

Special Issue

Energy Sustainability and Biofuels

Message from the Guest Editors

We invite research and review articles on biofuel production across four categories: (1) biomass-to-fuel transformation using corn, wheat, sugarcane for bioethanol and biodiesel; (2) cellulosic biomass from perennial grasses for bioethanol and methanol; (3) crops and algae as sustainable options; (4) innovative methodologies including biogas and bioalcohols. Biofuels represent eco-friendly fossil fuel alternatives that reduce greenhouse gas emissions, though challenges persist in feedstock availability, environmental impact, and food competition. This Issue welcomes high-quality papers on bioenergy production using biomass for sustainable development, focusing on biogas, biodiesel, bioalcohols, and biohydrogen, particularly novel sustainability applications. Topics include bioengineering improvements, fermentation, sugar hydrolysis; circular waste management in agriculture/aquaculture; biorefinery development with minimal waste; waste biomass composting; cleaner production technologies; biocatalyst systems; new biomaterials; sustainable/green chemistry; biological processes; marine natural products; bioeconomics; circular bioeconomy of biofuel production.

Guest Editors

Prof. Dr. Facundo Joaquín Márquez Rocha
Prof. Dr. Miguel Antonio Domínguez Crespo
Dr. Aidé Minerva Torres Huerta

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About the Journal

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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