Special Issue

Advances in Thermochemical Conversion of Solid Wastes

Message from the Guest Editors

Thermochemical conversion of solid wastes utilizes heat to transform waste materials into energy and other valuable products. This technology is seen as a promising solution to the dual challenges of waste management and sustainable energy production. It encompasses several distinct techniques, including depolymerization, torrefaction, pyrolysis, gasification, hydrothermal conversion, and combustion, each with its own specific applications and end products. We welcome original contributions in the fields of thermochemical conversion of biomass and solid waste to this Special Issue, the scope of which includes, but is not limited to:

- Thermochemical conversion technologies;
- Kinetic analysis of themochemical conversion;
- Catalysis for solid waste conversion;
- The application of machine learning in this area;

We invite you to submit related papers, original research articles, and reviews to this Special Issue, “Advances in Thermochemical Conversion of Solid Wastes”.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2025)

Molecules

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Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/191043

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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