Special Issue

Advances in Waste-to-Energy Technologies

Message from the Guest Editor

Dear colleagues, This Special Issue, "Advances in Waste-to-Energy Technologies", aims to present the latest scientific and technological advancements, innovative processes, and integrated approaches that transform various waste streams into valuable energy resources. Traditional waste-to-energy methods such as incineration, gasification, and pyrolysis have evolved significantly in recent years, driven by improvements in conversion efficiency, emission control, and feedstock flexibility. In addition, emerging technologies such as plasma gasification, hydrothermal liquefaction, anaerobic digestion, and microbial electrochemical systems are expanding the possibilities for energy recovery from municipal solid waste, agricultural residues, industrial by-products, and wastewater. However, many technical, economic, and environmental challenges remain to be addressed before large-scale, sustainable deployment can be achieved. This Special Issue welcomes original research papers, comprehensive reviews, and case studies that contribute to the understanding, optimization, and application of advanced waste-to-energy systems.

Guest Editor

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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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