



# Earthworms for Solid Waste Management

EDITOR

Satyendra M. Singh



# Solid Waste Management With Earthworms

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## **Solid Waste Management With Earthworms:**

Solid Waste Management with Earthworms Shahid A. Abbasi, E. Ramasami, 2001-01-01 Contrary to popular belief the biggest problem of environment pollution in the Third World countries including India is not caused by industrial emissions or nuclear wastes Rather it is caused by the day to day living of human beings The resulting solid waste sewage and nightsoil pose the most widespread and daunting of all environmental pollution problems This book provides an introduction to the fascinating world of earthworms and tells us how very useful these lowly creatures are The look then zeros on the role of earthworms in handling biodegradable solid wastes We believe the book shall be a very interesting as well as useful to the global expertise Contents Waste and Wealth Earthworms Impact of Earthworms on Soil and Agriculture Vermiculture Present Status of Solid Waste Generation and Disposal Composting and Vermicompositing Vermicomposting Systems R D on Vermitechnology at the Centre for Pollution Control and Energy Technology Some Prominent Experts *Compendium on Solid Waste Management by Vermicomposting* Camp, Dresser & McKee, 1980 *Earthworms for Solid Waste Management*, 2007 One Earth and one Humanity should be our motto as this planet is the only place in the Universe known to sustain life Human activities are progressively reductioning the planet s life supporting capacities by adding million tons of Organic Waster every day into the environment **Earthworm Technology in Organic Waste Management** Kui Huang, Sartaj Ahmad Bhat, Fusheng Li, Vineet Kumar, 2023-10-08 Earthworm Technology in Organic Waste Management Recent Trends and Advances is a suitable contribution to the Waste and The Environment Underlying Burdens And Management Strategies series that will be helpful in classifying and broadly addressing assessments mitigation strategies and the management of organic wastes using earthworms In addition the book provides a summary of the latest findings on emerging pollution related issues their sustainable management and future perspectives The book covers recent trends and developments in organic waste management including the use of earthworms in municipal and industrial waste management the role of earthworms in vermifiltration vermiwash and of vermicompost in crops Finally the book covers the potential of earthworms in the remediation of emerging contaminants This includes antibiotic resistance genes heavy metals pesticides microplastics and other emerging pollutants that are not covered in depth in previously published titles Covers a broad range of information on different aspects of organic waste treatment by earthworm technology Illustrates how earthworms can be used in modeling assessment and management of environmental issues caused by geogenic industrial and emerging pollutants Highlights the reuse and recycling of industrial and municipal organic waste and recovery of value added resources from organic waste **Earthworm Assisted Remediation of Effluents and Wastes** Sartaj Ahmad Bhat, Adarsh Pal Vig, Fusheng Li, Balasubramani Ravindran, 2020-07-01 This book provides updated and comprehensive information on the effective functioning of earthworms used alone or in combination with other biological systems microbes as well as factors affecting the process and performance of vermiremediation under a range of conditions It also compares earthworm assisted

vermifiltration with other conventional biochemical methods Presenting cutting edge research on the earthworm assisted remediation of industrial and municipal effluents and sludges along with its role in solid waste management SWM the book will benefit readers from the research community and industrial sector alike familiarizing them with the latest remediation techniques for wastewater and different types of solid waste      **Solid Waste Management** Subhash Anand,2010 Study conducted in Delhi India      *Earthworms - the Waste Managers* Rajiv Kumar Sinha,2011 Millions of tons of municipal solid wastes MSW comprising a great proportion of food green garden wastes generated from homes and institutions are ending up in the landfills everyday creating extraordinary economic problems for the local government and environmental problems for the society due to increasingly high cost of landfill construction waste disposal and monitoring for emission of powerful greenhouse gases toxic gases and discharge of leachate with serious risk of polluting groundwater Studies indicate that vermi composting of food and garden wastes by waste eater earthworms is more efficient over the conventional aerobic systems This book explores the possibilities of management in this area      **Prospects of Organic Waste Management and the Significance of Earthworms** Katheem Kiyasudeen S,Mahamad Hakimi Ibrahim,Shlrene Quaik,Sultan Ahmed Ismail,2015-12-14 The main aim of this book is to bridge the gap between aerobic and anaerobic waste treatments by concentrating on studies of earthworms In particular vermicomposting is being discussed as well as its properties and applications Other subjects touch on the treatment of palm oil mill effluents the various importance of earthworms its scope and future aspects of earthworm research and the impact of waste management practices on human health      Vermiculture Technology Clive A. Edwards,Norman Q. Arancon,Rhonda L. Sherman,2010-12-20 Exploring the dramatic growth and changes in the field of vermicomposting since 1988 this comprehensive review assesses the advancements made in government funded projects in the U S and UK It discusses outdoor and indoor windrows container systems wedge systems and low labor requirements It also examines fully automated continuous flow vermicomposting reactor systems that can process more than 1000 tons of organic wastes per reactor The book highlights the science and biology behind the use and efficacy of vermicomposting and details the technology of the past present and future      **Earthworms and Vermicomposting** Sohan Singh Walia,Tamanpreet Kaur,2024-01-10 This book explains the lifecycle of earthworms biological features multiplication of worms species of earthworms that are suitable for vermicomposting different sources of vermicompost nutrient recovery and different procedures for making of vermicompost and importance of application of vermicompost in cereal fruit and vegetable crops The tremendous increase in population urbanization industrialization and agricultural production results in accumulation quantities of solid wastes This has created serious problem in the environment In order to dispose this waste safely it should be converted effectively This is achieved by bio composting and vermicomposting of farm urban and agro industrial waste It is being increasingly realized that composting is an environment friendly process convert wide variety of wastes into valuable agricultural inputs Compost is excellent source of humus and

plant nutrients on application of which improve soil biophysical properties and organic matter status of the soil India generates about 350 million tonnes of agricultural waste every year Agricultural wastes include crop residues weeds leaf litter sawdust forest waste and livestock waste Under appropriate conditions worms eat agricultural waste and reduce the volume by 40 to 60% Vermicompost produced by the activity of earthworms is rich in macro and micro nutrients vitamins growth hormones enzymes such as proteases amylases lipase cellulase and chitinase and immobilized microflora This book will assist farmers students and scholars to guide them about lifecycle of earthworms biological features multiplication of worms species of earthworms that are suitable for vermicomposting and different procedures for making of vermicompost This book will also benefit students of agriculture at graduate and post graduate level as students have a designated course on vermicomposting

**Vermiculture** Mr. Rohit Manglik,2024-04-26 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Earthworm Ecology** Clive A. Edwards,2004-03-29 Earthworm Ecology Second Edition updates the most comprehensive work available on earthworm ecology with extensive revisions of the original chapters New chapters analyze the history of earthworm research the importance of earthworms as representatives of soil fauna and how they affect plant growth the effects of the invasion of exotic earthworms into North America and other regions and vermiculture and vermicomposting in Europe This well illustrated expansive study examines the important and often overlooked impact earthworms have on the environment It discusses the impact of climate soil properties predation disease and parasitism and competition upon earthworm ecology

**Phytoremediation of Environmental Pollutants** Ram Chandra,N.K. Dubey,Vineet Kumar,2017-12-14 Phytoremediation aids to augment bioremediation as it uses broad range plants to remediate soil sediment surface water and ground water that have been contaminated with toxic metals organic pesticides and radionuclides This book serves to disseminate detailed up to date knowledge regarding the various aspects of phytoremediation and plant microbe interaction The book highlights process and molecular mechanisms for industrial waste detoxification during phytoremediation in wetland plants role of endophytic bacteria for phytoremediation of environmental pollutants constructed wetland treatment system for treatment and recycling of hazardous wastewater amongst other relevant topics Key Features Focuses on phytoremediation process for different pollutants mainly heavy metal detoxification in the presence of other co pollutants Includes plant soil microbe interactions in phytoremediations and remediation of contaminated water Explores life cycle assessment of industrial waste contaminated site with organic pollutants Discusses hyperaccumulator versus non hyperaccumulator plants for environmental waste management Includes bacterial assisted phytoremediation and siderophore formation in specific environmental conditions

**Organic Agricultural Practices** Kimberly Etingoff,2014-09-06 Organic practices are quickly redefining how agriculture

is done around the world as we come to realize how detrimental conventional agriculture is to local and global environments and economies This book serves as an overview of some of the important topics in organic agriculture The volume is broken into several sections which explore the effects of organic practices on crop productivity the use of biofertilizers plant cultivars and compare the environmental impact with conventional agriculture Also covered are the following topics Organic agriculture as a strategy to combat many of the negative effects of conventional agriculture such as pollution and loss of soil fertility How practices such as the use of biofertilizers can enhance plant growth over the use of chemical fertilizers Vermicompost and the high potential to benefit land in agricultural use Organic practices associations with increased soil fertility increased biodiversity and greenhouse gas sequestration The negative effects of organic agriculture practices such as an increase in nitrogen pollution or pests This easily accessible reference volume offers a comprehensive guide to this rapidly expanding field Edited by an experienced writer with experience in both food systems and agricultural sociology Organic Agricultural Practices Alternatives to Conventional Agricultural Systems is an authoritative and easy to use reference ideal for both researchers in the field and students who wish to gain an overview to this important field of study

**Advances in Waste Management** N. A. Siddiqui, Akmalov Shamshodbek Baxtiyarovich, Abhishek Nandan, Prasenjit Mondal, 2023-04-24 This book comprises papers from the International Conference on Advances and Innovations in Recycling Engineering AIR 2021 It highlights indispensable issues challenges and recommended solutions related to solid waste management and sustainability The contents deal with recommended solutions and the gap between environmental laws related to recycling of waste and environment threat Weighing the global economy loss via compromises on industrial growth versus environment provides another dimension to the study and press on the need for alternative practices The impact on biodiversity conservation and natural resources pollutants is also highlighted This book will be a useful guide for academics researchers and policymakers working in the fields of waste management *Sustainable Waste Management and Disposal Methods* Mr. Rohit Manglik, 2024-03-17 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Enzymes for Pollutant Degradation** Sikandar I. Mulla, R. N. Bharagava, 2022-04-21 This book is about different Enzymes from various sources that play an important role in the degradation of an array of pollutants with simultaneous generation of value added products This is an Edited Book which deals a comprehensive knowledge on the role of different microorganisms their enzymes in the degradation of pollutants wastewater treatment with simultaneous production of value added products It also deals the current state perspectives and various challenges associated with the microbial enzymatic degradation of environmental pollutants This book will provide a profound knowledge on the importance of microorganisms their enzymes in the degradation of pollutants like pesticides antibiotics toxic hazardous chemicals

endocrine disrupting chemicals compounds with production of value added products like bioplastics for the sustainable development of society It covers various existing wastewater treatment approaches using microorganisms alone and or in combination of other methods with their merits demerits and future prospects      *Environmental Microbiology and Biotechnology* D. P. Singh,2004 This Book Provides General Information In The Area Of Environmental Science Microbiology And Biotechnology Keeping In View The Recent Advances In These Disciplines This Book Aims To Focus On The Application Of Microbiology And Biotechnology In Tackling The Environmental Issues Viz Role Of Microbes In Waste Management Bioremediation Health Hygiene Biological Control And Plant Productivity Biofertilizers Vermiculture And Biocomposting This Book Offers An Exhaustive And Authentic Account Of Integral Relationship Of Microbiology Biotechnology With Environmental Science Students From All These Disciplines Would Find This Book As An Authentic Source Of Information And Would Be Immensely Benefited This Book Includes The Matter Required By Both Under Graduate And Post Graduate Students Including Researchers Who Are Genuinely Interested In Knowing The Applied Aspect Of Microbiology Biotechnology Particularly With Reference To Environmental Issues Since Every Chapter Starts With A Basic Concept Of Problems And Issues It Easily Enables The Readers To Comprehend The Subject In A Lucid Manner      Prospects in Bioscience: Addressing the Issues Abdulhameed Sabu,Anu Augustine,2013-01-11 The book entitled Prospects in Bioscience Addressing the issues is a collection of selected research papers presented at the International Conference on Advances in Biological Sciences ICABS organized by the Department of Biotechnology and Microbiology and the Inter University Centre for Bioscience Kannur University Kerala India ICABS witnessed a unique spectrum of Scientific Programmes on the most recent and exciting developments in modern biology The conference displayed the numerous breakthroughs and significant developments in the important areas of modern biology and their relevance to the welfare of global society The Book contains 50 well written chapters each one discussing scientifically organized findings of original research work done in reputed laboratories Needless to say they deal with advances in various disciplines of modern biology including Cell and Molecular Biology Structural Biology Industrial and Environmental Biotechnology Food and Agricultural Biotechnology and Medical Biotechnology As the title rightly indicates the chapters project the prospects in the respective areas and the issues in them Specific issues discussed in the book includes development of transgenic plants bioremediation of toxic industrial effluents biotransformation for novel antibiotics biofertilizer development molecular drug designing and structure elucidation molecular identification of pathogens production of anti microbials biocontrol agents and bioactive molecules cancer biology plant breeding and hybrid seed production etc The book with its contents spreading across the vast arena of modern biology is expected to cater to the need of researchers technologists and students      *Biology of Composts* Mukesh K. Meghvansi,Ajit Varma,2020-04-09 This book highlights the latest findings on fundamental aspects of composting the interaction of various microorganisms and the underlying mechanisms In addition to addressing modern tools and techniques used for composting

research it provides an overview of potential composting applications in both agriculture and environmental reclamation Composting is the process of organic waste decomposition mediated by microorganisms The end product is called compost and can be used as a supplement to improve soil fertility As the municipal waste generated in most developing countries contains a substantial amount of organic matter suitable for composting this technology offers a win win opportunity for stakeholders in terms of disposing of organic waste and providing organic fertilizers for agriculture In addition using compost reduces the dependency on harmful chemical fertilizers and represents a sustainable and environmentally friendly alternative



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