Special Issue

Advances in Thermal Conversion: Integrating and Intensifying Waste/Biomass-to-Energy Processes

Message from the Guest Editors

This Special Issue focuses on the innovative and emerging field of waste/biomass-to-energy processes, with a particular emphasis on process integration and intensification through thermal conversion methods. This Issue will explore the latest advancements in thermal technologies such as torrefaction, pyrolysis, gasification, and combustion, as well as their role in efficiently converting waste and biomass into energy, including carbon capture and storage (BECCS). The Issue will delve into the optimisation of these processes, addressing challenges related to efficiency, scalability, and environmental impact. It will also highlight the integration of these processes into existing industrial frameworks, examining how they can contribute to sustainable energy production and waste management. Contributions are invited from research into technological developments, process design and optimisation, life cycle analysis, economic feasibility, and environmental sustainability in the field of waste/biomass-to-energy processes.

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Editor-in-Chief

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