



**energies**



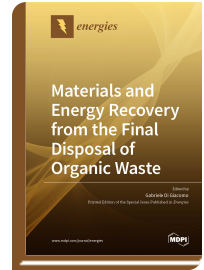
*Special Issue Reprint*

## **Materials and Energy Recovery from the Final Disposal of Organic Waste**

[www.mdpi.com/books/reprint/4816](http://www.mdpi.com/books/reprint/4816)

Edited by  
Gabriele Di Giacomo

ISBN 978-3-0365-2852-6 (Hardback)  
ISBN 978-3-0365-2853-3 (PDF)



The book is a collection of scientific contributions that highlight how scientific and technological evolution can change the paradigm of organic waste as an environmental problem into a renewable resource of energy and materials. Numerous researchers and research institutions that are located in different countries with varying levels of socio-economic development and other traditions were involved in this work. The materials that were considered include household waste, including human excreta and those generated by typical urban activities. The organic waste was derived from the agro-industrial sector and from packaging labelled as being biodegradable. Problems related to the detoxification of aquatic plants are discussed and the use of these plants for their ability to produce biomethane is documented simultaneously. An organic waste management strategy that was developed in the Albania context is also presented and discussed. Anaerobic digestion is one of the most widely studied technologies in this field, and this process is responsible for the production of biogas or methane, even in fossil resource-rich countries. On the other hand, aerobic fermentation is considered for the degradation of very toxic organic substances that can be dissolved into aqueous solutions that aid in the recovery of valuable materials from electrical and electronic equipment that do not have further use. There are a wide range of arguments and experiences that support the use of waste as a resource through disposal with simultaneous energy enhancement and the production of new materials, thus limiting the use of non-renewable resources for more sustainable development for the benefit of future generations.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/4816](http://www.mdpi.com/books/reprint/4816)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



### **Open Access**

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



### **Author Focus**

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



### **High Quality & Rapid Publication**

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



### **High Visibility**

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



### **Print on Demand and Multiple Formats**

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.