

Special Issue

Recent Advances in Waste Management and Recycling

Message from the Guest Editor

In recent years, the focus of waste management and recycling has shifted towards a circular economy and sustainable practices. This transition, however, is not uniform and varies by region, influenced by factors such as local economies, legislation, and public pressure. To make informed decisions on technological options, optimization and simulation models are necessary. However, there is still much room for improvement, both in technology as well as in modeling dimensions, such as the use of thermo-chemical valorization of waste or exploring waste streams to create marketable co-products. Acknowledging the important role of informal sectors in waste collection and recycling is also critical. Overall, recent advances in waste management and recycling aim to transition to a circular economy and sustainable practices. In this Special Issue, the submission of manuscripts on the use of rigorous mathematical optimization and simulation models and innovative technologies to support localized waste management strategies, is welcome to contribute towards creating a cleaner and more sustainable future.

Guest Editor

Prof. Dr. Paulo Ferrão

Center for Innovation, Technology and Policy Research, Avenida Rovisco Pais, 1049-001 Lisboa, Portugal

Deadline for manuscript submissions

closed (30 April 2024)



Environments

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.7



mdpi.com/si/167226

Environments
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
environments@mdpi.com

[mdpi.com/journal/
environments](https://mdpi.com/journal/environments)





Environments

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.7



[mdpi.com/journal/
environments](https://mdpi.com/journal/environments)



About the Journal

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Sergio Ulgiati

1. Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy

2. School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xijiekouwai Street, Beijing 100875, China

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg, AGRIS, GeoRef, and other databases.

Journal Rank:

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).