



Bioenergy for Sustainable Development: Advances and Applications

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Message from the Guest Editor

According to the latest IPCC reports, using biomass-based feedstocks for generating energy and transport fuels can be considered as a viable option for moving away from fossil fuels to renewable fuels. Many kinds of technological solutions are possible, such as thermal and chemical conversion processes of combustion, pyrolysis, gasification, and fermentation. Possible biomass feedstocks include agricultural waste, forest industry waste, and algae. Bioenergy and biofuels offer a lot of opportunities, and their use has to be sustainable and carbon-neutral. However, some challenges are also created, such as competition with food production and feedstock availability. These opportunities and challenges can be studied further, and thus, sustainable methods for bioenergy can be demonstrated and commercialized. In this Special Issue, potential advances and applications of bioenergy are presented, including also aspects of their economical, social, and environmental sustainability.





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