Special Issue

Advances in Waste-to-Energy Systems for Decarbonization

Message from the Guest Editors

Decarbonization has become a worldwide trend, especially ever since the main economies declared their ambitious strategies towards a carbon-neutral society by 2050. The energy sector is key to achieving this goal. Waste-to-energy(WTE) technologies offer an opportunity for synergy between waste disposal reduction and the energy sector's transition. Therefore, tracking the latest progress in WTE technology development and summarizing the results of recent research has become even more important. This Special Issue aims to:

- **Identify the opportunities and challenges related to WTE systems in concepts such as circular economy, eco-industrial park, zero-waste city and carbon-neutral society;**
- **Track recent progress in related technology development such as smart sorting systems, waste-to-fuel, power generation and waste heat utilization;**
- **Optimize system design, embedding WTE technologies or technology combination in industrial parks or cities;**
- **Evaluate the performance of WTE systems from a life cycle perspective, cost–benefit judgement, ecological footprint, social impact assessment.**

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Deadline for manuscript submissions

closed (31 July 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/145306

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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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