

Special Issue

The Sustainability of Biomass and Bioenergy in a Future Bioeconomy

Message from the Guest Editors

In this Special Issue, original research articles, reviews, communications, and concept papers are welcome, and research areas may include, but are not limited to, the following:

- Innovations in conversion technologies (thermochemical, biochemical, electrochemical, and photobiological) for advanced biofuels and hydrogen production;
- Policy instruments and market mechanisms promoting sustainable biomass use;
- Life-cycle assessment (LCA) and sustainability metrics of biomass, bioenergy, advanced biofuels, and biohydrogen systems;
- Circular bioeconomy models integrating energy, materials, and waste valorization;
- Carbon neutrality, carbon accounting, and climate mitigation potentials of biomass-based and hydrogen-based energy systems;
- Integration of advanced biofuels, bioenergy, and biohydrogen into circular bioeconomy models for energy, materials, and waste valorization;
- Socioeconomic impacts and governance frameworks for sustainable bioenergy;
- Regional and global perspectives on biomass supply chains and sustainability trade-off.

Guest Editors

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Prof. Dr. Astrid Altamar Consuegra

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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