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Advanced Technologies for Sustainable Bio-Fuels Production

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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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Special Issue



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Message from the Editor-in-Chief

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