Special Issue

Biomass-Based Green Technologies for Modern Bioeconomy

Message from the Guest Editors

Current biomass-related technologies include feedstock design, biorefining, manufacturing, waste handling, waste valorization, etc., which have generated green and sustainable products of bio-energies, biofuels, chemicals, biomaterials, and multifunctional devices. Meanwhile, the field still faces challenges in implementing biorefinery and industrializing these bioproducts because of the difficulties in reaching product quality, cost-effectiveness, processing optimization, and net carbon footprint. In this Special Issue, we aim to collect recent advancements in green technologies that use biomass as the feedstock to achieve a modern bioeconomy. The covered topics include:

- biomass feedstock design and development
- biofuels and bioenergy
- biomass-derived advanced multifunctional materials and devices
- biomass-derived nanomaterials like nanocellulose and nanolignin
- cellulose, hemicellulose, and lignin-derived chemicals and products
- biomass-derived plastic alternatives
- technology, processing, devices, and equipment developments for efficient biomass conversion
- life cycle, economic, and sustainability assessment of biomass-derived products

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Message from the Editor-in-Chief

Clean Technologies (ISSN 2571-8797) is an international, open access journal of novel scientific research on technology development aimed at reducing the environmental impact of human activities. *Clean Technologies* publishes reviews, regular research papers, communications and short notes which show a significant advance in the development of sustainable technology that reduces energy consumption, environmental pollution and/or the use of water and nonrenewable resources. Our aim is to encourage scientists to publish their experimental and theoretical research in detail as open access, serving a trustable base of advance for the scientific community.

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