

Special Issue

Sustainable Valorization of Biomass for Clean Energy and High-Value Products

Message from the Guest Editor

The sustainable valorization of biomass offers a promising route to achieving carbon neutrality, advancing the bioeconomy, and reducing our dependency on fossil resources. This Special Issue, *Sustainable Valorization of Biomass for Clean Energy and High-Value Products*, aims to present recent developments in environmentally friendly and economically viable approaches for converting biomass into clean energy and high-value bio-based products. The themes of the Special Issue include but are not limited to:

- biorefinery
- biomass valorization
- bioenergy
- renewable energy
- bio-based materials
- biochemicals
- biomass conversion
- green solvents

We welcome contributions from diverse fields focusing on innovative technologies for efficient biomass fractionation, conversion, and upgrading, including green solvent systems, catalytic pathways, and advanced pretreatment techniques. The key topics will include the production of biofuels, biochemicals, and functional materials derived from sustainable biomass sources such as lignocellulosic feedstocks, agricultural and forestry residues, and organic waste.

Guest Editor

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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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