



## Food Waste Management Project Digital Books



ACET-Global Organic Food Waste Management

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*Notes: the digital books listed below are just for recommendation reading and you can choose your best convenience ways to purchase.*

**Organic Waste Recycling: Technology, Management and Sustainability - 4th edition**

<https://www.iwapublishing.com/books/9781780408200/organic-waste-recycling-technology-management-and-sustainability-4th-edition>

This fourth edition of Organic Waste Recycling is fully updated with new material to create a comprehensive and accessible textbook:

New chapter on constructed wetlands for wastewater and faecal sludge stabilization.

- New sections on: waste recycling vs. climate change and water; faecal sludge and its characteristics; hydrothermal carbonization technology; up-to-date environmental criteria and legislation and environmental risk assessment.
- New case studies with emphasis on practices in both developed and developing countries have been included, along with more exercises at the end of chapters to help the readers understand the technical principles and their application.
- Novel concepts and strategies of waste management are presented.
- Up-to-date research findings and innovative technologies of waste recycling program are provided.

This textbook is intended for undergraduate and graduate students majoring in environmental sciences and engineering as well as researchers, professionals and policy makers who conduct research and practices in the related fields. It is essential reading for experts in environmental science and engineering and sustainable waste reuse and recycling in both developed and developing countries.

## **Organic Waste Recycling**

<https://iwaponline.com/ebooks/book/68/Organic-Waste-Recycling>

This book covers the principles and practices of technologies for the control of pollution originating from organic wastes (e.g. human faeces and urine, wastewater, solid wastes, animal manure and agro-industrial wastes) and the recycling of these organic wastes into valuable products such as fertilizer, biofuels, algal and fish protein and irrigated crops.

Each recycling technology is described with respect to:

- Objectives;
- Benefits and limitations;
- Environmental requirements;
- Design criteria of the process;
- Use of the recycled products; and
- Public health aspects.

Organic Waste Recycling includes case studies, examples, exercises and questions. This book is intended as a text or reference book for third or fourth year undergraduate students interested in environmental science, engineering and management, and graduate students working in the environment-related disciplines. It also serves as a reference text for policy makers, planners and professionals working in the environment and sustainable development fields.

## **Food Waste Recovery: Processing Technologies and Industrial Techniques**

<https://www.elsevier.com/books/food-waste-recovery/galanakis/978-0-12-800351-0>

Food Waste Recovery: Processing Technologies and Industrial Techniques acts as a guide to recover valuable components of food by-products and recycle them inside the food chain, in an economic and sustainable way. The book investigates all the relevant recovery issues and compares different techniques to help you advance your research and develop new applications. Strong coverage of the different technologies is included, while keeping a balance between the characteristics of current conventional and emerging technologies. This is an essential reference for research outcomes.

## **Sustainable Food Waste-to-Energy Systems**

<https://www.elsevier.com/books/sustainable-food-waste-to-energy-systems/trabold/978-0-12-811157-4>

Sustainable Food Waste-to-Energy Systems assesses the utilization of food waste in sustainable energy conversion systems. It explores all sources of waste generated in the food supply chain (downstream from agriculture), with coverage of industrial, commercial, institutional and residential sources. It provides a detailed analysis of the conventional pathways for food waste disposal and utilization, including composting, incineration, landfilling and wastewater treatment. Next, users will find valuable sections on the chemical, biochemical and thermochemical waste-to-energy conversion processes applicable for food waste and an assessment of commercially available sustainable food waste-to-energy conversion technologies. Sustainability aspects, including consideration of environmental, economic and social impacts are also explored.

## **Zero Waste: Management Practices for Environmental Sustainability Management Practices for Environmental Sustainability**

<https://www.routledge.com/Zero-Waste-Management-Practices-for-Environmental-Sustainability-Management/Rathoure/p/book/9780367180393>

Zero Waste: Management Practices for Environmental Sustainability presents approaches for resource management centered on reducing waste and reusing and recycling materials. It aims to save energy by reducing energy consumption associated with extracting, processing, and transporting raw materials and waste, and also to reduce and eventually eliminate the need for landfills and incinerators. This book presents the various principles, methods, and tools that can be used to address different issues in the areas of industrial waste reduction and sustainability. It examines how to eliminate waste at the source and at all points of a supply chain, and how to shift from the current one-way linear resource model to a sustainable "closed-loop" system.

- Proposes strategies for businesses to reduce and reuse waste with a goal of reaching a zero waste status.
- Focuses on how mitigating waste and promoting recycling can save vast amounts of energy.
- Explains how the zero waste approach would be a key measure to ensure environmental sustainability and help to offset global climate change.

### **Innovation Strategies in Environmental Science**

<https://www.elsevier.com/books/innovation-strategies-in-environmental-science/galanakis/978-0-12-817382-4>

Innovation Strategies in Environmental Science introduces and examines economically viable innovations to optimize performance and sustainability. By exploring short and long-term strategies for the development of networks and platform development, along with suggestions for open innovation, chapters discuss sustainable development ideas in key areas such as urban management/eco-design and conclude with case studies of end-user-inclusive strategies for the water supply sector. This book is an important resource for environmental and sustainability scientists interested in introducing innovative practices into their work to minimize environmental impacts.

### **Saving Food: Production, Supply Chain, Food Waste and Food Consumption**

<https://www.elsevier.com/books/saving-food/galanakis/978-0-12-815357-4>

Saving Food: Production, Supply Chain, Food Waste and Food Consumption presents the latest developments on food loss and waste. Emphasis is placed on global issues, the environmental impacts of food consumption and wasted food, wasted nutrients, raising awareness via collaborative networks and actions, the effect of food governance and policy in food losses, promotion of sustainable food consumption, food redistribution, optimizing agricultural practices, the concept of zero waste, food security and sustainable land management, optimizing food supply and cold chains, food safety in supply chain management, non-thermal food processing/preservation technologies, food waste prevention/reduction, food waste valorization and recovery.

### **Innovations in Traditional Foods**

<https://www.elsevier.com/books/innovations-in-traditional-foods/galanakis/978-0-12-814887-7>

Innovations in Traditional Foods addresses the most relevant topics of traditional foods while placing emphasis on the introduction of innovations and consumer preferences. Certain food categories, such as fruits, grains, nuts, seeds, grains and legumes, vegetables, mushrooms, roots and tubers, table olives and olive oil, wine, fermented foods and beverages, fish, meat, milk and dairy products are addressed. Intended for food scientists, technologists, engineers and chemists working in food science, product developers, SMEs, researchers, academics and professionals, this book provides a reference supporting technological advances, product development improvements and potential positioning in the traditional food market.

### **Innovation Strategies in the Food Industry**

<https://www.elsevier.com/books/innovation-strategies-in-the-food-industry/galanakis/978-0-12-803751-5>

Innovation Strategies in the Food Industry: Tools for Implementation is an indispensable resource for the food industry to introduce innovations in the market, stand out from the competition and satisfy consumer demands. This reference reports the most trend advances of the food science, while providing insights and ideas to overcome limitations for their actual implementation in the industry. Innovation Strategies in the Food Industry: Tools for Implementation fills the gap between strategy developers and technical R&D associates by interpreting the technological adequacy of innovative techniques with the reaction of related consumers. It deals with the interaction of academia and industry, describing innovation and long term R&D strategies to overcome bottlenecks during know-how transfer between these two sectors.

### **Handbook of Coffee Processing By-Products**

<https://www.elsevier.com/books/handbook-of-coffee-processing-by-products/galanakis/978-0-12-811290-8>

Handbook of Coffee Processing By-Products: Sustainable Applications presents alternative and sustainable solutions for coffee processing by-products and specifies their industrial potential, both as a source for the recovery of bioactive compounds and their reutilization in the pharmaceutical, biotechnological, food, biotechnology, and cosmetic industries, also covering environmental and agronomic applications. This book addresses key topics specific to sustainable management in the coffee industry, placing an emphasis on integrated solutions for the valorization and upgrade of coffee processing by-products, biorefinery, and different techniques for the separation, extraction, recovery and formulation of polyphenols.

### **Sustainable Food Systems from Agriculture to Industry**

<https://www.elsevier.com/books/sustainable-food-systems-from-agriculture-to-industry/galanakis/978-0-12-811935-8>

Sustainable Food Systems from Agriculture to Industry: Improving Production and Processing addresses the principle that food supply needs of the present must be met without compromising the ability of future generations to meet their needs. Responding to sustainability goals requires maximum utilization of all raw materials produced and integration of activities throughout all production-to-consumption stages. This book covers production stage activities to reduce postharvest losses and increase use of by-products streams (waste), food manufacturing and beyond,

presenting insights to ensure energy, water and other resources are used efficiently and environmental impacts are minimized.

The book presents the latest research and advancements in efficient, cost-effective, and environmentally friendly food production and ways they can be implemented within the food industry. Filling the knowledge gap between understanding and applying these advancements, this team of expert authors from around the globe offer both academic and industry perspectives and a real-world view of the challenges and potential solutions that exist for feeding the world in the future. The book will guide industry professionals and researchers in ways to improve the efficiency and sustainability of food systems.

### **Prospects of Organic Waste Management and the Significance of Earthworms**

<https://www.springer.com/gp/book/9783319247069>

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.