

Special Issue

Sustainable Waste Material Recovery Technologies

Message from the Guest Editors

This Special Issue will focus on research and case studies that examine waste material recovery technologies not just from an economic point of view but also regarding the reduction of GHG emissions that occur when recovery materials are diverted from landfills, processed, and reintroduced into the production cycle. The recovery process typically requires less energy compared to manufacturing products from virgin materials, thus reducing GHG emissions. This Special Issue will cover a deep and meaningful convergence between waste reduction, reuse, and recovery. In addition, with regard to sustainability, wastewater produced by industries may be used for biohythane production, a gaseous mixture of biohydrogen and biomethane that offers superior characteristics over other biofuels. Potential topics include the following:

- Biochar production and applications;
- Innovative waste recovery technologies for low-carbon energy/resource recovery;
- Carbon footprint analysis for organization and GHG reduction;
- Life cycle assessment (LCA) and carbon footprint of products.

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