

Special Issue

Innovative Technologies for Biomass Valorization in Sustainable Energy System

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

Guest Editor

Dr. Jin-Ho Yun

Korea Research Institute of Bioscience and Biotechnology, Daejeon 34141, Republic of Korea

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Energies
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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