



Waste Recycling and Circular Economy: From Trash to Treasure

Guest Editors:

Dr. Harshit Mahandra

Hydrometallurgy and Environment Group, The Robert M. Buchan Department of Mining, Queen's University, Goodwin Hall, 25 Union St., Kingston, ON K7L 3N6, Canada

Dr. Farzaneh Sadri

Smith Engineering, Robert M. Buchan Department of Mining Engineering, Queen's University, Goodwin Hall, 25 Union Street, Kingston, ON K7L 3N6, Canada

Dr. Monu Malik

Department of Chemical Engineering and Applied Chemistry, University of Toronto, 200 College Street, Toronto, ON M5S 3E5, Canada

Deadline for manuscript submissions:

closed (30 April 2024)



mdpi.com/si/129124

Message from the Guest Editors

Dear Colleagues,

In recent decades, the development of science and technology has made human life easier and more comfortable, but has also built up environmental and economic pressure. It has increased the consumption of primary resources due to the high market demand and huge generation of waste during the production of products, as well as at the user end.

This Special Issue invites both research and review articles focused on the broad range of waste recycling options and their conversion into useful products using sustainable technologies. Possible themes of interest include, but are not limited to the following:

- Sustainable processes for different kinds of waste recycling;
- Novel methods for the separation of critical metals from secondary resources;
- Complexity, challenges, and risks in a circular economy;
- Circular economy models for waste recycling and their impact;
- Application of biological processes to recover values from wastes ;
- Food waste treatment: biogas production and bioenergy sustainability.

Dr. Harshit Mahandra, Dr. Farzaneh Sadri and Dr. Monu Malik

Guest Editors

Special Issue



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