

## Special Issue

# Waste-to-Energy and the Circular Economy: Towards Sustainable Resource Management

### Message from the Guest Editor

This Special Issue aims to present up-to-date research in the field of energy generation and resource recovery from various types of waste via WtE, as well as the current challenges and trends in WtE towards the circular economy. The topics of interest for publication in this Special Issue include, but are not limited to, the following:

- WtE technological improvements and innovations for different types of waste for energy production and resource recovery.
- Integration of WtE with the principles of the circular economy to maximize resource efficiency and minimize waste generation.
- WtE technology integrated with carbon capture.
- Life-cycle assessment and social life-cycle assessment of WtE.
- Environmental and economic sustainability assessments concerning the conversion of waste into bioenergy or materials.
- Waste utilization for value-added products.
- Market potential of medium-scale WtE plants.
- Policy frameworks, economic viability, and social acceptance of WtE.
- Modelling and optimization in bio-waste processing.

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### Guest Editor

Dr. Alexandra V. Michailidou

School of Mechanical Engineering, Aristotle University of Thessaloniki,  
54124 Thessaloniki, Greece

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### Deadline for manuscript submissions

20 June 2025



## Energies

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MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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## 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.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

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