

Special Issue

Bioenergy, Green Chemistry and Biorefinery: Challenges and Perspectives on Circular Economy and Sustainability

Message from the Guest Editors

This Special Issue will focus on several areas: bioenergy, green chemistry, and biorefining. Topics will include biomass conversion, the development and application of green chemical products, waste-to-energy processes, thermochemical conversion processes, biomaterials, and the life cycle assessment of chemical products and processes. Additionally, it will address waste biorefineries and the circular bioeconomy, which involves bioprocesses, the utilization of waste for biopolymers' and bio-lipids' production, wastewater treatment processes, and the integrated use of biowaste, biofuels, and renewable feedstocks.

- biomass, biofuels, and biomaterials
- circular economy, biorefinery, and biowaste treatment technologies
- thermal engineering and applied thermodynamics
- environmental pollution and pollutant emissions
- renewable technologies
- numerical simulation
- energy utilization
- carbon capture, utilization, and storage
- urban waste management

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