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Recent Advances in 4E (Energy, Exergy, Economic, and Environmental) Analysis of Chemical Processes for the Biofuels and Bioenergy Production

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Message from the Guest Editors

This Special Issue on “Recent Advances in 4E (energy, exergy, economic, and environmental) Analysis of Chemical Processes for the Biofuels and Bioenergy Production” intends to invite the latest research that addresses the thermodynamic, techno-economic, and environmental analysis of various biofuels production processes and energy conversion systems. Topics include, but are not limited to:

- Process system engineering;
- Biofuels production;
- Waste-to-energy process;
- Biorefinery process;
- Bioproducts production combined heat and power plant;
- Bioreactor design, engineering, and control;
- Biomass energy with CO₂ capture for negative emissions;
- Circular economy.



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Special Issue



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Message from the Editor-in-Chief

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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