



Recycling Biomass for Agriculture and Bioenergy Production

Guest Editors:

Dr. Md. Abdul Kader

School of Agriculture, Geography,
Environment, Oceans and
Natural Sciences, University of
South Pacific, Samoa campus,
Apia, Samoa

Prof. Dr. Shamim Mia

Department of Agronomy,
Patuakhali Science and
Technology University,
Patuakhali, Bangladesh

Dr. Zakaria Solaiman

UWA School of Agriculture and
Environment, University of
Western Australia, Perth, WA
6009, Australia

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editors

Biomass is a valuable organic resource that originates from plants and animals. All sorts of biomass have a high concentration of organic carbon, making it suitable for soil amendments, particularly for soil fertility restoration, soil erosion control, soil moisture conservation, carbon sequestration, and many more applications. In addition, biomass also contains all the essential plant nutrients. Therefore, some biomass has been historically used as biofertilizers from the beginning of agricultural activities when chemical fertilizer was not invented. Modern agriculture highly recommends using organic and inorganic sources of plant nutrients for crop production to maintain soil fertility, crop productivity, and agro-ecosystem sustainably.

Biomass produced by plant through photosynthesis process contains stored chemical energy from the sun. Therefore, biomass has been used as a source of energy throughout the world for long. There is a vast potential to use biomass as feedstock for bioenergy production for transportation purposes and for electricity generation to avoid carbon dioxide emissions from fossil fuel use.





an Open Access Journal by MDPI

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

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. *Sustainability* publishes original research articles, review 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.

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, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)