

## Special Issue

# Thermal Conversion Processes of Biomass for Sustainable Utilization in Energy, Chemical, and Metallurgical Industries

### Message from the Guest Editors

Modern challenges in the energy, chemical, and metallurgical industries related to the environment require the development of sustainable methods of energy production and the efficient utilization of renewable resources. This Special Issue focuses on thermal conversion processes such as torrefaction, pyrolysis, gasification, combustion, and hydrothermal methods used to convert biomass and other waste into clean energy and valuable products. The aim of this Special Issue is to bring together state-of-the-art research and technological solutions aimed at improving the efficiency, environmental safety, and sustainability of energy processes. Special attention is focused on the integration of the thermal processes with socio-economic and environmental aspects of sustainable development. New approaches to life cycle assessment, the application of digital and intelligent process control systems, and policy and regulation in this area are also addressed.

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### Guest Editors

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### Deadline for manuscript submissions

31 July 2026



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### Editor-in-Chief

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