

## Special Issue

# Sustainable Biofuels from Vegetable Oils: Innovations and Challenges

### Message from the Guest Editors

The purpose of this Special Issue is to present and disseminate the latest advances in the use of biofuels derived from vegetable oils in diesel engines, with particular emphasis on engine efficiency and environmental friendliness. We particularly encourage submissions that bridge fundamental research with practical applications, as well as interdisciplinary studies combining fuel chemistry, engine technology, and environmental analysis. Contributions addressing scalability, lifecycle assessment, and compliance with emerging regulatory frameworks are also highly welcomed. This Special Issue will cover, but is not limited to, the following:

- Modification of psychochemical properties of the vegetable oils for use as biofuel by different modifiers
- Parameters of the biofuel combustion process
- Biofuel exhaust emission level
- Modeling of energy use from biofuel-fueled vehicles
- Different applications of biofuels
- Performance of diesel engines powered by biofuels
- Techno-economic aspect of biofuels application

In addition, we invite authors to explore novel feedstocks, hybrid fuel systems, and the role of biofuels in the broader context of energy transition and decarbonization strategies.

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### Guest Editors

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### Deadline for manuscript submissions

20 October 2026



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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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### Editor-in-Chief

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