



## Advances in New and Renewable Fuel for Internal Combustion Engines

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### Message from the Guest Editors

Recently, the search for new and renewable sources of fuel has intensified. This is after the agreement of many countries and institutions to take steps to preserve the environment by reducing emissions and reducing fossil fuel consumption. As such, work has been performed to raise the efficiency of combustion systems' performance, especially in the application of internal combustion engines. To achieve this goal, all research authorities sought to maximize the production of alternative fuels that can be used in internal combustion engines without making fundamental changes in the original fuel systems. The production of biofuels from used edible oils, the cultivation and harvesting of algae, and the fermentation of agricultural residues are among the most important research directions in this regard. In this context, researchers are working through innovative mathematical and numerical methods in their research with the use of nanometric material technologies in order to achieve the best performance parameters in internal combustion engine systems.





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