

Special Issue

Sustainable Thermochemical Conversion of Organic Solid Waste

Message from the Guest Editor

Organic solid waste (OSW) refers to solid waste containing organic matter, e.g., domestic waste, agricultural waste, industrial waste, etc. Traditional disposal methods include landfill and incineration, but these methods have problems with environmental pollution and resource waste. There will also be a lot of excess carbon dioxide emissions, which will have a huge impact on global warming and climate change. The organic solid waste thermochemical conversion process is a technology that converts OSW into renewable energy or high-value chemicals through a thermochemical reaction. Through the application of high temperatures and catalysts, the OSW is decomposed into gas, liquid, and solid products to achieve efficient utilization of resources and harmless treatment of waste. The utilization of OSW not only contributes to reducing pollution but also provides an alternative way of generating bio-energy and environmentally friendly products. This Special Issue aims to attract works of scientific interest to promote the conversion and utilization of OSW.

Guest Editor

Dr. Changsen Zhang

School of Ecology and Environment, Zhengzhou University, Zhengzhou 450001, China

Deadline for manuscript submissions

closed (30 June 2025)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/208378

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

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)