

Special Issue

Advances in Biomass Fuel: Production, Upgrading, and Applications

Message from the Guest Editor

We welcome original research articles and reviews addressing, but not limited to, the following themes: Feedstock Innovation: Selection, pretreatment, and sustainability of biomass resources (e.g., agricultural residues, algae, waste). Conversion Technologies: Advances in pyrolysis, hydrothermal liquefaction, transesterification, and hybrid processes. Upgrading Strategies: Catalytic hydrotreatment, emulsification, and novel pathways to improve bio-oil quality (e.g., stability, heating value). Fuel Characterization and Applications: Physicochemical properties, combustion behavior, and engine performance of bio-oils. Sustainability and Scalability: Lifecycle assessments (LCA), techno-economic analyses, and policy drivers for commercialization. Environmental Impacts: Emissions reduction, carbon footprint, and circular economy integration. This Issue aims to bridge fundamental research with real-world applications, highlighting scalable solutions and cross-disciplinary innovations. Submissions addressing efficiency optimization, system integration, or market-ready technologies are particularly encouraged.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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