

Topical Collection

Waste Utilization and Resource Recovery

Message from the Collection Editors

With the rapid development of the economy and population growth, a large amount of solid waste has been generated from domestic, industrial, and agricultural activities over the last few decades. Improper treatment and disposal of solid waste have adverse impacts on the ecosystem and human health. Improving our fundamental understanding of various waste disposal processes will help alleviate environmental pollution and establish efficient waste management. In particular, there has been an increasing interest in the use of waste as a resource for energy and nutrient recovery, value-added product generation, and pollution mitigation. Such resource recovery is an effective way to reduce waste and improve sustainability in operation. In waste utilization, it is also necessary to make systematic considerations for a number of critical environmental and technical factors, as well as their interrelationships and the related policy implications.

Collection Editors

Dr. Chunjiang An

Department of Building, Civil and Environmental Engineering,
Concordia University, Montreal, QC H3G 1M8, Canada

Dr. Xiujuan Chen

Department of Civil Engineering, The University of Texas, Arlington, TX
76019, USA



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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