
Environmental Science Engineering

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*Synergistic Approaches for
Bioremediation of Environmental
Pollutants: Recent Advances and
Challenges* CRC Press

Over the past decade the world has seen the rise of the fascinating and diverse field currently recognized as nanotechnology. This book covers a broad spectrum of topics within nanotechnology, including synthesis techniques, various innovative characterization techniques, growth mechanisms of nanomaterials, the physics and chemistry of nanomaterials, diverse functionalization methods, and the various applications of nanomaterials in biology, therapeutics, energy, food science, and environmental science. It also discusses applications of nanostructured materials, integrative applications such as nano- and micro-electronic sensor devices, as well as agricultural and environmental remediation applications. The book also includes a discussion of advances in

functionalized nanomaterials (0D, 1D, 2D and 3D) and covers the early stages of the development of functionalized nanostructures, considering the future for 2D nanomaterials and 3D objects. Additionally, it includes a chapter on nanomaterial research development that highlights work on the life-cycle analysis of nanostructured materials and toxicity aspects. This book proves useful for researchers and professionals working in the field of nanomaterials and green technology, as well as in the field of nanotechnology. It should be useful to students and specialized researchers in a number of disciplines ranging from biology, chemistry, and materials science to engineering and manufacturing in both academia and industry.

NASA's Fiscal Year 1999 Budget Request, Parts I-IV Springer Nature Sustainable Bioprocessing for a Clean and Green Environment: Concepts and Applications highlights the importance of waste to health in which waste is safely converted to value-added products via bioprocess technologies. Providing fundamental concepts and applications,

this book also offers readers the methodology behind the operation of a variety of biological processes used in developing valuable products from waste. Features: Discusses synthesis and use of environmentally friendly biobased materials, such as biopolymer films and biobased plasticizers Highlights nanotechnology applications in the treatment of pollution and emphasizes the synthesis of biogenic nanomaterials for environmental remediation Describes the use of biosurfactants and emerging algal technologies, such as applications of microalgae in nutraceuticals and biofuel production Details delignification for lignocellulosic biomass This interdisciplinary book offers researchers and practitioners in chemical engineering, environmental engineering, and related fields a broad perspective on fundamentals, technologies, and environmental applications of sustainable bioprocessing.

Environmental Resilience and Transformation in times of COVID-19 Springer Science & Business Media
Algae are sunlight-driven cell factories, and can efficiently absorb CO₂ and convert light energy to chemical energy such as lipid, starch and other carbohydrates and release O₂. Algal feedstock is a promising resource for bioproduct production, given its high photosynthetic efficiency for producing biomass compared to conventional crops. Microalgae can be used for flue-gas and wastewater bioremediation. This book highlights recent breakthroughs in the multidisciplinary areas of algal biotechnology and the chapters feature recent developments from cyanobacteria to eukaryotic algae, from theoretical biology to applied biology. It also includes the latest advancements in algal-based synthetic biology, including

metabolic engineering, artificial biological system construction and green chemicals production. With contributions by leading authorities in algal biotechnology research, it is a valuable resource for graduate students and researchers in the field, and those involved in the study of photosynthesis and green-cell factories.

Economic Affairs Agro Environ Media, Publication Cell of AESA, Agriculture and Environmental Science Academy,
This book focuses on the conventional breeding approach, and on the latest high-throughput genomics tools and genetic engineering / biotechnological interventions used to improve rice quality. It is the first book to exclusively focus on rice as a major food crop and the application of genomics and genetic engineering approaches to achieve enhanced rice quality in terms of tolerance to various abiotic stresses, resistance to biotic stresses, herbicide resistance, nutritional value, photosynthetic performance, nitrogen use efficiency, and grain yield. The range of topics is quite broad and exhaustive, making the book an essential reference guide for researchers and scientists around the globe who are working in the field of rice genomics and biotechnology. In addition, it provides a road map for rice quality improvement that plant breeders and agriculturists can actively consult to achieve better crop production.

Advances in Environmental Science and Engineering Academic Press
This interdisciplinary book incorporates various aspects of environment, ecology, and natural disaster management including cognitive informatics and computing. It fosters research innovation and discovery on basic science and information technology for addressing

various environmental problems, while providing the right solutions in environment, ecology, and disaster management. This book is a unique resource for researchers and practitioners of energy informatics in various scientific, technological, engineering, and social fields to disseminate original research on the application of digital technology and information management theory and practice to facilitate the global transition toward sustainable and resilient energy systems. Cognitive informatics is also the need of the hour and deals with cutting-edge and multidisciplinary research area that tackles the fundamental problems shared by modern informatics, computation, software engineering, AI, cybernetics, cognitive science, neuropsychology, medical science, systems science, philosophy, linguistics, economics, management science, and life sciences, which this book also presents.

Rice Research for Quality Improvement: Genomics and Genetic Engineering Discovery Publishing House

Agriculture and Food Science Book series aims to bring together leading academic scientists, researchers and research scholars to publish their experiences and research results on all aspects of Agriculture and Food Science. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Agriculture and Food Science. High quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or

theoretical work in all areas of Agriculture and Food Science are cordially invited for publication. Authors are solicited to contribute to the book series by submitting articles that illustrate research results, projects, surveying works and industrial experiences that describe significant advances in the following areas, but are not limited to 1. Textile Engineering 2. Agronomy 3. Soil Science 4. Microbiology 5. Physiology 6. Ecology 7. Epidemiology 8. Genetics & Plant Breeding 9. Plant Pathology 10. Entomology 11. Agricultural Biotechnology 12. Environmental Sciences 13. Agricultural Engineering 14. Food Science 15. Waste Management 16. Animal Husbandry and Dairying 17. Agricultural Statistics 18. Food Storage and Preservation 19. Food Technology and Processing 20. Agricultural Sustainability 21. Irrigation 22. Root Morphology Sensing 23. Yield-Monitoring 24. Industrial Crops and Products Engineering 25. Artificial Intelligence in Agriculture 26. Poultry Science 27. Forestry 28. Horticulture 29. Fisheries Science 30. Agriculture Equipments & Smart Technologies 31. Veterinary Sciences 32. Contract & Integrated Farming 33. Sericulture
Secondary Metabolites from Medicinal Plants New Age International

This book consolidates and summarizes smart technologies like IoT, edge computing, and AI used in different aspects of waste material management, mitigation, and recycling for a sustainable environment. One of the cases explains how IoT-based systems and wireless sensors can be used to continuously detect common pollutants such as volatile organic compounds (VOCs), carbon monoxide, and particulate matter (PM) and how the data collected are used to assess the

overall air quality and determine actions for improvements. A collection of practical case studies, this book provides a comprehensive knowledge in smart waste management to readers in universities, research centers, and industries.

Regents' Proceedings New Age International

Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies has been designed to bind novel knowledge of wastewater pollution-induced impacts on various aspects of our environment. The book also contains novel methods and tools for the monitoring and treatment of produced wastewater.

BASICS OF ENVIRONMENTAL SCIENCE AND ENGINEERING Springer Nature

Advances in Chemical Engineering serial, Volume 60 highlights new advances in the field with this new volume presenting interesting chapters. Each chapter is written by an international board of authors. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Chemical Engineering series Includes the latest information on the Circular Economy: Closing the Loop with Chemical Recycling of Solid Plastic Waste

Recent Trends in Management and Utilization of Industrial Sludge

Springer Nature

Green Sustainable Process for Chemical and Environmental Engineering and Science: Solvents for the Pharmaceutical Industry aims at providing a detailed overview of applications of green solvents in pharmaceutical industries. It also focuses on providing a detailed literature survey on the green solvents for pharmaceutical analysis, drug design,

synthesis, and production, etc. It summarizes the applications of various green solvents such as water, cyrene, vegetable oils, ionic liquids, ethyl lactate, eutectic solvents, and glycerol in contrast to toxic solvents. This book provides an overview of the use of green solvents for the sustainable and environmentally friendly development of synthetic methodologies for biomedical and pharmaceutical industries. Up-to-date developments towards the development of solvents for pharmaceutical industry Includes latest advances in pharmaceutical analysis and synthesis using green solvents Outlines eco-friendly green solvents for medicinal applications State-of-the-art overview on the exploration of green solvents for pharmaceutical industries

Environmental Science Springer Nature

About the Book: Environmental Science pertains to a systematic analysis of the natural and man-made world encompassing various scientific, economic, social and ethical aspects. Human impacts leading to large scale degradation of the environment have aroused global concern on environmental issues in the recent years. The apex court has hence, issued directive to impart environmental literacy to all. In this book the fundamental concepts of environmental studies have been introduced and analysed in a simple manner strictly as per the module syllabus designed by the U.G.C. for undergraduate courses in science, humanities, engineering, medicine, pharmacy, commerce, management and law. Besides the undergraduate students of all disciplines the book will also be useful for those appearing in various competitive exams since environmental issues now find a

focus in most of such examinations. The contents of the book will be of interest to all educationists, planners and policy makers. Key features of the book include a simple and holistic approach with illustrations, tables and specific case studies mainly in the Indian context. The basic terminologies have been defined in the text while introducing the topics and some useful terms mentioned in the text have been explained in the glossary for an easy grasp by students of all disciplines.

Assessment of Climate Change over the Indian Region CRC Press

The International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST) was held at the Government Engineering College, Thrissur, Kerala, India, from 18th to 20th January 2018, with the theme, "Society, Energy and Environment", covering related topics in the areas of Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Electronics & Communication Engineering, Computer Science and Architecture. Conflict between energy and environment has been of global significance in recent years. Academic research needs to support the industry and society through socially and environmentally sustainable outcomes. ICETEST 2018 was organized with this specific objective. The conference provided a platform for researchers from different domains, to discuss and disseminate their findings. Outstanding speakers, faculties, and scholars from different parts of the world presented their research outcomes in modern technologies using sustainable technologies.

Encyclopedia of Environmental Science and Engineering CRC Press

Environmental Science is one of the

most important areas of research and study in present time and its application in every aspect of life has also increased. Keeping this in view, almost all Indian Universities have introduced it as a compulsory course. This book is intended to suit the needs of graduate and postgraduate students pursuing environmental studies. To save the natural environment, a good and effective understanding of environmental science is needed. Environmental science is a term that has been widely used in recent years and its manifestations can range from environmental awareness learning through complex and expensive environmental study to operational research studies of environmental education systems.

Proceedings of the 7th International Conference on Advances in Energy Research Sura Books

Under Contemporary Challenges are environmental issues that have received considerable public support and concern; they include: climate change, acid rain, deforestation, endangered species, biodiversity, ecorisk, cultural resources, and sustainability. For most of these issues, there are scientific agreements and disagreements; there are many uncertainties, thus views differ widely. These topics are discussed in considerable detail. Notwithstanding uncertainties and differing views on such topics, all of this information is put in a policy context such that progress towards addressing these contemporary challenges can be made while consensus on the nature and extent of the problem and resultant solutions are being developed. The book provides considerable information about many timeless issues. These issues range from resources needed for sustaining the

quality of life on the planet: air resources to natural resources.

Sustainable Bioprocessing for a Clean and Green Environment CABI

This open access book discusses the impact of human-induced global climate change on the regional climate and monsoons of the Indian subcontinent, adjoining Indian Ocean and the Himalayas. It documents the regional climate change projections based on the climate models used in the IPCC Fifth Assessment Report (AR5) and climate change modeling studies using the IITM Earth System Model (ESM) and CORDEX South Asia datasets. The IPCC assessment reports, published every 6–7 years, constitute important reference materials for major policy decisions on climate change, adaptation, and mitigation. While the IPCC assessment reports largely provide a global perspective on climate change, the focus on regional climate change aspects is considerably limited. The effects of climate change over the Indian subcontinent involve complex physical processes on different space and time scales, especially given that the mean climate of this region is generally shaped by the Indian monsoon and the unique high-elevation geographical features such as the Himalayas, the Western Ghats, the Tibetan Plateau and the adjoining Indian Ocean, Arabian Sea, and Bay of Bengal. This book also presents policy relevant information based on robust scientific analysis and assessments of the observed and projected future climate change over the Indian region.

Green Sustainable Process for Chemical and Environmental Engineering and Science Cambridge University Press

Examination is as old as education itself. The examination process is the past

phase of teaching and learning.

Traditionally, the examination, has been a very tough exercise, fearful enough for students. However, with changing times, the procedure of conventional examination has changed. Now, the modern concept of examination is quite progressive and scientific. The educationists have introduced new terms like evaluation and measurement. Under evaluation, the level of knowledge and learning is weighted and under measurement, a learner is gauged and allotted score of marks.

Futuristic Trends in Agriculture

Engineering & Food Sciences Elsevier

Synergistic Approaches for Bioremediation of Environmental Pollutants: Recent Advances and Challenges focuses on the exploitation of various biological treatment technologies and their use to treat toxic contaminants present in industrial effluent and in restoring contaminated sites, which lacks in a more comprehensive manner in existing titles on similar topics available on the global market. The book comprises advanced biotechnologies and updated information, along with sustainable waste management developments and future directions for researchers and scientists working in the field of microbiology. Provides wide information to readers on the state-of-the-art in the application of biochar, microbes, and their synergistic use for wastewater/industrial effluent treatment and environment protection Summarizes current knowledge on the use of biochar and microbes, even dead biomass, for dye decolorization, degradation and removal of heavy metals which may play a key role in achieving a more productive and sustainable environment Explores different aspects of biological

methods for contaminants removal for better insights into basic and advanced biotechnological applications Includes supplemented tables and figures
Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies CRC Press
 In the last decade, fluorescence microscopy has evolved from a classical “retrospective” microscopy approach into an advanced imaging technique that allows the observation of cellular activities in living cells with increased resolution and dimensions. A bright new future has arrived as the nano era has placed a whole new array of tools in the hands of biophysicists who are keen to go deeper into the intricacies of how biological systems work. Following an introduction to the complex world of optical microscopy, this book covers topics such as the concept of white confocal, nonlinear optical microscopy, fluctuation spectroscopies, site-specific labeling of proteins in living cells, imaging molecular physiology using nanosensors, measuring molecular dynamics, muscle braking and stem cell differentiation.

Annual Commencement Springer

Science & Business Media

The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community. As a result, the latest findings, research and discoveries can be quickly disseminated. This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community. This workshop’s technical sessions include various current and significant topics for applications and scientific developments, including • Optoelectronics • VLSI & ULSI Technology • Photovoltaics • MEMS & Sensors • Device Modeling and Simulation • High Frequency/ Power Devices • Nanotechnology and Emerging Areas • Organic Electronics • Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest research works and also equally supporting this mega event by joining the various organizing committees.

Examination System CRC Press

Approx.494 pages Approx.494 pages