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Innovative Technologies for Biomass Valorization in Sustainable Energy System

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Message from the Guest Editor

The global commitment to realizing a sustainable net-zero society is no longer newsworthy as nations recognize issues stemming from environmental pollution. While biomass-based technologies have potential to address, both conventional and non-conventional biomass-based systems generate substantial amounts of byproducts or waste materials that could be further valorized to maximize the overall economic outlook. Thus, new innovations advancing biomass utilization pathways are highly sought after as preemptive actions not just to address potential environmental risks, but also to seize opportunities arising in an era demanding sustainable biomass-based solutions.

In this Special Issue of *Energies*, we aim to gather novel research outcomes in the field of biomass valorization. A non-exclusive list of topics that align with the Special Issue encompasses:

- Algae-based solutions for waste remediation
- Biomass (including agroforestry waste) valorization
- New applications of byproducts generated from biomass conversion processes
- Techno-economic analysis of different biomass conversion pathways
- Industry survey of biomass wastes that could provide new valorization opportunities



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Special Issue



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Message from the Editor-in-Chief

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