Special Issue

Thermochemical Conversions of Biomass and Its Safety Evaluation

Message from the Guest Editors

Thermochemical conversions (e.g., hydrothermal carbonization, torrefaction, pyrolysis, gasification) have been considered as one of the most viable pathways to process biomass and wastes into energy, fuel, materials, and chemicals. The basic understanding along with the economic viability of thermochemical conversions of biomass and wastes have already been established. However, understanding the safety associated with the conversion processes will require more research. Thus, this special issue will deal with original research and review articles those consider the safety associated with the pre-processing and conversion processes of biomass and wastes feedstocks. Topics of interest for the publication include but are not limited to:

- Thermochemical conversions (e.g., hydrothermal carbonization, torrefaction, pyrolysis, gasification) of biomass, municipal solid wastes, plastic wastes, electronic wastes, etc.
- Safety associated with thermochemical processes
- Safety modelling
- Commercial scale thermochemical conversion plants and their process safety
- Consequence analysis

Guest Editors

Dr. Nepu Saha

Research Scientist, Energy and Environment Science & Technology, Idaho National Laboratory, Idaho Falls, ID 83415, USA

Dr. Jordan Klinger

Research Engineer, Energy and Environment Science & Technology, Idaho National Laboratory, Idaho Falls, ID 83415, USA

Deadline for manuscript submissions

closed (31 October 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/148011

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)