

## Dr Muhammad Faisal Pu

Bioremediation and BiotechnologyThe Far East and Australasia 2003Grid and Pervasive ComputingAdvances in Materials and Materials ProcessingCrop ImprovementHindustan Year-book and Who's whoA Book of ConquestThe Europa World Year Book 1993Adherence to Long-term TherapiesProceedings of AICCE'19The Middle East and North Africa 2004The Inspiring Life of Abdus SalamEuropa World Year Book 2001The Europa World Year Book, 1991The Middle EastEuropa World Year Book 2005Probability and AlgorithmsThe Middle East and North AfricaAfrica South of The Sahara. 1999Nanomaterials and Plant PotentialPotassium Solubilizing Microorganisms for Sustainable AgricultureThe Middle East and North Africa, 1995The Europa World Year: Kazakhstan - ZimbabweEssential Plant NutrientsSelenium in the Environment and Human HealthProceedings of the 1st International Conference on Smart Innovation, Ergonomics and Applied Human Factors (SEAHF)Cellular and Molecular Toxicology of NanoparticlesModern Age Waste Water ProblemsCivil Democratic IslamCellular and Molecular Toxicology of NanoparticlesThe Europa World Year Book 1994The Pakistan gazetteerMembrane Biological ReactorsHandbook of e-Business SecurityGlobal Advances in Selenium Research from Theory to ApplicationThe Far East and Australasia 2001The Europa Year BookEmerging Carbon-Based Nanocomposites for Environmental ApplicationsFederated LearningPakistan Movement

### Bioremediation and Biotechnology

This edited book is a compilation of findings on the molecular and cellular toxicity of nanoparticles (NPs) in animal cell, human cells, invertebrates. The varied selection of test models will provide better understanding about the horizon of NPs toxicity. Interaction of NPs with cells and its organelles can induce toxicological consequences, including transcriptional and translational alterations, DNA damage, cytotoxicity, oxidative stress, mitochondrial dysfunction and cell death. NPs can get internalized in cells through phagocytosis, macropinocytosis, receptor-mediated endocytosis and passive penetration, which can affect varied cell types. Readers will be benefited with the compilations on basic and molecular facet of NPs toxicity. The chapters will provide a comprehensive information on the state-of-the-art methodologies. The application of toxicogenomic approaches, which is already established in nanotoxicology, has been given special consideration to unravel the toxicodynamics of nanomaterials. Among these approaches, the high-throughput RNA sequencing (RNA-Seq), which is able to build a complete map of transcriptome across different cell types and perturbations upon NPs exposure has been included. The readers are also introduced to the less studied topic on the adsorption of biomolecules (mainly proteins) on the NPs surface, constituting the so-called "biomolecular corona". The book has been designed for scientists engaged in NPs toxicity research. Nonetheless, it should be of interest to a variety of scientific disciplines including marine biology, environmental pollution, genetics, pharmacology, medicine, drug and food material sciences, consumer products. Also, the compilations will be of interest to the environmental watchdogs, federal regulators, risk assessors and the policy makers.

## **The Far East and Australasia 2003**

### **Grid and Pervasive Computing**

The 12 chapters comprehensively cover the development and advances on emerging carbon-based nanocomposites for wastewater applications and discuss the following topics: The emerging carbon-based nanocomposites for remediation of heavy metals and organic pollutants from wastewater; Functional green carbon nanocomposites for heavy-metal treatment in water; Green nanocomposites and their applications in environmentally-friendly carbon nanomaterials; Carbon-based nanocomposites as heterogeneous catalysts for organic reactions in environment-friendly solvents; Carbonaceous nanomaterials for arsenic and chromium removal from waste water; Biochar-based adsorbents for the removal of organic pollutants from aqueous systems; Describes carbon nanomaterials based green nanocomposites; The removal of trihalomethanes from water using nanofiltration membranes and The transformation of wide bandgap semiconductors for visible-light photocatalytic degradation of organic dyes; Nanocomposite materials as electrode materials in microbial fuel cells for the removal of water pollutants; Plasmonic smart nanosensors for the determination of environmental pollutants.

### **Advances in Materials and Materials Processing**

### **Crop Improvement**

This report is based on an exhaustive review of the published literature on the definitions, measurements, epidemiology, economics and interventions applied to nine chronic conditions and risk factors.

### **Hindustan Year-book and Who's who**

Includes "Who's who in the Middle East and North Africa."

### **A Book of Conquest**

### **The Europa World Year Book 1993**

## **Adherence to Long-term Therapies**

Includes "Who's who in the Middle East and North Africa."

## **Proceedings of AICCE'19**

Some of the hardest computational problems have been successfully attacked through the use of probabilistic algorithms, which have an element of randomness to them. Concepts from the field of probability are also increasingly useful in analyzing the performance of algorithms, broadening our understanding beyond that provided by the worst-case or average-case analyses. This book surveys both of these emerging areas on the interface of the mathematical sciences and computer science. It is designed to attract new researchers to this area and provide them with enough background to begin explorations of their own.

## **The Middle East and North Africa 2004**

Selenium is arguably the naturally occurring trace element of greatest concern worldwide. In excessive amounts it can lead to toxicosis and teratogenesis in animals, while the impact of selenium deficiency can be even more significant. Contributors from 22 countries explored the connections and inter-relationships between selenium in the environment, agriculture, human and animal health, and molecular and biochemistry processes to complete this book containing 90 peer-reviewed extended abstracts. The text represents glimpses of the presentations that were delivered at the 3rd International Conference on Selenium in the Environment and Human Health in 2013 in Hefei, China. We are indebted to the international authors representing a multitude of disciplines from academic, industry, and governments for sharing their extraordinary new knowledge on selenium research.

## **The Inspiring Life of Abdus Salam**

## **Europa World Year Book 2001**

This book gathers the latest research, innovations, and applications in the field of civil engineering, as presented by leading national and international academics, researchers, engineers, and postgraduate students at the AWAM International Conference on Civil Engineering 2019 (AICCE'19), held in Penang, Malaysia on August 21-22, 2019. The book covers highly

diverse topics in the main fields of civil engineering, including structural and earthquake engineering, environmental engineering, geotechnical engineering, highway and transportation engineering, water resources engineering, and geomatic and construction management. In line with the conference theme, “Transforming the Nation for a Sustainable Tomorrow”, which relates to the United Nations’ 17 Global Goals for Sustainable Development, it highlights important elements in the planning and development stages to establish design standards beneficial to the environment and its surroundings. The contributions introduce numerous exciting ideas that spur novel research directions and foster multidisciplinary collaborations between various specialists in the field of civil engineering.

### **The Europa World Year Book, 1991**

This book constitutes the refereed proceedings of the 8th International Conference on Grid and Pervasive Computing, GPC 2013, held in Seoul, Korea, in May 2013 and the following colocated workshops: International Workshop on Ubiquitous and Multimedia Application Systems, UMAS 2013; International Workshop DATICS-GPC 2013: Design, Analysis and Tools for Integrated Circuits and Systems; and International Workshop on Future Science Technologies and Applications, FSTA 2013. The 111 revised papers were carefully reviewed and selected from numerous submissions. They have been organized in the following topical sections: cloud, cluster and grid; middleware resource management; mobile peer-to-peer and pervasive computing; multi-core and high-performance computing; parallel and distributed systems; security and privacy; ubiquitous communications, sensor networking, and RFID; ubiquitous and multimedia application systems; design, analysis and tools for integrated circuits and systems; future science technologies and applications; and green and human information technology.

### **The Middle East**

This book presents a picture of the advances in the research of theoretical and practical frameworks of wastewater problems and solutions. The book deals with a basic concept and principles of modern biological, chemical and technical approaches to remediate various hazardous pollutants from wastewater. The latest empirical research findings in wastewater treatment are comprehensively discussed. Examples of low-cost technologies are also included. The book is written for professionals, researchers, academics and students wanting to improve their understanding of the strategic role of environmental protection and advanced applied technologies.

### **Europa World Year Book 2005**

The potassium solubilizing microorganisms (KSMs) are a rhizospheric microorganism which solubilizes the insoluble

potassium (K) to soluble forms of K for plant growth and yield. K-solubilization is carried out by a large number of saprophytic bacteria (*Bacillus mucilaginosus*, *B. edaphicus*, *B. circulans*, *Acidithiobacillus ferrooxidans*, *Paenibacillus* spp.) and fungal strains (*Aspergillus* spp. and *Aspergillus terreus*). Major amounts of K containing minerals (muscovite, orthoclase, biotite, feldspar, illite, mica) are present in the soil as a fixed form which is not directly taken up by the plant. Nowadays most of the farmers use injudicious application of chemical fertilizers for achieving maximum productivity. However, the KSMs are most important microorganisms for solubilizing fixed form of K in soil system. The KSMs are an indigenous rhizospheric microorganism which show effective interaction between soil-plant systems. The main mechanism of KSMs is acidolysis, chelation, exchange reactions, complexolysis and production of organic acid. According to the literature, currently negligible use of potassium fertilizer as chemical form has been recorded in agriculture for enhancing crop yield. Most of the farmers use only nitrogen and phosphorus and not the K fertilizer due to unawareness that the problem of K deficiency occurs in rhizospheric soils. The K fertilizer is also costly as compared to other chemical fertilizers.

## **Probability and Algorithms**

First published in 2005. Routledge is an imprint of Taylor & Francis, an informa company.

## **The Middle East and North Africa**

### **Africa South of The Sahara. 1999**

Covers hundreds of international organizations; offers historical, governmental, and economic data on countries and territories; and provides names and addresses of political, religious, financial, and tourist figures and institutions.

## **Nanomaterials and Plant Potential**

Toxic substances threatens aquatic and terrestrial ecosystems and ultimately human health. The book is a thoughtful effort in bringing forth the role of biotechnology for bioremediation and restoration of the ecosystems degraded by toxic and heavy metal pollution. The introductory chapters of the book deal with the understanding of the issues concerned with the pollution caused by toxic elements and heavy metals and their impacts on the different ecosystems followed by the techniques involved in monitoring of the pollution. These techniques include use of bio-indicators as well as modern techniques for the assessment and monitoring of toxicants in the environment. Detailed chapters discussing the role of microbial biota, aquatic plants, terrestrial plants to enhance the accumulation efficiency of these toxic and heavy metals

are followed by remediation techniques involving myco-remediation, bio-pesticides, bio-fertilizers, phyto-remediation and rhizo-filtration. A sizable portion of the book has been dedicated to the advanced bio-remediation techniques which are finding their way from the laboratory to the field for revival of the degraded ecosystems. These involve bio-films, micro-algae, genetically modified plants and filter feeders. Furthermore, the book is a detailed comprehensive account for the treatment technologies from unsustainable to sustainable. We believe academicians, researchers and students will find this book informative as a complete reference for biotechnological intervention for sustainable treatment of pollution.

### **Potassium Solubilizing Microorganisms for Sustainable Agriculture**

Covers hundreds of international organizations; offers historical, governmental, and economic data on countries and territories; and provides names and addresses of political, religious, financial, and tourist figures and institutions.

### **The Middle East and North Africa, 1995**

First published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

### **The Europa World Year: Kazakhstan - Zimbabwe**

Now in its 50th edition, this title continues to provide the most up-to-date geo-political and economic information for this important world area.

### **Essential Plant Nutrients**

A systematic survey of the political, social and economic aspects of a changing region, this resource covers all the countries in East Asia, South East Asia, Australasia and the Pacific Islands, from Afghanistan to Vietnam.

### **Selenium in the Environment and Human Health**

### **Proceedings of the 1st International Conference on Smart Innovation, Ergonomics and Applied Human Factors (SEAHF)**

Manan Ahmed Asif shows that the Chachnama is a sophisticated work of political theory, embedded in both the Indic and Islamic ethos. His social and intellectual history of this text offers an important corrective to the divisions between Muslim and Hindu that so often define Pakistani and Indian politics today.

## **Cellular and Molecular Toxicology of Nanoparticles**

There are a lot of e-business security concerns. Knowing about e-business security issues will likely help overcome them. Keep in mind, companies that have control over their e-business are likely to prosper most. In other words, setting up and maintaining a secure e-business is essential and important to business growth. This book covers state-of-the art practices in e-business security, including privacy, trust, security of transactions, big data, cloud computing, social network, and distributed systems.

## **Modern Age Waste Water Problems**

This book discusses the latest developments in plant-mediated fabrication of metal and metal-oxide nanoparticles, and their characterization by using a variety of modern techniques. It explores in detail the application of nanoparticles in drug delivery, cancer treatment, catalysis, and as antimicrobial agent, antioxidant and the promoter of plant production and protection. Application of these nanoparticles in plant systems has started only recently and information is still scanty about their possible effects on plant growth and development. Accumulation and translocation of nanoparticles in plants, and the consequent growth response and stress modulation are not well understood. Plants exposed to these particles exhibit both positive and negative effects, depending on the concentration, size, and shape of the nanoparticles. The impact on plant growth and yield is often positive at lower concentrations and negative at higher ones. Exposure to some nanoparticles may improve the free-radical scavenging potential and antioxidant enzymatic activities in plants and alter the micro-RNAs expression that regulate the different morphological, physiological and metabolic processes in plant system, leading to improved plant growth and yields. The nanoparticles also carry out genetic reforms by efficient transfer of DNA or complete plastid genome into the respective plant genome due to their miniscule size and improved site-specific penetration. Moreover, controlled application of nanomaterials in the form of nanofertilizer offers a more synchronized nutrient fluidity with the uptake by the plant exposed, ensuring an increased nutrient availability. This book addresses these issues and many more. It covers fabrication of different/specific nanomaterials and their wide-range application in agriculture sector, encompassing the controlled release of nutrients, nutrient-use efficiency, genetic exchange, production of secondary metabolites, defense mechanisms, and the growth and productivity of plants exposed to different manufactured nanomaterials. The role of nanofertilizers and nano-biosensors for improving plant production and protection and the possible toxicities caused by certain nanomaterials, the aspects that are little explored by now, have also been generously

elucidated.

## **Civil Democratic Islam**

This book addresses a range of real-world issues including industrial activity, energy management, education, business and health. Today, technology is a part of virtually every human activity, and is used to support, monitor and manage equipment, facilities, commodities, industry, business, and individuals' health, among others. As technology evolves, new applications, methods and techniques arise, while at the same time citizens' expectations from technology continue to grow. In order to meet the nearly insatiable demand for new applications, better performance and higher reliability, trustworthiness, security, and power consumption efficiency, engineers must deliver smart innovations, i.e., must develop the best techniques, technologies and services in a way that respects human beings and the environment. With that goal in mind, the key topics addressed in this book are: smart technologies and artificial intelligence, green energy systems, aerospace engineering/robotics and IT, information security and mobile engineering, IT in bio-medical engineering and smart agronomy, smart marketing, management and tourism policy, technology and education, and hydrogen and fuel-cell energy technologies.

## **Cellular and Molecular Toxicology of Nanoparticles**

The improvement of crop species has been a basic pursuit since cultivation began thousands of years ago. To feed an ever increasing world population will require a great increase in food production. Wheat, corn, rice, potato and few others are expected to lead as the most important crops in the world. Enormous efforts are made all over the world to document as well as use these resources. Everybody knows that the introgression of genes in wheat provided the foundation for the "Green Revolution". Later also demonstrated the great impact that genetic resources have on production. Several factors are contributing to high plant performance under different environmental conditions, therefore an effective and complementary use of all available technological tools and resources is needed to meet the challenge.

## **The Europa World Year Book 1994**

## **The Pakistan gazetteer**

In the face of Islam's own internal struggles, it is not easy to see who we should support and how. This report provides detailed descriptions of subgroups, their stands on various issues, and what those stands may mean for the West. Since the

outcomes can matter greatly to international community, that community might wish to influence them by providing support to appropriate actors. The author recommends a mixed approach of providing specific types of support to those who can influence the outcomes in desirable ways.

## **Membrane Biological Reactors**

A unique survey of each country in the region. It includes an extensive collection of facts, statistics, analysis and directory information in one accessible volume.

## **Handbook of e-Business Security**

In recent years the MBR market has experienced unprecedented growth. The best practice in the field is constantly changing and unique quality requirements and management issues are regularly emerging. Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse comprehensively covers the salient features and emerging issues associated with the MBR technology. The book provides thorough coverage starting from biological aspects and fundamentals of membranes, via modeling and design concepts, to practitioners' perspective and good application examples. Membrane Biological Reactors focuses on all the relevant emerging issues raised by including the latest research from renowned experts in the field. It is a valuable reference to the academic and professional community and suitable for undergraduate and postgraduate teaching in Environmental Engineering, Chemical Engineering and Biotechnology.

## **Global Advances in Selenium Research from Theory to Application**

## **The Far East and Australasia 2001**

This book explores the agricultural, commercial, and ecological future of plants in relation to mineral nutrition. It covers various topics regarding the role and importance of mineral nutrition in plants including essentiality, availability, applications, as well as their management and control strategies. Plants and plant products are increasingly important sources for the production of energy, biofuels, and biopolymers in order to replace the use of fossil fuels. The maximum genetic potential of plants can be realized successfully with a balanced mineral nutrients supply. This book explores efficient nutrient management strategies that tackle the over and under use of nutrients, check different kinds of losses from the system, and improve use efficiency of the plants. Applied and basic aspects of ecophysiology, biochemistry, and

biotechnology have been adequately incorporated including pharmaceuticals and nutraceuticals, agronomical, breeding and plant protection parameters, propagation and nutrients managements. This book will serve not only as an excellent reference material but also as a practical guide for readers, cultivators, students, botanists, entrepreneurs, and farmers.

## **The Europa Year Book**

The 4th International Conference on Selenium in the Environment and Human Health was held 18-21 October 2015 in SPaulo, Brazil. This conference provided an effective scientific communication platform for researchers in different disciplines worldwide to elucidate and better understand those complex roles of Se as both essential nutrient and enviro

## **Emerging Carbon-Based Nanocomposites for Environmental Applications**

This edited book is a compilation of findings on the molecular and cellular toxicity of nanoparticles (NPs) in animal cell, human cells, invertebrates. The varied selection of test models will provide better understanding about the horizon of NPs toxicity. Interaction of NPs with cells and its organelles can induce toxicological consequences, including transcriptional and translational alterations, DNA damage, cytotoxicity, oxidative stress, mitochondrial dysfunction and cell death. NPs can get internalized in cells through phagocytosis, macropinocytosis, receptor-mediated endocytosis and passive penetration, which can affect varied cell types. Readers will be benefited with the compilations on basic and molecular facet of NPs toxicity. The chapters will provide a comprehensive information on the state-of-the-art methodologies. The application of toxicogenomic approaches, which is already established in nanotoxicology, has been given special consideration to unravel the toxicodynamics of nanomaterials. Among these approaches, the high-throughput RNA sequencing (RNA-Seq), which is able to build a complete map of transcriptome across different cell types and perturbations upon NPs exposure has been included. The readers are also introduced to the less studied topic on the adsorption of biomolecules (mainly proteins) on the NPs surface, constituting the so-called "biomolecular corona". The book has been designed for scientists engaged in NPs toxicity research. Nonetheless, it should be of interest to a variety of scientific disciplines including marine biology, environmental pollution, genetics, pharmacology, medicine, drug and food material sciences, consumer products. Also, the compilations will be of interest to the environmental watchdogs, federal regulators, risk assessors and the policy makers.

## **Federated Learning**

First published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

## **Pakistan Movement**

Selected, peer reviewed papers from the 2012 International Conference on Advances in Materials and Manufacturing Processes (ICAMMP 2012), December 22-23, 2012, Beihai, China. The 508 papers are grouped as follows: Chapter 1: Composites; Chapter 2: Micro/Nano Materials and Ceramic; Chapter 3: Polymers and Biomaterials; Chapter 4: Optical/Electronic/Magnetic Materials; Chapter 5: Chemical Materials and Technologies; Chapter 6: Energy Materials; Chapter 7: Iron and Steel; Chapter 8: Metal Alloy Materials; Chapter 9: Materials for Building and Structures; Chapter 10: Mechanics of Materials; Chapter 11: Environmental, Research, Friendly Materials and Recycling Waste Technologies; Chapter 12: Surface Engineering/Coatings; Chapter 13: Materials Forming; Chapter 14: Materials Machining; Chapter 15: Welding & Joining; Chapter 16: Laser Processing; Chapter 17: Casting and Solidification; Chapter 18: Geology and Mineral Processing.

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