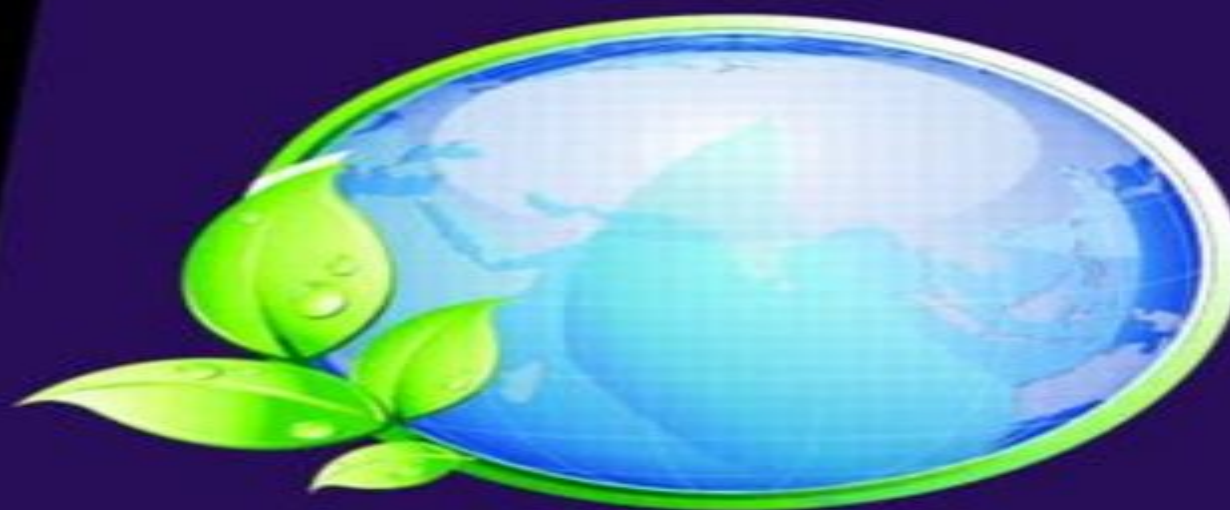


Recent Advances and Issues in

Environmental Science



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Recent Advances In Environmental Science

Peiyue Li, Vetrimurugan Elumalai



Recent Advances In Environmental Science:

Recent Advances in Environmental Science K. G. Hiremath, 2003 The book contains articles covering a wide range of subjects of environmental science The terrestrial section has articles on air pollution solid waste ground water regime western ghats eastern ghats mining medicinal plants ethnobotany role of pesticides agriculture microbial sensors wetlands and ornithological studies The marine environmental aspect such as mangroves application of remote sensing harmful algal blooms bio remediation sustainable management of molluscan resources benthic fauna deep seabed mining and bio fouling have been dealt in the marine environment section

Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions Amjad Kallel, Mohamed Ksibi, Hamed Ben Dhia, Nabil Khélifi, 2017-12-12 This volume includes the papers presented during the 1st Euro Mediterranean Conference for Environmental Integration EMCEI which was held in Sousse Tunisia in November 2017 This conference was jointly organized by the editorial office of the Euro Mediterranean Journal for Environmental Integration in Sfax Tunisia and Springer MENA Publishing Program in Germany It aimed to give a more concrete expression to the Euro Mediterranean integration process by supplementing existing North South programs and agreements with a new multilateral scientific forum that emphasizes in particular the vulnerability and proactive remediation of the Euro Mediterranean region from an environmental point of view This volume gives a general and brief overview on current research focusing on emerging environmental issues and challenges and its applications to a variety of problems in the Euro Mediterranean zone and surrounding regions It contains over five hundred and eighty carefully refereed short contributions to the conference Topics covered include 1 innovative approaches and methods for environmental sustainability 2 environmental risk assessment bioremediation ecotoxicology and environmental safety 3 water resources assessment planning protection and management 4 environmental engineering and management 5 natural resources characterization assessment management and valorization 6 intelligent techniques in renewable energy biomass wind waste solar 7 sustainable management of marine environment and coastal areas 8 remote sensing and GIS for geo environmental investigations 9 environmental impacts of geo natural hazards earthquakes landslides volcanic and marine hazards and 10 the environmental health science natural and social impacts on Human health Presenting a wide range of topics and new results this edited volume will appeal to anyone working in the subject area including researchers and students interested to learn more about new advances in environmental research initiatives in view of the ever growing environmental degradation in the Euro Mediterranean region which has turned environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare

Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd Edition) Mohamed Ksibi, Achraf Ghorbal, Sudip Chakraborty, Helder I. Chaminé, Maurizio Barbieri, Giulia Guerriero, Olfa Hentati, Abdelazim Negm, Anthony Lehmann, Jörg Römbke, Armando Costa Duarte, Elena Xoplaki, Nabil Khélifi, Gilles Colinet, João Miguel Dias, Imed Gargouri, Eric

D. Van Hullebusch, Benigno Sánchez Cabrero, Settimio Ferlisi, Chedly Tizaoui, Amjad Kallel, Sami Rtimi, Sandeep Panda, Philippe Michaud, Jaya Narayana Sahu, Mongi Seffen, Vincenzo Naddeo, 2021-04-09 This book includes over three hundred and seventy five short papers presented during the second EMCEI which was held in Sousse Tunisia in October 2019 After the success of the first EMCEI in 2017 the second installment tackled emerging environmental issues together with new challenges e g by focusing on innovative approaches that contribute to achieving a sustainable environment in the Mediterranean and surrounding regions and by highlighting to decision makers from related sectors the environmental considerations that should be integrated into their respective activities Presenting a wide range of environmental topics and new findings relevant to a variety of problems in these regions this volume will appeal to anyone working in the subject area and particularly to students interested in learning more about new advances in environmental research initiatives in view of the worsening environmental degradation of the Mediterranean and surrounding regions which has made environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare

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Mohamed Ksibi, Abdelazim Negm, Olfa Hentati, Achraf Ghorbal, Arturo Sousa, Jesus Rodrigo-Comino, Sandeep Panda, José Lopes Velho, Ahmed M. El-Kenawy, Nicola Perilli, 2024-05-03 This edited book includes over one hundred and eighty short papers that were presented during the third edition of EMCEI which was held in Sousse Tunisia in June 2021 Nowadays experts as well as most of the general public know that the Mediterranean and surrounding regions are facing environmental degradation that is accelerating at an unprecedented rate The main causes are the natural and human induced climate change increasing pollution urban growth and the overexploitation and unsustainable use of resources due to rapid population growth The effects are seen in several indicators such as the warming more frequent extreme events severe droughts water shortages contraction of natural resources changes in land use and landscape deterioration decreasing agricultural yields biodiversity loss deterioration of the ecosystems corrosion of the natural coastal environment sea level rise and ocean acidification In addition to these more recent issues the Mediterranean and surrounding region naturally experience a number of hazards such as floods droughts desertification fires catastrophic forest diebacks earthquakes and volcanic eruptions By presenting a wide range of environmental topics and new findings relevant to a variety of problems in these regions this book appeals to anyone working in the subject area and especially students interested in learning more about new developments in environmental research initiatives in light of the worsening environmental degradation of the Mediterranean and surrounding areas making environmental and resource protection an increasingly important issue that impedes sustainable development and social well being The book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in and around the Mediterranean Sea and by highlighting to decision makers from relevant sectors the environmental considerations that

should be integrated into their own activities *Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (4th Edition)* Mohamed Ksibi, Arturo Sousa, Olfa Hentati, Haroun Chenchouni, José Lopes Velho, Abdelazim Negm, Jesús Rodrigo-Comino, Riheb Hadji, Sudip Chakraborty, Achraf Ghorbal, 2024-07-17 This edited book includes more than four hundred short papers that were presented during the fourth edition of EMCEI which was held in Sousse Tunisia in November 2022 By presenting a wide range of environmental topics and new findings relevant to a variety of problems in the Mediterranean region and its surroundings the book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in these regions The book appeals to anyone working in the subject area and especially students interested in learning more about new developments in environmental research initiatives in light of the worsening environmental degradation of the Mediterranean and surrounding areas making environmental and resource protection an increasingly important issue that impedes sustainable development and social well being The book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in and around the Mediterranean Sea and by highlighting to decision makers from relevant sectors the environmental considerations that should be integrated into their own activities

Recent Advances and Issues in Environmental Science III, William Hunter, 2011-12-15 This title includes a number of Open Access chapters Environmental science integrates physical and biological sciences to the study of the environment with the goal of solving today's environmental challenges Many of these challenges tie into a greater concept of using the earth's resources sustainably This collection brings together some very i

Recent Advances in Environmental Management Ram Naresh Bharagava, 2018-10-25 This book focuses on the toxicity of various organic and inorganic pollutants their ecotoxicological effects and ecofriendly approaches for remediation of environmental pollutants Extensive focus has been relied on the recent advances in ecofriendly approaches such as bioremediation and phytoremediation technologies including the use of various group of microbes for remediation of environmental pollutants etc Researchers working in the field of bioremediation phytoremediation waste management and related fields will find this compilation most useful for further study to learn about the subject matter

Recent Advances in Environmental Science and Geoscience WSEAS LLC Staff, 2014-03-05 Environmental Science and Geoscience

Recent Advances in Environmental Sustainability Peiyue Li, Vetrinmurugan Elumalai, 2023-07-25 This volume presents a selection of contributions from international environmental scholars and water researchers The book includes significant topics on earth and environmental sciences such as water resources and water quality soil quality and sediment contamination air pollution and climate change and issues related to clean production The themes were chosen according to the current global issues covering major aspects of their respective fields The aim of the book was to discover advances experiences and innovative ideas on issues related to earth and environmental sciences to share experiences and research

findings discuss challenges encountered and solutions in order to have opportunities to establish productive new academic and industry research collaborations

Recent Advances in Ecobiological Research M. P. Sinha, 1997 Contributed articles with reference to India commemoration volume for Prof P N Mehrotra

Recent Advances in Global Meliponiculture Abd Razak, Shamsul Bahri, Tuan Chilek, Tuan Zainazor, Saputra, Jumadil, 2022-12-19 In tandem with the recent surge in interest by various industry players in meliponiculture that see the rapid expansion of the stingless industry globally there is a need to disseminate new knowledge and research findings in stingless beekeeping The demand for honey based products and related activities in meliponiculture opens many opportunities and new challenges in the stingless bee industry that require answers and solutions Recent Advances in Global Meliponiculture highlights the most recent work on meliponine and meliponiculture It disseminates information shares recent works and fosters a global network on stingless bee research Covering topics such as pollination services vertical hive technology and honey applications this premier reference source is an essential resource for practitioners meliponists apiarists students and educators of higher education librarians researchers and academicians

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Recent Advances in Weed Science Bhagirath Singh Chauhan, Gulshan Mahajan, 2025-08-09 In 2014 we published the book Recent Advances in Weed Management This new book discusses recent developments in weed science including future challenges and opportunities in weed science herbicide residue issues harvest weed seed control practices regenerative agriculture site specific weed management nanoherbicides and the role of molecular biology in weed management Recent Advances in Weed Science is generously

supplemented with illustrations and tables This should be an essential book for students taking introductory courses in weed science as well as a reference source for agricultural advisors county agents extension specialists and professionals throughout the agrochemical industry Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (4th Edition) Mohamed Ksibi,Arturo Sousa,Olfa Hentati,Haroun Chenchouni,José Lopes Velho,Abdelazim Negm,Jesus Rodrigo-Comino,Riheb Hadji,Sudip Chakraborty,Achraf Ghorbal,2024-04-03 This edited book includes more than four hundred short papers that were presented during the fourth edition of EMCEI which was held in Sousse Tunisia in November 2022 By presenting a wide range of environmental topics and new findings relevant to a variety of problems in the Mediterranean region and its surroundings the book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in these regions The book appeals to anyone working in the subject area and especially students interested in learning more about new developments in environmental research initiatives in light of the worsening environmental degradation of the Mediterranean and surrounding areas making environmental and resource protection an increasingly important issue that impedes sustainable development and social well being The book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in and around the Mediterranean Sea and by highlighting to decision makers from relevant sectors the environmental considerations that should be integrated into their own activities *Recent Advances In Actinide Science* Iain May,N D Bryan,Rebeca Alvares,2007-10-31 The Special Publications Series is a collection of books produced from the proceedings of international symposia Editors bring together contributions from authorities in the field and the books provide snapshots of the latest developments of that field *Recent Advances in Distillery Waste Management for Environmental Safety* Vineet Kumar,Pankaj Chowdhary,Maulin P Shah,2021-09-21 The safe disposal of distillery waste into the environment as well as its recycling and management has become a hot topic in developing countries including India This gross misconduct creates serious environmental and public health hazards Thus adequate management of waste has become a priority of environmental engineers and biotechnologists for environmental safety and sustainable development Recent Advances in Distillery Waste Management for Environmental Safety covers specific advanced and updated knowledge on various developed individual and or innovative green and emerging plant microbe based technologies uses for the management and recycling of distillery waste in an environmentally friendly and cost effective manner for sustainable development Moreover this book provides comprehensive state of the art information on the physicochemical properties chemical composition and environmental risks associated with distillery waste Furthermore the book also discusses various existing methods and technologies up gradation of existing technologies the advent of newer technologies for the treatment processing and disposal of distillery waste and focus areas for further development This broad and unique coverage allows treatment firms

and regulatory authorities to determine and develop appropriate treatment strategies for site specific problems of distillery waste remediation Features Provides practical solutions for the treatment and recycling of distillery waste illustrated by specific case studies Focuses on recent industry practices and preferences along with newer approaches for wastewater treatment An instructive compilation of treatment approaches including advanced physicochemical and integrated sequential methods Covers biocomposting of sludge and effluent and biodiesel production from distillery waste for recycling and sustainable development Emphasizes the relationship of metagenomics with organometallic compounds of distillery waste Discusses the role of ligninolytic enzymes and bioreactors in distillery wastewater treatment This book serves as an accessible reference to assist engineering consultants industrial waste managers policy makers environmental engineers government implementers researchers scientists and a wide range of professionals responsible for regulating monitoring and designing industrial wastewater treatment techniques who aspire to work on the reclamation recycling and management of distillery waste or wastewater pollutants for environmental safety and sustainable development

Soil Science:

Fundamentals to Recent Advances Amitava Rakshit,S.K Singh,P.C. Abhilash,Asim Biswas,2021-07-30 This compilation has been designed to provide a comprehensive source of theoretical and practical update for scientists working in the broad field of soil science The book explores all possible mechanisms and means to improve nutrient use efficiencies involving developing and testing of nanofertilizers developing consortia based microbial formulations for mobilization of soil nutrients and engineering of nutrient efficient crops using molecular biology and biotechnological tools This is an all inclusive collection of information about soil science This book is of interest to teachers researchers soil scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of soil science quantitative ecology earth sciences GIS and geodetic sciences as well as geologists geomorphologists hydrologists and landscape ecology National and international agriculture and soil scientists policy makers will also find this to be a useful read

Recent Advances in Bioremediation and Phytoremediation Ananya Kuanar,Dattatreya Kar,Alok Prasad Das,Dipalee Bhanja,2025-07-03 This book focuses on a number of recently created and successfully used bio phytoremediation technologies for pollution reduction and control that were not given more thorough discussion in earlier works The earth s crust contains heavy metals naturally as one of its constituents The main cause of the discharge of harmful metals into the soil and aquatic habitats aside from natural sources is man made activity particularly industrialization As a result of various human activities excessive amounts of heavy metals including chromium arsenic lead mercury copper and zinc are released into the environment These metals eventually contaminate agricultural soils and water bodies and have a negative effect on the ecosystem Additionally even at very low concentrations heavy metal poses a dangerous threat to both humans and animals due to its tremendous toxicity Appropriate remediation technology is needed to address the problems caused by toxic heavy metal contamination The technology should be affordable eco friendly and provide long term solutions Such required

properties are offered by biological remediation approaches such as microbial and phytoremediation for the treatment of heavy metal contamination The discussion of biological remediation technologies as a sustainable method involves several techniques involved in the removal of harmful heavy metals

Recent Advances and Issues in Environmental Science

Joan R. Callahan,2000 The changes and significant developments that have accompanied the relatively young field of environmental science are documented in this addition to the Oryx Frontiers of Science Series From major causes for environmental concern to possible solutions Environmental Science presents a balanced and comprehensive view of the collective fields of ecology sociology demography and waste management Special focus is on important environmental events and discoveries that occurred between 1996 and 1999 Additionally related information is presented on key people career opportunities organizations resources and more This is a must have reference tool for understanding a larger view of environmental science

Heavy Metals - Recent Advances

Basim Almayyahi,2023-10-18 Heavy metals can be found everywhere on Earth in water in the food we eat and even inside our bodies It is very important to learn more about heavy metals and how they can improve human life including how to use them and how to avoid harm This book covers several topics on heavy metals to enrich our knowledge about their effects removal and protection

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