

## Special Issue

# Advances in Bioenergy and Bioproducts Innovation

### Message from the Guest Editor

This Special Issue highlights breakthroughs in bioenergy and bioproducts, emphasizing scalable technologies, sustainability metrics, and socio-economic strategies. Topics of interest for publication include, but are not limited to, the following:

- Next-Generation Biofuels: Advances in algal biofuel, lignocellulosic ethanol, and waste-derived biodiesel.
- Circular Biorefineries: Integrated systems for co-producing energy, chemicals, and materials.
- Carbon-Negative Technologies: BECCS, biochar, and microbial carbon sequestration.
- AI-Driven Optimization: Machine learning for biomass conversion and supply chain efficiency.
- Sustainable Feedstock Innovation: Low-impact crops, agro-residue valorization, and algae cultivation.
- Waste-to-Energy Solutions: The anaerobic digestion, gasification, and pyrolysis of organic/industrial waste.
- Bio-Based Materials: Bioplastics, green chemicals, and lignin valorization.
- Policy and Market Strategies: Incentives, lifecycle regulations, and global bioeconomy frameworks.

### Guest Editor

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### Deadline for manuscript submissions

30 September 2025



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## About the Journal

### Message from the Editor-in-Chief

*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.

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