

## Special Issue

# Advances in Bioenergy and Sustainable Biomaterial Production Processes

### Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome on research areas that may include (but are not limited to) the following:

- **Biomass-based hydrogen and biofuels:** Raw materials such as agriculture waste, algae, etc., are increasingly being used.
- **Waste to energy:** Utilizing agricultural and industrial waste as feedstock for biofuel production is gaining traction.
- **Biomaterial production:** Utilizing biomass as feedstock for biomaterial production is gaining popularity.
- **Genetically engineered processes:** The introduction of genetically modified crops designed specifically for bioenergy and sustainable biomaterial production is revolutionizing the industry.
- **Nanotech catalysts for renewable energy:** The use of nanoparticle catalysts can enhance the reaction rates and reduce the energy costs associated with biofuel production, making it more economically viable.
- **Bioeconomy:** Emerging economies are leading the charge in bioenergy and sustainable biomaterial demand, implementing robust policies to boost the bioeconomy.

### Guest Editors

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### Deadline for manuscript submissions

30 November 2025



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### Message from the Editor-in-Chief

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