Special Issue

Cutting-Edge Developments in Waste-to-Energy Technologies

Message from the Guest Editors

With increasing global waste generation and the need for sustainable energy, waste-to-energy technologies have become crucial in environmental science and engineering. The diversity of waste materials—such as organic, plastic, and industrial waste—offers unique opportunities for technological innovation. Recent advancements, including anaerobic digestion, incineration, gasification, and pyrolysis, bio-oil production, have enhanced the efficiency of energy recovery while minimizing waste sent to landfills. These technologies contribute to renewable energy in the form of electricity, heat, RDF, fuel gasses, and biofuels. Our goal is to explore the potential of waste-to-energy technologies in fostering a circular economy, improving resource recovery, and reducing greenhouse gas emissions. By encouraging interdisciplinary research, this issue will promote collaboration among scientists, engineers, policymakers, and industry stakeholders. We look forward to your contributions that will help shape the future of waste-to-energy technologies.

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Deadline for manuscript submissions

20 September 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/218304

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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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