Special Issue

Utilization of Biomass Fuels and Combustion Emission Control in Low Carbon Energy System

Message from the Guest Editors

The transition to a low-carbon energy system is vital for mitigating the environmental impacts of conventional energy sources and combating climate change. Biomass fuels offer a promising solution as renewable and abundantly available resources for sustainable energy production. This Special Issue aims to showcase the progress and knowledge in the field of biomass fuel utilization and the control of combustion emissions. and to explore these challenges and opportunities for further research. It is hoped that this Special Issue will serve as a platform to disseminate cutting-edge research, advancements, and innovative solutions in the field of biomass fuel utilization and combustion emission control.

Topics of interest for publication include, but are not limited to:

- All aspects of biomass/waste thermochemical conversion, special attention being paid to combustion and co-firing with coal;
- Biomass gasification;
- Pyrolysis of biomass and other wastes for high-quality fuels;
- Emission control of the aforementioned process;
- Particulate matter formation and control during the combustion process;
- LCA and TEA of related processes and industrial applications;

Guest Editors

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Deadline for manuscript submissions

closed (5 July 2025)

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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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