

*Editorial*

# Journal of Renewable Fuels: Advancing the Science and Innovation of Sustainable Energy

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## 1. Introduction

We are pleased to introduce the *Journal of Renewable Fuels (JRF)*, a new peer-reviewed journal dedicated to advancing research and innovation in renewable and sustainable fuels. The establishment of this journal comes at a critical time when the global community is intensifying efforts to reduce dependence on fossil fuels, mitigate greenhouse gas emissions, and meet ambitious net-zero targets. Over the past two decades, renewable fuels such as bioethanol, biodiesel, biogas, hydrogen, and synthetic fuels have gained prominence as viable alternatives to conventional energy sources [1,2]. These advances have been driven by progress in feedstock development, conversion technologies, system integration, and policy frameworks [3]. However, the complexity and interdisciplinary nature of renewable fuels research demand a dedicated platform that brings together work across science, engineering, economics, and policy. *JRF* seeks to address this need.

## 2. Aim and Scope

The journal covers the full spectrum of renewable fuel research, including but not limited to:

- Biofuels and advanced biofuels (production, upgrading, and applications)
- Hydrogen, fuel cells, and emerging renewable fuel technologies
- Waste-to-energy processes such as pyrolysis, gasification, and hydrothermal conversion
- Renewable jet and marine fuels
- Catalysts, adsorbents, and novel materials for fuel production and upgrading
- Environmental and sustainability assessments, including life cycle analysis and techno-economic evaluations
- Policy, regulation, and strategies for accelerating renewable fuel deployment

*JRF* publishes original research articles, reviews, short communications, and perspectives. By providing a broad yet focused scope, the journal aims to capture advances from laboratory scale to industrial applications.

## 3. Outlook

Our objective is to establish *Journal of Renewable Fuels* as a reputable platform for disseminating high-quality, impactful research that informs both academic development and practical implementation. We anticipate that the journal will serve as a reference point for scholars, engineers, and decision-makers engaged in advancing the transition to sustainable energy systems. We invite contributions from the global research community and look forward to collaborations that will shape the journal into a leading outlet in the field of renewable fuels.



## Conflicts of Interest

Given their editorial roles, T. M. Indra Mahlia (Editor) and Bidattul Syirat Zainal (Assistant Editor) had no involvement in the peer review of this paper and had no access to information regarding its peer-review process. Full responsibility for the editorial process of this paper was delegated to another editor of the journal.

## Use of AI and AI-Assisted Technologies

During the preparation of this work, the author(s) used ChatGPT and Perplexity to assist in obtaining factual research information and fact-checking. After using this tool/service, the author(s) reviewed and edited the content as needed and take(s) full responsibility for the content of the published article.

## References

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