

Special Issue

Advanced Technologies for Sustainable Bio-Fuels Production

Message from the Guest Editors

Both the negative global warming impact and environmental pollution due to fossil fuels have led the modern society to find alternatives to conventional fuels, such as the renewable energy sources. More specifically, biofuels derived from renewable biomass (lignocellulosic biomass or organic waste and wastewater streams such as agricultural, agro-industrial, or municipal) are considered as one of the most promising renewable energy sources. Such resources are characterized by high abundance while they are CO₂ neutral. However, an efficient, realistic and affordable replacement of fossil fuels with the renewable ones demand not only competitive costs but also quantities, which will require advancement and improvement of their production technologies. In terms of circular economy and sustainable processes implementation, biological, biochemical and thermochemical techniques are able to transform biomass into valuable biofuels.

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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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