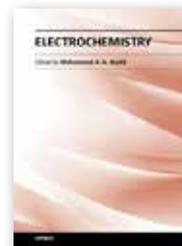
ISBN: 978-953-51-0414-8 • Hard cover, 268 Pages
Published by: InTech - CBS Edition: 2016 • Price: 125.00 USD

ELECTROCHEMISTRY

Electrochemistry

Editor: Mohammed A. A. Khalid

Electrochemistry has been undergoing significant transformations in the last few decades. It is now the province of academics interested only in measuring thermodynamic properties of solutions and of industrialists using electrolysis or manufacturing batteries, with a huge gap between them. It has become clear that these, apparently distinct subjects, alongside others, have a common ground and that they have grown towards each other, particularly as a result of research into the rates of electrochemical processes. Such evolution is due to a number of factors, and offers the possibility of carrying out reproducible, dynamic experiments under an ever-increasing variety of conditions with reliable and sensitive instrumentation. This has enabled many studies of a fundamental and applied nature...



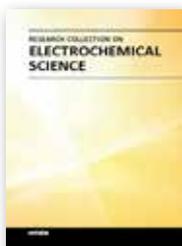
ISBN: 978-953-51-1018-7 • Hard cover, 208 Pages
Published by: InTech - CBS Edition: 2016 • Price: 125.00 USD

ELECTROCHEMISTRY

Electrochemical Science

Editor: Multiple Contributors

"Electrochemical Science" brings together chapters by international experts to provide a range of advanced studies on new developments in the field of electrochemical science and engineering. This is a dynamic scientific area in which important innovations are always being made in relation to efficient energy conversion and storage, corrosion science and nanomaterials science. It impacts everyday life in a huge variety of ways, such as in water purification and cleaner energy. This book is divided into two themed sections. The first discusses developments in electrochemical cell production. Topics include the potential uses of cold plasma as a tool in the development of electrochemical cells. The second section focuses on recent trends in the field, and discusses issues such as the mathematical...



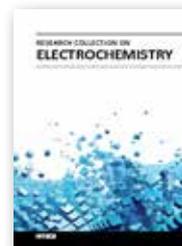
ISBN: 978-953-51-1646-2 • Hard cover, 232 Pages
Published by: InTech - CBS Edition: 2016 • Price: 125.00 USD

ELECTROCHEMISTRY

Electrochemistry

Editor: Multiple Contributors

Electrochemistry is an important field of study that affects many aspects of daily life, such as the energy supply and water purification. Electrochemistry is at the forefront of crucial new developments, for example, in alternative fuels, environmental remediation, advanced batteries and electro-synthesis. This book has two aims: firstly, to give readers a detailed overview of key concepts and application in electrochemical science; and secondly, to provide a varied introduction to the many important advances that are being made. The first section discusses types of electrochemical process, such as membrane electrochemistry, electroanalytical sensor technology and methods in hydrogeological analysis. The second section considers new developments, such as the phase-shift method and...



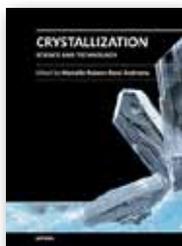
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Published by: InTech - CBS Edition: 2016 • Price: 125.00 USD

INORGANIC CHEMISTRY

Crystallization - Science and Technology

Editor: Marcello Rubens Barsi Andreetta

Crystallization is one of the most ancient and interdisciplinary topics of research known to mankind. Crystals can be organic or inorganic and may be produced from melts, liquid solutions, vapors or even in solid state. Notwithstanding its inherently high complexity, the crystallization process is part of our everyday lives, from ice making in our homes to the most state-of-the-art chemical and electronic industry. In this book, our purpose was to present new insights to the reader, as well as crucial and very useful information for researchers working in this field, while simultaneously creating a comprehensive text about crystallization processes which may serve as a starting point for people with different backgrounds.



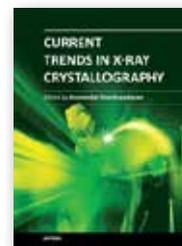
ISBN: 978-953-51-0757-6 • Hard cover, 578 Pages
Published by: InTech - CBS Edition: 2016 • Price: 175.00 USD

INORGANIC CHEMISTRY

Current Trends in X-Ray Crystallography

Editor: Annamalai Chandrasekaran

This book on X-ray Crystallography is a compilation of current trends in the use of X-ray crystallography and related structural determination methods in various fields. The methods covered here include single crystal small-molecule X-ray crystallography, macromolecular (protein) single crystal X-ray crystallography, and scattering and spectroscopic complementary methods. The fields range from simple organic compounds, metal complexes to proteins, and also cover the meta-analyses of the database for weak interactions.



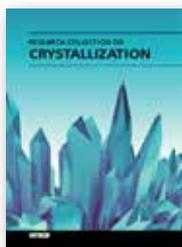
ISBN: 978-953-307-754-3 • Hard cover, 450 Pages
Published by: InTech - CBS Edition: 2016 • Price: 150.00 USD

INORGANIC CHEMISTRY

Crystallization

Editor: Multiple Contributors

Crystallization is a central process in physical sciences by which solid materials are recovered or purified. This book aims to give the reader both a firm understanding of the principles of crystallization and an insight into some of emerging issues and applications of it. The first section, "Crystallization - Science and Technology", provides detailed case studies of some of the most common types of crystallization. The first chapter, for example, reviews the principles of recrystallization of pharmaceutical ingredients, a common procedure in drug design and development. The second section, "Advances in Crystallization Processes", delivers the latest research on approaches to crystallization, such as the crystallization of nanomaterials, amorphous materials and thin films. One chapter...



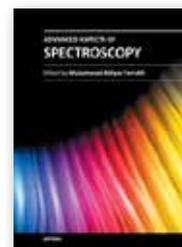
ISBN: 978-953-51-1592-2 • Hard cover, 378 Pages
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ORGANIC CHEMISTRY

Advanced Aspects of Spectroscopy

Editor: Muhammad Akhyar Farrukh

Spectroscopy is the study of absorption and emission of electromagnetic radiation due to the interaction between matter and energy that energy depends on the specific wavelength of electromagnetic radiation. This field has proven invaluable research tool in a number of areas including chemistry, physics, biology, medicine and ecology. The spectroscopic field of research is growing day-by-day and scientists are exploring new areas in this field by introducing new techniques. The main purpose of this book is to highlight these new spectroscopic techniques like Magnetic Induction Spectroscopy, Laser-Induced Breakdown Spectroscopy, X-ray Photoelectron Spectroscopy, Low Energy Electron Loss Spectroscopy, Micro- to Macro-Raman Spectroscopy, Liquid-Immersion Raman...



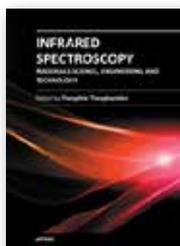
ISBN: 978-953-51-0715-6 • Hard cover, 548 Pages
Published by: InTech - CBS Edition: 2016 • Price: 175.00 USD

ORGANIC CHEMISTRY

Infrared Spectroscopy - Materials Science, Engineering and Technology

Editor: Theophile Theophanides

The present book is a definitive review in the field of Infrared (IR) and Near Infrared (NIR) Spectroscopies, which are powerful, non invasive imaging techniques. This book brings together multidisciplinary chapters written by leading authorities in the area. The book provides a thorough overview of progress in the field of applications of IR and NIR spectroscopy in Materials Science, Engineering and Technology. Through a presentation of diverse applications, this book aims at bridging various disciplines and provides a platform for collaborations among scientists.



ISBN: 978-953-51-0537-4 • Hard cover, 524 Pages
Published by: InTech - CBS Edition: 2016 • Price: **175.00 USD**

CHEMISTRY

Spectroscopy Vol1

Editor: Multiple Contributors

This is the first of two volumes on spectroscopy. Today, spectroscopic techniques are applied in a huge range of scientific and engineering-related endeavors from ecology to astronomy. With over thirty chapters, this book describes some general theoretical principles and also highlights a number of current applications where spectroscopy is being used successfully. Two main areas of focus in the book are materials science/engineering (e.g. characterization of polymers, nanocomposites and thin films), and spectroscopic analysis of organic compounds including porphyrins, antibiotics, polyphenols, amino acids and pesticide residues. Both qualitative and quantitative spectroscopic techniques are discussed. Spectroscopic techniques covered in the book include infrared (including FTIR...



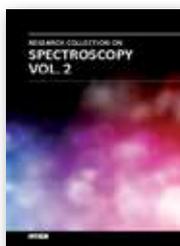
ISBN: 978-953-51-1648-6 • Hard cover, 350 Pages
Published by: InTech - CBS Edition: 2016 • Price: **150.00 USD**

CHEMISTRY

Spectroscopy Vol2

Editor: Multiple Contributors

This is the second of two volumes on spectroscopy. Today, spectroscopic techniques are applied in a huge range of scientific and engineering-related endeavors from ecology to astronomy. With over thirty chapters, this book describes some general theoretical principles and also highlights a number of current applications where spectroscopy is being used successfully. Two main areas of focus in the book are materials science/engineering (e.g. characterization of polymers, nanocomposites and thin films), and spectroscopic analysis of organic compounds including porphyrins, antibiotics, polyphenols, amino acids and pesticide residues. Both qualitative and quantitative spectroscopic techniques are discussed. Spectroscopic techniques covered in the book include infrared (including FTIR...



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PHYSICAL AND THEORETICAL CHEMISTRY

Green Chemistry - Environmentally Benign Approaches

Editor: Mazaahir Kidwai

Green chemistry is chemistry for the environment. It is really a philosophy and way of thinking that can help chemistry in research and production to develop more eco-friendly solutions. Green chemistry is considered an essential piece of a comprehensive program to protect human health and the environment. In its essence, green chemistry is a science-based non-regulatory and economically driven approach to achieving the goals of environmental protection and sustainable development. Combining the technological progress with environmental safety is one of the key challenges of the millennium. In this context, this book describes the environmentally benign approaches for the industries as well as chemical laboratories. In order to provide an insight into step...



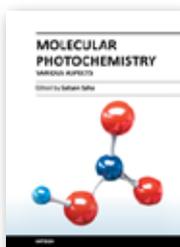
ISBN: 978-953-51-0334-9 • Hard cover, 166 Pages
Published by: InTech - CBS Edition: 2016 • Price: **150.00 USD -20%**

PHYSICAL AND THEORETICAL CHEMISTRY

Molecular Photochemistry - Various Aspects

Editor: Satyen Saha

There have been various comprehensive and stand-alone text books on the introduction to Molecular Photochemistry which provide crystal clear concepts on fundamental issues. This book entitled "Molecular Photochemistry - Various Aspects" presents various advanced topics that inherently utilizes those core concepts/techniques to various advanced fields of photochemistry and are generally not available. The purpose of publication of this book is actually an effort to bring many such important topics clubbed together. The goal of this book is to familiarize both research scholars and post graduate students with recent advancement in various fields related to Photochemistry. The book is broadly divided in five parts: the photochemistry I) in solution, II) of metal oxides...



ISBN: 978-953-51-0446-9 • Hard cover, 294 Pages
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ENVIRONMENTAL SCIENCES

Sustainable Natural Resources Management

Editor: Abidi Kaswamila

Natural resources conservation is one of the dilemmas currently facing mankind in both developed and the developing world. The topic is of particular importance for the latter, where the majority depend on terrestrial ecosystems for livelihood; more than one billion people live in abject poverty earning less than a dollar per day; more than 3.7 billion suffer from micronutrient deficiency and more than 800 million suffer from chronic hunger. Population increase, resource use conflicts, technological advancements, climate change, political doldrums, and unsustainable use and harvesting of resources have all put more pressure on natural resources leading to land degradation and poverty. To achieve a win-win situation, we need to change...



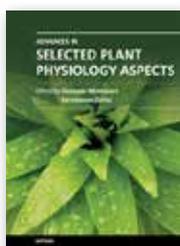
ISBN: 978-953-307-670-6 • Hard cover, 166 Pages
Published by: InTech - CBS Edition: 2014 • Price: **104.95 USD**

ENVIRONMENTAL SCIENCES

Advances in Selected Plant Physiology Aspects

Editor: Giuseppe Montanaro

The book provides general principles and new insights of some plant physiology aspects covering abiotic stress, plant water relations, mineral nutrition and reproduction. Plant response to reduced water availability and other abiotic stress (e.g. metals) have been analysed through changes in water absorption and transport mechanisms, as well as by molecular and genetic approach. A relatively new aspects of fruit nutrition are presented in order to provide the basis for the improvement of some fruit quality traits. The involvement of hormones, nutritional and proteomic plant profiles together with some structure/function of sexual components have also been addressed. Written by leading scientists from around the world it may serve as source of methods, theories...



ISBN: 978-953-51-0557-2 • Hard cover, 388 Pages
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ENVIRONMENTAL SCIENCES

Air Pollution - A Comprehensive Perspective

Editor: Budi Haryanto

The links between air pollutants and health impacts are many and complex. The environmental health community is being challenged to take stronger mitigation to respect population health and is taking opportunities to further their implication. Recognizing, observing, and analyzing exposures are a promising way forward, but also raise a myriad of new challenges and questions, including what such approaches are, when and how they can put into practice, and what their implications are for protecting human health. This book gives an overview of key issues in air pollution. Reviews and research papers describe air pollution in a variety of context, such as: evolution of air pollutant, urban structure effects, exposure in agriculture, surface ozone monitoring, the respiratory...



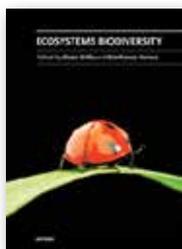
ISBN: 978-953-51-0705-7 • Hard cover, 390 Pages
Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

ENVIRONMENTAL SCIENCES

Ecosystems Biodiversity

Editor: Oscar Grillo

Ecosystems can be considered as dynamic and interactive clusters made up of plants, animals and micro-organism communities. Inevitably, mankind is an integral part of each ecosystem and as such enjoys all its provided benefits. Driven by the increasing necessity to preserve the ecosystem productivity, several ecological studies have been conducted in the last few years, highlighting the current state in which our planet is, and focusing on future perspectives. This book contains comprehensive overviews and original studies focused on hazard analysis and evaluation of ecological variables affecting species diversity, richness and distribution, in order to identify the best management strategies to face and solve the conservation problems.



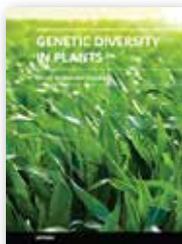
ISBN: 978-953-307-417-7 • Hard cover, 464 Pages
Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

ENVIRONMENTAL SCIENCES

Genetic Diversity in Plants

Editor: Mahmut Caliskan

Genetic diversity is of fundamental importance in the continuity of a species as it provides the necessary adaptation to the prevailing biotic and abiotic environmental conditions, and enables change in the genetic composition to cope with changes in the environment. Genetic Diversity in Plants presents chapters revealing the magnitude of genetic variation existing in plant populations. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in plants and also, the detection of genes influencing economically important traits. The purpose of the book is to provide a glimpse into the dynamic process of genetic variation by presenting the thoughts of scientists who are engaged in the generation of new ideas and techniques employed...



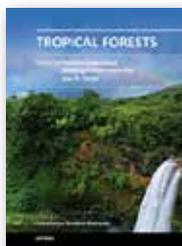
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Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

ENVIRONMENTAL SCIENCES

Tropical Forests

Editor: Padmini Sudarshana

The astounding richness and biodiversity of tropical forests is rapidly dwindling. This has severely altered the vital biogeochemical cycles of carbon, phosphorus, nitrogen etc. and has led to the change in global climate and pristine natural ecosystems. In this elegant book, we have defined "Tropical Forests" broadly, into five different themes: (1) tropical forest structure, synergy, synthesis, (2) tropical forest fragmentation, (3) impact of anthropogenic pressure, (4) Geographic Information System and remote sensing, and (5) tropical forest protection and process. The cutting-edge synthesis, detailed current reviews, several original data-rich case studies, recent experiments/experiences from leading scientists across the world are presented as unique chapters. Though, the chapters differ noticeably in...



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ENVIRONMENTAL SCIENCES

Agroforestry for Biodiversity and Ecosystem Services - Science and Practice

Editor: Martin Leckson Kaonga

Agroforestry has great potential for reducing deforestation and forest degradation, providing rural livelihoods and habitats for species outside formally protected land, and alleviating resource-use pressure on conservation areas. However, widespread adoption of agroforestry innovations is still constrained by a myriad of factors including design features of candidate agroforestry innovations, perceived needs, policies, availability and distribution of factors of production, and perception of risks. Understanding the science, and factors that regulate the adoption, of agroforestry and how they impact the implementation of agroforestry is vitally important. Agroforestry for Biodiversity and Ecosystem Services: Science and Practice examines design features and...



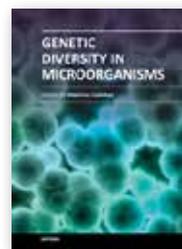
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ENVIRONMENTAL SCIENCES

Genetic Diversity in Microorganisms

Editor: Mahmut Caliskan

Genetic Diversity in Microorganisms presents chapters revealing the magnitude of genetic diversity of microorganisms living in different environmental conditions. The complexity and diversity of microbial populations is by far the highest among all living organisms. The diversity of microbial communities and their ecologic roles are being explored in soil, water, on plants and in animals, and in extreme environments such as the arctic deep-sea vents or high saline lakes. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in microorganisms. The purpose of the book is to provide a glimpse into the dynamic process of genetic diversity of microorganisms by presenting the thoughts of scientists who are engaged...



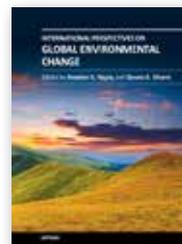
ISBN: 978-953-51-0064-5 • Hard cover, 382 Pages
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ENVIRONMENTAL SCIENCES

International Perspectives on Global Environmental Change

Editor: Stephen Young

Environmental change is increasingly considered a critical topic for researchers across multiple disciplines, as well as policy makers throughout the world. Mounting evidence shows that environments in every part of the globe are undergoing tremendous human-induced change. Population growth, urbanization and the expansion of the global economy are putting increasing pressure on ecosystems around the planet. To understand the causes and consequences of environmental change, the contributors to this book employ spatial and non-spatial data, diverse theoretical perspectives and cutting edge research tools such as GIS, remote sensing and other relevant technologies. International Perspectives on Global Environmental Change brings...



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Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

ENVIRONMENTAL SCIENCES

Advances in Landscape Architecture

Editor: Murat Özyavuz

Landscape architecture is the design of outdoor and public spaces to achieve environmental, socio-behavioral, and/or aesthetic outcomes. It involves the systematic investigation of existing social, ecological, and geological conditions and processes in the landscape, and the design of interventions that will produce the desired outcome. The scope of the profession includes: urban design; site planning; town or urban planning; environmental restoration; parks and recreation planning; visual resource management; green infrastructure planning and provision; and private estate and residence landscape master planning and design - all at varying scales of design, planning and management. This book contains chapters on recent developments in studies of landscape architecture. For this reason I believe the...



ISBN: 978-953-51-1167-2 • Hard cover, 938 Pages
Published by: InTech - CBS Edition: 2016 • Price: **250.00 USD -20%**

ENVIRONMENTAL SCIENCES

Air Quality - New Perspective

Editor: Gustavo Lopez Badilla, Benjamin Valdez and Michael Schorr

This book contains 15 chapters reporting air pollution of interest to experts in academia and industrial plants dealing with the environmental issues. These chapters emphasize the problems of air pollution involving the human sector as an essential part in the control of air pollutants. The book contains an analysis of various geographic regions and evaluation of different activities related to these areas. Descriptive analyzes present the generation of air pollution and its effect on society and materials evaluations. The major sources of emission of pollutants and the damage that they originate in the towns and industrial plants are reported. This volume provides methods and tools for assessment according to each location. Other important...



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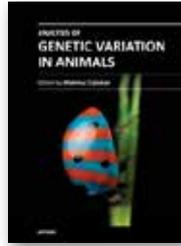
ENVIRONMENTAL SCIENCES

Analysis of Genetic Variation in Animals

Editor: Mahmut Caliskan

Analysis of Genetic Variation in Animals includes chapters revealing the magnitude of genetic variation existing in animal populations. The genetic diversity between and within populations displayed by molecular markers receive extensive interest due to the usefulness of this information in breeding and conservation programs. In this concept molecular markers give valuable information. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in animals and also, the detection of genes influencing economically important traits. The purpose of the book is to provide a glimpse into the dynamic process of genetic variation in animals by presenting the thoughts of scientists who are engaged in the generation of new...

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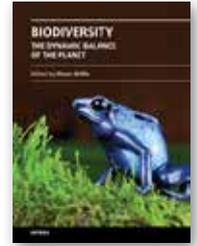
ENVIRONMENTAL SCIENCES

Biodiversity - The Dynamic Balance of the Planet

Editor: Oscar Grillo

The current world biodiversity consists of an inestimable amount of living forms, that at all levels, from genes to biomes, from individuals to populations, from species to communities, are in constant pursuit of the best strategies to react to the natural and anthropic environmental changes. The arrangement of new and dynamic ecosystems balanced by the formation and the vanishing of species, is the direct consequence of these changes. This book contains comprehensive overviews and original studies focused on ecological and ecosystem functioning studies, hazards and conservation management, assessment of environmental variables affecting species diversity, also considering species richness and distribution, in order to identify the best management strategies...

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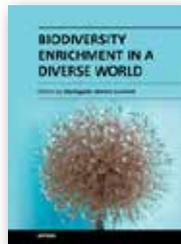
ENVIRONMENTAL SCIENCES

Biodiversity Enrichment in a Diverse World

Editor: Gbolagade Akeem Lameed

This book - Biodiversity Enrichment in a Diverse World - considered biodiversity (plants, animals, fungi, and microbes) from three different angles: genetics, species, and ecosystems. The relationships between them are complex and it looks at these aspects from different angles and also various interventions at different levels. The scientific approach of the book demonstrates that the three levels are closely inter-connected and action is therefore needed to conserve and protect the systems if the benefits provided to human life will continue to be available. However, conservation of the biological diversity is essentially an umbrella term for traditional species, relationship to human health, ecosystem conservation and the need to manage the human use of...

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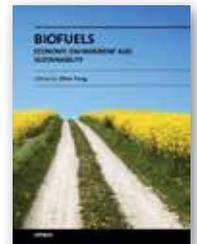
ENVIRONMENTAL SCIENCES

Biofuels - Economy, Environment and Sustainability

Editor: Zhen Fang

This book overviews social, economic, environmental and sustainable issues by the use of biofuels written by professionals. It should be of interest for students, researchers, scientists and technologists in biofuels.

ISBN: 978-953-51-0950-1 • Hard cover, 394 Pages

Published by: InTech - CBS Edition: 2016 • **Price: 180.00 USD -20%**

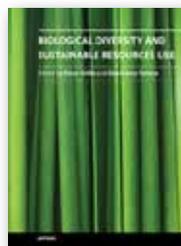
ENVIRONMENTAL SCIENCES

Biological Diversity and Sustainable Resources Use

Editor: Oscar Grillo and Gianfranco Venora

Biological Diversity and Sustainable Resources Use is a very interesting volume, including attractive overviews and original case studies mainly focused on socio-economic effects of the right management of the ecosystems biodiversity, as well as on the useful integration between human activities and environmental responses. Ecological, medical and historical aspects of the sustainable development are also discussed in this book which consists of articles written by international experts, offering the reader a clear and extensive view of the present condition in which our planet is.

ISBN: 978-953-307-706-2 • Hard cover, 166 Pages

Published by: InTech - CBS Edition: 2016 • **Price: 150.00 USD -20%**

ENVIRONMENTAL SCIENCES

Changing Diversity in Changing Environment

Editor: Oscar Grillo and Gianfranco Venora

As everybody knows, the dynamic interactions between biotic and abiotic factors, as well as the anthropic ones, considerably affect global climate changes and consequently biology, ecology and distribution of life forms of our planet. These important natural events affect all ecosystems, causing important changes on biodiversity. Systematic and phylogenetic studies, biogeographic distribution analysis and evaluations of diversity richness are focal topics of this book written by international experts, some even considering economical effects and future perspectives on the managing and conservation plans.

ISBN: 978-953-307-796-3 • Hard cover, 402 Pages

Published by: InTech - CBS Edition: 2016 • **Price: 180.00 USD -20%**

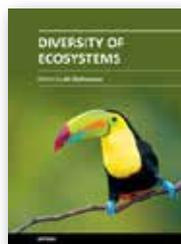
ENVIRONMENTAL SCIENCES

Diversity of Ecosystems

Editor: Mahamane Ali

The ecosystems present a great diversity worldwide and use various functionalities according to ecologic regions. In this new context of variability and climatic changes, these ecosystems undergo notable modifications amplified by domestic uses of which it was subjected to. Indeed the ecosystems render diverse services to humanity from their composition and structure but the tolerable levels are unknown. The preservation of these ecosystemic services needs a clear understanding of their complexity. The role of research is not only to characterise the ecosystems but also to clearly define the tolerable usage levels. Their characterisation proves to be important not only for the local populations that use it but also for the conservation of biodiversity. Hence, the measurement...

ISBN: 978-953-51-0572-5 • Hard cover, 496 Pages

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ENVIRONMENTAL SCIENCES

Earth and Environmental Sciences

Editor: Imran Ahmad Dar and Mithas Ahmad Dar

We are increasingly faced with environmental problems and required to make important decisions. In many cases an understanding of one or more geologic processes is essential to finding the appropriate solution. Earth and Environmental Sciences are by their very nature a dynamic field in which new issues continue to arise and old ones often evolve. The principal aim of this book is to present the reader with a broad overview of Earth and Environmental Sciences. Hopefully, this recent research will provide the reader with a useful foundation for discussing and evaluating specific environmental issues, as well as for developing ideas for problem solving. The book has been divided into nine sections; Geology, Geochemistry, Seismology, Hydrology, Hydrogeology, Mineralogy, Soil, Remote Sensing and...

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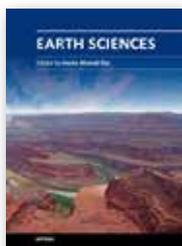
ENVIRONMENTAL SCIENCES

Earth Sciences

Editor: Imran Ahmad Dar

The studies of Earth's history and of the physical and chemical properties of the substances that make up our planet, are of great significance to our understanding both of its past and its future. The geological and other environmental processes on Earth and the composition of the planet are of vital importance in locating and harnessing its resources. This book is primarily written for research scholars, geologists, civil engineers, mining engineers, and environmentalists. Hopefully the text will be used by students, and it will continue to be of value to them throughout their subsequent professional and research careers. This does not mean to infer that the book was written solely or mainly with the student in mind. Indeed from the point of view of the researcher in Earth and Environmental Science it could...

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ENVIRONMENTAL SCIENCES

Environmental Biosensors

Editor: Vernon Somerset

This book is a collection of contributions from leading specialists on the topic of biosensors for health, environment and biosecurity. It is divided into three sections with headings of current trends and developments; materials design and developments; and detection and monitoring. In the section on current trends and developments, topics such as biosensor applications for environmental and water monitoring, agro-industry applications, and trends in the detection of nerve agents and pesticides are discussed. The section on materials design and developments deals with topics on new materials for biosensor construction, polymer-based microsystems, silicon and silicon-related surfaces for biosensor applications, including hybrid film biosensor systems. Finally, in the detection and monitoring...

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ENVIRONMENTAL SCIENCES

Environmental Change and Sustainability

Editor: Steven Silvern and Stephen Young

Environments around the globe are undergoing human-induced change. Human population growth, rapid urbanization, expanding global economy, and the diffusion of western consumer lifestyles are placing increasing pressure on natural and social systems. Global institutions, nation-states, and local communities are seeking to identify and employ sustainable solutions to these environmental and socio-economic challenges. Sustainability has emerged as a policy discourse that seeks to balance the desire and need for economic growth with the protection of the environment, and the promotion of social and environmental justice. This book contributes to the study and search for sustainable responses to global environmental change. The authors of this volume explore environmental...

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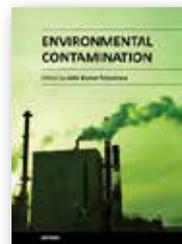
ENVIRONMENTAL SCIENCES

Environmental Contamination

Editor: Jatin Kumar Srivastava

Nature minimizes the hazards, while man maximizes them. This is not an assumption, but a basic idea of the findings of scientists from all over the world. The last two centuries have witnessed the indiscriminate development and overexploitation of natural resources by man causing alterations and impairment of our own environment. Environmental contamination is the result of the irrational use of resources at the wrong place and at the wrong time. Environmental contamination has changed the lifestyle of people virtually all over the world, and has reduced the extent of life on earth. Today, we are bound to compromises with such environmental conditions, which was not anticipated for the sustenance of humanity and other life forms. Let us find out the problem and its management within...

ISBN: 978-953-51-0120-8 • Hard cover, 232 Pages
Published by: InTech - CBS Edition: 2016 • Price: **150.00 USD -20%**



ENVIRONMENTAL SCIENCES

Environmental Land Use Planning

Editor: Seth Appiah-Opoku

Environmental Land Use Planning brings together leading scholars in the field of environmental problem solving to examine environmental problems and effects on land uses; analytical methods and tools in the field; and the role of governments, community grants and tradable permits in environmental planning. The chapters are based on empirical research from countries around the globe including Canada, USA, China, Nigeria, Germany, Serbia, Venezuela, and Brazil. The book discusses such issues as predicting changes in land use pattern, ecological footprint analysis, socioeconomic and behavioral modeling, and flood control approaches. It is insightful and serves as an important resource and reference material on environmental management.

ISBN: 978-953-51-0832-0 • Hard cover, 244 Pages
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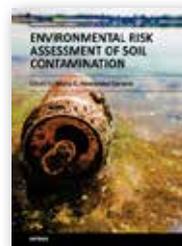
ENVIRONMENTAL SCIENCES

Environmental Risk Assessment of Soil Contamination

Editor: Maria C. Hernandez-Soriano

Soil is an irreplaceable resource that sustains life on the planet, challenged by food and energy demands of an increasing population. Therefore, soil contamination constitutes a critical issue to be addressed if we are to secure the life quality of present and future generations. Integrated efforts from researchers and policy makers are required to develop sound risk assessment procedures, remediation strategies and sustainable soil management policies. Environmental Risk Assessment of Soil Contamination provides a wide depiction of current research in soil contamination and risk assessment, encompassing reviews and case studies on soil pollution by heavy metals and organic pollutants. The book introduces several innovative approaches for soil remediation...

ISBN: 978-953-51-1235-8 • Hard cover, 918 Pages
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ENVIRONMENTAL SCIENCES

Air Pollution

Editor: Multiple Contributors

Rapid industrialisation in the developing world has meant that developing countries are now facing the same challenges relating to air pollution as the West did up to a century ago. Furthermore, the increased migration of populations to urban areas and the growth of mega cities indicate a pressing need to understand how air pollution in urban areas can be measured and controlled. This book describes several studies on the control of air pollution, including methods used for emission reduction in coking plants and the potential use of non-thermal plasma systems for removal of NOx emissions from vehicles, power stations and industrial plant. Several chapters will focus on monitoring air pollution on a large and small scale in a variety of indoor and outdoor environments, making reference to case studies...

ISBN: 978-953-51-1376-8 • Hard cover, 336 Pages
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ENVIRONMENTAL SCIENCES

Biodiversity Vol1

Editor: Multiple Contributors

In recent decades, scientists and the public have become increasingly aware of, and concerned by, the threat to the diversity of life on the planet posed by climate change and increasing environmental pressures. This is the first volume in "Biodiversity", a major, four-volume collection of high-quality research that seeks to provide readers with a comprehensive view of what biodiversity is, the threats faced and the possibilities for management and preservation. Major themes covered include: the importance of biodiversity; how the biodiversity of flora and fauna can be enriched; approaches to nature conservation across the world; the biodiversity of specific ecosystems and their vulnerability to damage or destruction by environmental pressures; the dynamics, biological interactions and interrelations...

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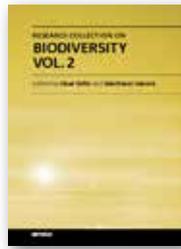
ENVIRONMENTAL SCIENCES

Biodiversity Vol2

Editor: Multiple Contributors

In recent decades, scientists and the public have become increasingly aware of, and concerned by, the threat to the diversity of life on the planet posed by climate change and increasing environmental pressures. This is the second volume in *Biodiversity*, a major, four-volume collection of high-quality research that seeks to provide readers with a comprehensive view of what biodiversity is, the threats faced and the possibilities for management and preservation. Major themes covered include: the importance of biodiversity; how the biodiversity of flora and fauna can be enriched; approaches to nature conservation across the world; the biodiversity of specific ecosystems and their vulnerability to damage or destruction by environmental pressures; the dynamics, biological...

ISBN: 978-953-51-1399-7 • Hard cover, 420 Pages

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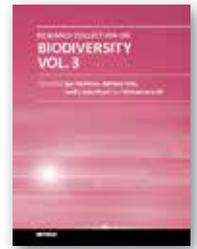
ENVIRONMENTAL SCIENCES

Biodiversity Vol3

Editor: Multiple Contributors

In recent decades, scientists and the public have become increasingly aware of, and concerned by, the threat to the diversity of life on the planet posed by climate change and increasing environmental pressures. This is the third volume in "Biodiversity", a major, four-volume collection of high-quality research that seeks to provide readers with a comprehensive view of what biodiversity is, the threats faced and the possibilities for management and preservation. Major themes covered include: the importance of biodiversity; how the biodiversity of flora and fauna can be enriched; approaches to nature conservation across the world; the biodiversity of specific ecosystems and their vulnerability to damage or destruction by environmental pressures; the dynamics, biological interactions and interrelations...

ISBN: 978-953-51-1400-0 • Hard cover, 448 Pages

Published by: InTech - CBS Edition: 2016 • Price: **150.00 USD**

ENVIRONMENTAL SCIENCES

Biodiversity Vol4

Editor: Multiple Contributors

In recent decades, scientists and the public have become increasingly aware of, and concerned by, the threat to the diversity of life on the planet posed by climate change and increasing environmental pressures. This is the fourth volume in "Biodiversity", a major, four-volume collection of high-quality research that seeks to provide readers with a comprehensive view of what biodiversity is, the threats faced and the possibilities for management and preservation. Major themes covered include: the importance of biodiversity; how the biodiversity of flora and fauna can be enriched; approaches to nature conservation across the world; the biodiversity of specific ecosystems and their vulnerability to damage or destruction by environmental pressures; the dynamics, biological interactions and interrelations...

ISBN: 978-953-51-1401-7 • Hard cover, 290 Pages

Published by: InTech - CBS Edition: 2016 • Price: **125.00 USD**

ENVIRONMENTAL SCIENCES

Earth and Environmental Sciences

Editor: Multiple Contributors

The study of the geosciences is of great value in learning about the earth's history and also in helping us to harness its resources and to understand our effect on the environment. This book provides the reader with a broad overview of topics relating to earth science/geology, with case studies taken from locations all over the world including Turkey, Malaysia, India, Mexico, Tunisia, Siberia and the Canadian Arctic. A number of chapters will focus on the characterization, exploration and development of natural resources including coal, precious metals, industrial minerals and of course oil and gas. Other topics discussed include geochemical studies of soil contamination; techniques used for geological mapping of remote areas; the structure and behavior of mud volcanoes (and their association...

ISBN: 978-953-51-1625-7 • Hard cover, 462 Pages

Published by: InTech - CBS Edition: 2016 • Price: **150.00 USD**

ENVIRONMENTAL SCIENCES

Environmental Change

Editor: Multiple Contributors

Humans have always affected their immediate environment but the pressure on the global environment is now far greater than it has ever been, due largely to population growth, the spread of industrialization, and increased living standards across the world. There is currently a great deal of debate about the best way forward in terms of promoting sustainability and mitigating environmental change on a national and international level. This book presents a number of case studies on environmental change taken from different countries across the world, and focuses on a diverse range of environments including tropical mountains, glacier forelands, river watersheds, coastal habitats and deserts/drylands. Issues discussed include metal contamination; the response of microorganisms, plants and...

ISBN: 978-953-51-1579-3 • Hard cover, 306 Pages

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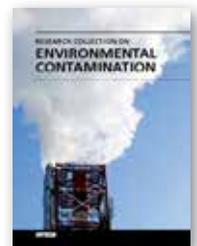
ENVIRONMENTAL SCIENCES

Environmental Contamination

Editor: Multiple Contributors

Virtually every type of industry has the potential to cause environmental contamination and certain contaminants, such as persistent organic pollutants (POPs), are particularly destructive due to their long-term presence in the environment and their tendency to accumulate in human and animal tissue, resulting in significant bioamplification-related health effects. A section in this book focuses on various techniques currently in use/development for remediation of POPs, including titanium dioxide and Fenton's reagent. In this section, reference is made to specific industries with a particularly bad track record in terms of POP generation, such as textile production/finishing. As well as POPs, the book will also discuss remediation, recycling and analysis of other contaminants including heavy...

ISBN: 978-953-51-1361-4 • Hard cover, 544 Pages

Published by: InTech - CBS Edition: 2016 • Price: **175.00 USD**

ENVIRONMENTAL SCIENCES

Landscape Planning and Architecture

Editor: Multiple Contributors

Rapid urban growth is occurring in many countries across the globe, particularly in the developing world; over 50 percent of the world's population now lives in urban areas, and this percentage is expected to increase. Many experts have expressed concerns about sustainability, quality of life and even cultural identity in urban environments, due to factors such as loss of open space and the uniformity brought about by consumerism and globalization. This book brings together over twenty papers describing current thinking on landscape planning/design, architecture and the built environment. A key topic discussed in the book is sustainability, including the role of ecotourism in sustainable development, and a case study on sustainable urban design in Saudi Arabia. Another topic emphasized in the...

ISBN: 978-953-51-1326-3 • Hard cover, 590 Pages

Published by: InTech - CBS Edition: 2016 • Price: **175.00 USD**

ENVIRONMENTAL SCIENCES

Tsunami

Editor: Multiple Contributors

As early as the 5th century BC, it was believed that tsunamis were caused by submarine earthquakes, but much still remains uncertain about the precise nature of this natural disaster. Tsunamis have of course always wreaked major destruction, but the problem is far greater now because of increased coastal populations. An improved understanding of how tsunamis form, together with the development of reliable and timely tsunami warning systems, is therefore of vital importance. This book brings together much of the recent research and current thinking on tsunamis, describing the methods currently being developed to measure and predict tsunami magnitude such as bottom pressure sensors, kinematic GPS buoys, HF radar and electromagnetic sensors, and their potential use in early warning...

ISBN: 978-953-51-1712-4 • Hard cover, 282 Pages

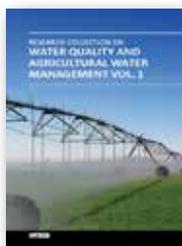
Published by: InTech - CBS Edition: 2016 • Price: **125.00 USD**

ENVIRONMENTAL SCIENCES

Water Quality and Agricultural Water Management Vol1

Editor: Multiple Contributors

As global warming continues to affect environmental conditions around the world, there is an ever-increasing need for innovative solutions to securing and managing water quality. This book is the first in the two-volume set, Water Quality and Agricultural Water Management, that offers a comprehensive account of all the key areas, problems, issues and approaches in the field, considering crop, soil and irrigation management issues in a range of climate zones. Themes and topics include the genetic development of drought-resistant crops, water pollution monitoring and management, irrigation practices for staple crops such as rice, approaches to sustainable irrigation in challenging environments, the evaluation of water quality in urban and rural settings...



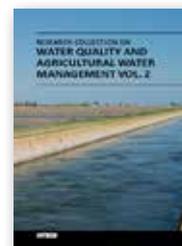
ISBN: 978-953-51-1381-2 • Hard cover, 280 Pages
Published by: InTech - CBS Edition: 2016 • Price: **125.00 USD**

ENVIRONMENTAL SCIENCES

Water Quality and Agricultural Water Management Vol2

Editor: Multiple Contributors

As global warming continues to affect environmental conditions around the world, there is an ever-increasing need for innovative solutions to securing and managing water quality. This book is the second in the two-volume set, Water Quality and Agricultural Water Management that offers a comprehensive account of all the key areas, problems, issues and approaches in the field, considering crop, soil and irrigation management issues in a range of climate zones. Themes and topics include the genetic development of drought-resistant crops, water pollution monitoring and management, irrigation practices for staple crops such as rice, approaches to sustainable irrigation in challenging environments, the evaluation of water quality in urban and rural settings...



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IMMUNOLOGY AND MICROBIOLOGY

Bacteriophages

Editor: İpek Kurtböke

Bacteriophages have received attention as biological control agents since their discovery and recently their value as tools has been further emphasized in many different fields of microbiology. Particularly, in drug design and development programs, phage and prophage genomics provide the field with new insights. Bacteriophages reveals information on the organisms ranging from their biology to their applications in agriculture and medicine. Contributors address a variety of topics capturing information on advancing technologies in the field. The book starts with the biology and classification of bacteriophages with subsequent chapters addressing phage infections in industrial processes and their use as therapeutic or biocontrol agents. Microbiologists, biotechnologists, agricultural, biomedical and...



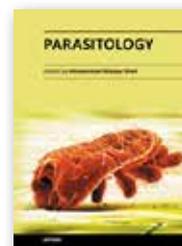
ISBN: 978-953-51-0272-4 • Hard cover, 256 Pages
Published by: InTech - CBS Edition: 2014 • Price: **104.95 USD**

IMMUNOLOGY AND MICROBIOLOGY

Parasitology

Editor: Mohammad Manjur Shah

Parasitology is an established discipline that covers a wide area of subjects, ranging from the basics (study of life cycle, ecology, epidemiology, taxonomy, biodiversity, etc) to the advanced and applied aspects (human and animal related, although control aspect remains the most important task). There is a great scarcity in the amount of available literature that is freely accessible to anyone interested in the subject. This book was conceptualized with this in mind. The entire book is based on the findings of various studies performed by different authors, comprising reviews and original scientific papers. I hope this book will be helpful to diverse audiences like biologists, zoologists, nematologists, parasitologists, microbiologists, medical doctors, pathologists as well as the molecular biologists, by...



ISBN: 978-953-51-0149-9 • Hard cover, 206 Pages
Published by: InTech - CBS Edition: 2014 • Price: **104.95 USD**

IMMUNOLOGY AND MICROBIOLOGY

Immunology and Microbiology Vol1

Editor: Multiple Contributors

This book surveys both immunological and microbiological issues relating to the pathogenesis of individual viruses and to the many implications of bacteriophages. Its purpose is firstly to give a thorough understanding of virus replication through detailed studies of individual viruses, and secondly to enhance existing knowledge of bacteriophages, which, in recent years, have attracted interest as a result of their diverse potential. The first section contains four papers on the subject of virus replication. Together, these papers provide detailed studies of the replication, virulence and immunological effects of common viruses, including the West Nile virus, classical swine fever and the Hepatitis B virus. The second section offers ten perspectives on bacteriophages in medical, pharmaceutical and industrial contexts...



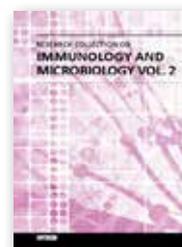
ISBN: 978-953-51-1700-1 • Hard cover, 316 Pages
Published by: InTech - CBS Edition: 2016 • Price: **150.00 USD**

IMMUNOLOGY AND MICROBIOLOGY

Immunology and Microbiology Vol2

Editor: Multiple Contributors

This book surveys both immunological and microbiological issues relating to the pathogenesis of individual viruses and to the many implications of bacteriophages. Its purpose is firstly to give a thorough understanding of virus replication through detailed studies of individual viruses, and secondly to enhance existing knowledge of bacteriophages, which, in recent years, have attracted interest as a result of their diverse potential. The first section contains four papers on the subject of virus replication. Together, these papers provide detailed studies of the replication, virulence and immunological effects of common viruses, including the West Nile virus, classical swine fever and the Hepatitis B virus. The second section offers ten perspectives on bacteriophages in medical, pharmaceutical and industrial contexts...



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MATHEMATICS

Linear Algebra - Theorems and Applications

Editor: Hassan Yasser

Linear algebra occupies a central place in modern mathematics. Also, it is a beautiful and mature field of mathematics, and mathematicians have developed highly effective methods for solving its problems. It is a subject well worth studying for its own sake. This book contains selected topics in linear algebra, which represent the recent contributions in the most famous and widely problems. It includes a wide range of theorems and applications in different branches of linear algebra, such as linear systems, matrices, operators, inequalities, etc. It continues to be a definitive resource for researchers, scientists and graduate students.



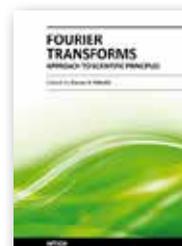
ISBN: 978-953-51-0669-2 • Hard cover, 250 Pages
Published by: InTech - CBS Edition: 2014 • Price: **104.95 USD**

MATHEMATICS

Fourier Transforms - Approach to Scientific Principles

Editor: Goran Nikolić

This book aims to provide information about Fourier transform to those needing to use infrared spectroscopy, by explaining the fundamental aspects of the Fourier transform, and techniques for analyzing infrared data obtained for a wide number of materials. It summarizes the theory, instrumentation, methodology, techniques and application of FTIR spectroscopy, and improves the performance and quality of FTIR spectrophotometers.



ISBN: 978-953-307-231-9 • Hard cover, 468 Pages
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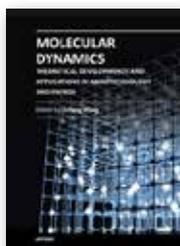
MATHEMATICS

Molecular Dynamics - Theoretical Developments and Applications in Nanotechnology and Energy

Editor: Lichang Wang

Molecular Dynamics is a two-volume compendium of the ever-growing applications of molecular dynamics simulations to solve a wider range of scientific and engineering challenges. The contents illustrate the rapid progress on molecular dynamics simulations in many fields of science and technology, such as nanotechnology, energy research, and biology, due to the advances of new dynamics theories and the extraordinary power of today's computers. This first book begins with a general description of underlying theories of molecular dynamics simulations and provides extensive coverage of molecular dynamics...

ISBN: 978-953-51-0443-8 • Hard cover, 424 Pages

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MATHEMATICS

Fourier Transform

Editor: Multiple Contributors

The Fourier Transform is a hugely important transform in signal processing which is widely used in physics, engineering and biology, and has a vast range of applications. This book brings together research and case studies on current applications of the Fourier Transform and gives readers an insight into its many uses. For ease of use, the book is divided into three thematic sections. The first section considers materials analysis, and particularly the use of mass spectrometry. Areas of investigation include the structure of nanomaterials, natural fibres and cotton trash and the measurement of spectral line profiles as a way of obtaining data on changes in the earth's atmosphere. The second section considers specific applications, such as in heart-rate analysis and in methods for...

ISBN: 978-953-51-1388-1 • Hard cover, 228 Pages

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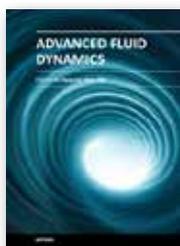
PHYSICS

Advanced Fluid Dynamics

Editor: Hyoung Woo Oh

This book provides a broad range of topics on fluid dynamics for advanced scientists and professional researchers. The text helps readers develop their own skills to analyze fluid dynamics phenomena encountered in professional engineering by reviewing diverse informative chapters herein.

ISBN: 978-953-51-0270-0 • Hard cover, 272 Pages

Published by: InTech - CBS Edition: 2014 • **Price: 104.95 USD**

PHYSICS

Advances in Quantum Field Theory

Editor: Sergey Ketov

Quantum Field Theory is now well recognized as a powerful tool not only in Particle Physics but also in Nuclear Physics, Condensed Matter Physics, Solid State Physics and even in Mathematics. In this book some current applications of Quantum Field Theory to those areas of modern physics and mathematics are collected, in order to offer a deeper understanding of known facts and unsolved problems.

ISBN: 978-953-51-0035-5 • Hard cover, 230 Pages

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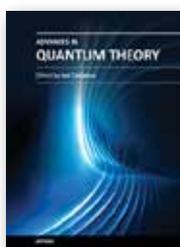
PHYSICS

Advances in Quantum Theory

Editor: Ion Cotaescu

The quantum theory is the first theoretical approach that helps one to successfully understand the atomic and sub-atomic worlds which are too far from the cognition based on the common intuition or the experience of the daily-life. This is a very coherent theory in which a good system of hypotheses and appropriate mathematical methods allow one to describe exactly the dynamics of the quantum systems whose measurements are systematically affected by objective uncertainties. Thanks to the quantum theory we are able now to use and control new quantum devices and technologies in quantum optics and lasers, quantum electronics and quantum computing or in the modern field of nano-technologies.

ISBN: 978-953-51-0087-4 • Hard cover, 248 Pages

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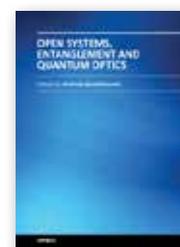
PHYSICS

Open Systems, Entanglement and Quantum Optics

Editor: Andrzej Jamiolkowski

The subject of this book is a presentation of some aspects of modern theory of open quantum systems. It introduces several up-to-date topics, such as detecting quantum entanglement, modeling of quantum noise, quantum communication processes, and computational complexity in the analysis of quantum operations. Also discussed are light propagation in optically dressed media, as well as entropy and information measure for quantized electromagnetic fields media. This book is intended for researchers and students interested in the theory of open quantum systems, quantum information theory and quantum systems interacting with electromagnetic fields.

ISBN: 978-953-51-1141-2 • Hard cover, 138 Pages

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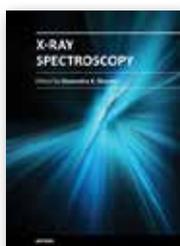
PHYSICS

X-Ray Spectroscopy

Editor: Shatendra K Sharma

The x-ray is the only invention that became a regular diagnostic tool in hospitals within a week of its first observation by Roentgen in 1895. Even today, x-rays are a great characterization tool at the hands of scientists working in almost every field, such as medicine, physics, material science, space science, chemistry, archeology, and metallurgy. With vast existing applications of x-rays, it is even more surprising that every day people are finding new applications of x-rays or refining the existing techniques. This book consists of selected chapters on the recent applications of x-ray spectroscopy that are of great interest to the scientists and engineers working in the fields of material science, physics, chemistry, astrophysics, astrochemistry, instrumentation, and techniques of x-ray...

ISBN: 978-953-307-967-7 • Hard cover, 280 Pages

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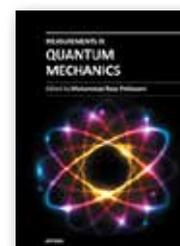
PHYSICS

Measurements in Quantum Mechanics

Editor: Mohammad Reza Pahlavani

Perhaps quantum mechanics is viewed as the most remarkable development in 20th century physics. Each successful theory is exclusively concerned about "results of measurement". Quantum mechanics point of view is completely different from classical physics in measurement, because in microscopic world of quantum mechanics, a direct measurement as classical form is impossible. Therefore, over the years of developments of quantum mechanics, always challenging part of quantum mechanics lies in measurements. This book has been written by an international invited group of authors and it is created to clarify different interpretation about measurement in quantum mechanics.

ISBN: 978-953-51-0058-4 • Hard cover, 348 Pages

Published by: InTech - CBS Edition: 2014 • **Price: 125.00 USD**

PHYSICS

Some Applications of Quantum Mechanics

Editor: Mohammad Reza Pahlavani

Quantum mechanics, shortly after invention, obtained applications in different area of human knowledge. Perhaps, the most attractive feature of quantum mechanics is its applications in such diverse area as, astrophysics, nuclear physics, atomic and molecular spectroscopy, solid state physics and nanotechnology, crystallography, chemistry, biotechnology, information theory, electronic engineering... This book is the result of an international attempt written by invited authors from over the world to response daily growing needs in this area. We do not believe that this book can cover all area of application of quantum mechanics but wish to be a good reference for graduate students and researchers.



ISBN: 978-953-51-0059-1 • Hard cover, 424 Pages
Published by: InTech - CBS Edition: 2014 • Price: **125.00 USD**

PHYSICS

Advances in Quantum Mechanics

Editor: Paul Bracken

The development of quantum mechanics has taken physics in a vastly new direction from that of classical physics from the very start. In fact, there continue at present to be many developments in the subject of a very fundamental nature, such as implications for the foundations of physics, physics of entanglement, geometric phases, gravity and cosmology and elementary particles as well. It is hoped the papers in this volume will provide a much needed resource for researchers with regard to current topics of research in this growing area.



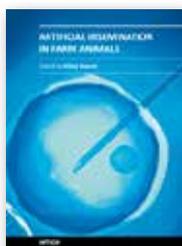
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VETERINARY MEDICINE AND SCIENCE

Artificial Insemination in Farm Animals

Editor: Milad Manafi

Artificial insemination is used instead of natural mating for reproduction purposes and its chief priority is that the desirable characteristics of a bull or other male livestock animal can be passed on more quickly and to more progeny than if that animal is mated with females in a natural fashion. This book contains under one cover 16 chapters of concise, up-to-date information on artificial insemination in buffalos, ewes, pigs, swine, sheep, goats, pigs and dogs. Cryopreservation effect on sperm quality and fertility, new method and diagnostic test in semen analysis, management factors affecting fertility after cervical insemination, factors of non-infectious nature affecting the fertility, fatty acids effects on reproductive performance of ruminants, particularities of bovine artificial...



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VETERINARY MEDICINE AND SCIENCE

Insights from Veterinary Medicine

Editor: Rita Payan Carreira

Under the title "Insights from Veterinary Medicine", this book presents original research results and reviews flashing several distinctive aspects of the Veterinary Medicine Sciences, in which the knowledge has continuously increased over the past decades. Veterinary and Human Medicine have been developed in close association, in part as a reflection of the intertwined relationship found between animals and humans since the establishment of first civilizations. Humans and animals share common mechanisms of disease, thus serving as spontaneous models for the study of particular disorders, such as tumors and cardiac diseases. Furthermore, concerns on the deleterious side-effects of contaminants, in particular over the endocrine axis regulating different body functions and fertility, are on the table, as...



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VETERINARY MEDICINE AND SCIENCE

Veterinary Medicine

Editor: Multiple Contributors

Veterinary medicine is evolving all the time in terms of the range and scope of treatments on offer. This book offers students and practitioners of veterinary medicine the chance to gain an insight into some specific topics and latest developments, and draws on examples and case studies from different parts of the world. Subjects covered include artificial insemination; diagnostic techniques (e.g. electrocardiography and dual-energy X-ray absorptiometry); anesthesia; periodontal disease; tumors; psittacosis; worm infestation in poultry; infection control in pigs; blood profiling and growth performance in cattle; and bovine disorders including BRD, mastitis, non-infectious claw disorders and repeat breeder cow syndrome. In addition, the book also contains a chapter on how veterinary...



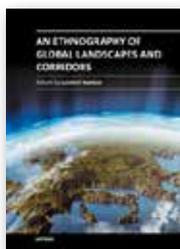
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BUSINESS, MANAGEMENT AND ECONOMICS

An Ethnography of Global Landscapes and Corridors

Editor: Loshini Naidoo

The chapters presented in this book draw on ethnography as a methodology in a variety of disciplines, including education, management, design, marketing, ecology and scientific contexts, illustrating the value of a qualitative approach to research design. The chapters discuss the use of traditional ethnographic methods, such as immersion, observation and interview, as well as innovative ethnographical methods which have been influenced by the new digital culture. The latter challenges notions of identity, field and traditional culture such that people are able to represent themselves in the research process rather than be represented. New approaches to ethnography also examine the use and implication of images in representation as well as critically examining the role and...



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BUSINESS, MANAGEMENT AND ECONOMICS

Globalization - Education and Management Agendas

Editor: Hector Cuadra-Montiel

The book Globalization - Education and Management Agendas takes the ambitious undertaking of presenting multidimensional approaches to those global issues. It consists of 13 chapters divided into three sections: Globalization and Education, Globalization and Management, Globalization and the Firm. Its authors embody a global research culture. One that is plural, growing and dynamic, as it is evidenced in their respective agendas and methodological approaches. The value of this book lies in its diversity, and its merit will be appreciated by a global community of scholars.



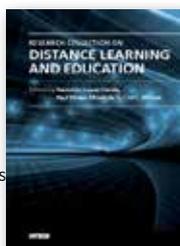
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Distance Learning and Education

Editor: Multiple Contributors

Traditional models of the delivery of higher education are everywhere being challenged; new models appear, offering distance and open-access learning, promising to dissolve old barriers of age, geography, prior experience and financial means that had in the past restricted advanced education to the few. However, these new developments are themselves subject to scrutiny, and demand new methods and concepts of pedagogy. This book chiefly offers empirical studies relating to distance and open learning, drawn from a rich variety of countries and cultures. The first section considers current issues in the social sciences within higher education, and ranges from the pedagogy of cyberfeminist literature to the contemporary relevance of the work of Karl Popper. The second section considers the theory and practice of...



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BUSINESS, MANAGEMENT AND ECONOMICS

Globalization

Editor: Multiple Contributors

Globalization is a multi-dimensional concept; not only does it encompass the ever-increasing integration of the world's economic systems (both in terms of trade and movement of capital), but it also has social, educational and even environmental dimensions which are all inter-related. While globalization presents many opportunities, there are also challenges and costs, and many people are concerned about the effect of globalization on the world's poorer nations. This book presents a number of chapters describing the impact of globalization on various human activities around the world, for example the education system in India, sport in Asia, and manufacturing in the south-eastern states of the US. Other subjects covered include foreign direct investment, sustainable development, tourism, globalization...



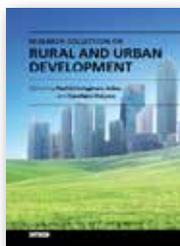
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BUSINESS, MANAGEMENT AND ECONOMICS

Rural and Urban Development

Editor: Multiple Contributors

Urban and rural communities around the globe face many challenges today, and the question of how these communities can evolve and develop to meet the needs of their members in the twenty-first century is one of great importance. "Rural and Urban Development" considers this problem from both sides. Beginning with the assertion that rural development is a necessity in the contemporary world, the first section addresses key questions of rural development. The communities and areas under discussion are diverse, but the issues raised are fundamental in rural development studies: land use conflict, gender and women's rights, renewable energy sources and information technology. In the second section, issues of planning and managing urban development are the focus, with a special...



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BUSINESS, MANAGEMENT AND ECONOMICS

Tourism Industry

Editor: Multiple Contributors

The rise of low cost airlines and the facility for making direct bookings via the Internet mean that many people no longer use a travel agent, and are prepared to search for flights and hotels themselves rather than book a package. Furthermore, many consumers who do opt for package holidays are choosing those which have 'added value' - perhaps a cultural element or the chance to learn a new skill. These factors, together with a greater awareness of sustainability issues on the part of destination countries, are creating many challenges for the tourism industry. This book contains chapters on a number of issues facing the tourist industry today. Topics include measurement of tourist-related economic productivity impact; the effect of natural disasters; and niche markets such as culinary, nautical and ethnic...



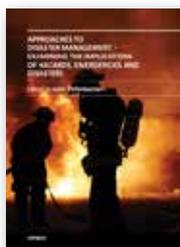
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SOCIAL SCIENCES

Approaches to Disaster Management - Examining the Implications of Hazards, Emergencies and Disasters

Editor: John Tiefenbacher

Approaches to Disaster Management regards critical disaster management issues. Ten original research reports by international scholars centered on disaster management are organized into three general areas of hazards and disaster management. The first section includes discussions of perspectives on vulnerability and on evolving approaches to mitigation. The second section highlights approaches to improve data use and information management in several distinct applications intended to promote prediction and communication of hazard. The third section regards the management of crises and post-event recovery...



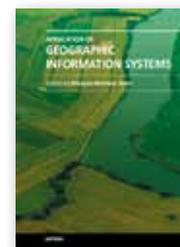
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SOCIAL SCIENCES

Application of Geographic Information Systems

Editor: Bhuiyan Monwar Alam

The importance of Geographic Information Systems (GIS) can hardly be overemphasized in today's academic and professional arena. More professionals and academics have been using GIS than ever, in urban & regional planners, civil engineers, geographers, spatial economists, sociologists, environmental scientists, criminal justice professionals, political scientists, and alike. As such, it is extremely important to understand the theories and applications of GIS in our teaching, professional work, and research. "The Application of Geographic Information Systems" presents research findings that explain GIS's applications in different subfields of social sciences. With several case studies conducted in different parts of the world, the book blends together the...



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SOCIAL SCIENCES

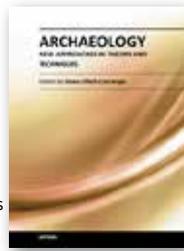
Archaeology, New Approaches in Theory and Techniques

Editor: Imma Ollich-Castanyer

The contents of this book show the implementation of new methodologies applied to archaeological sites. Chapters have been grouped in four sections: New Approaches About Archaeological Theory and Methodology; The Use of Geophysics on Archaeological Fieldwork; New Applied Techniques - Improving Material Culture and Experimentation; and Sharing Knowledge - Some Proposals Concerning Heritage and Education. Many different research projects, many different scientists and authors from different countries, many different historical times and periods, but only one objective: working together to increase our knowledge of ancient populations through archaeological work.

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SOCIAL SCIENCES

Social Sciences and Knowledge Management

Editor: Multiple Contributors

This book examines from a range of perspectives the relationship between the methods and premises of the social sciences and knowledge management, the study of how organizations manage knowledge and information effectively. As organizations become more complex and more geographically decentred, knowledge management approaches, together with frameworks drawn from the social sciences, can help enormously in achieving coordinated working. The first section of the book considers theoretical and methodological approaches. Some of the topics considered include a study of human capital resourcing practices in Lagos State, the use of open-source data mining tools in the social sciences, and a meta-analysis of social research methods at...

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