# **Special Issue**

# Treatment of Bottom Ash Deriving from Waste Incineration

### Message from the Guest Editors

As municipal solid waste incineration expands worldwide, incinerator bottom ash (IBA) has become a important stream for advancing circular, low-impact waste management. Research areas may include, but are not limited to, the following:

- Advanced characterization of IBA and treated IBA (mineralogy, chemistry, imaging, synchrotron/neutron methods, micro- to macro-scale).
- Leaching and durability: Aging/weathering, carbonation kinetics, eco-toxicity, and long-term performance.
- Process innovation: Metals recovery (ferrous/nonferrous), washing/granulation, accelerated carbonation, thermal and alkali activation, vitrification/melting, and geopolymer binders.
- Engineering applications: Aggregates in concrete/asphalt, hydraulically bound materials, ceramics, lightweight products, specification compliance, and quality control.
- Risk, policy, and end-of-waste: Testing protocols, standards, permitting, and market uptake.
- Sustainability metrics: LCA/LCC, carbon sequestration by carbonation, and socio-economic impacts.

This Special Issue aims to accelerate the shift from disposal to safe, high-value reuse, supporting resilient and circular resource flows.

#### **Guest Editors**

Prof. Dr. Luciana Mantovani

Dr. Paola Stabile

Dr. Maximiliano Fastelli

### Deadline for manuscript submissions

31 October 2026



# Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/257291

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

mdpi.com/journal/ sustainability





## Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



## **About the Journal**

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

### Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

#### **Author Benefits**

### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

