



Advances in Biofuels and Bioenergy Production

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Message from the Guest Editors

Dear Colleagues,

The world dependency on fossil fuels and its undesired consequences in terms of sustainability and climate change are issues of global concern. There is a pressing need to look at alternative and sustainable fuel sources to satisfy the increasing energy demands. Biofuels offer one such alternative. This Special Issue focuses on the conversion of biomass to biofuels. The topics covered are wide-ranging, from potential biomass feedstocks to energy conversion pathways such as thermal and catalytic conversions of various biomass-derived hydrocarbons, transesterification, and pyrolysis. The use of green technology and process optimization and costing will also receive special attention. Topics of interest in this Special Issue include, but are not limited to, the following areas:

- Production of biomass-derived fuels (solids, liquids and gases);
- Bioenergy processes;
- Optimization of sustainable energy systems;
- Socio-economic implications of bioenergy production;
- Green bioenergy technologies;
- Life-cycle analysis of biofuels.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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