

## 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 an 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/non-ferrous), 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.

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### Guest Editors

Prof. Dr. Luciana Mantovani

Dr. Paola Stabile

Dr. Maximiliano Fastelli

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### Deadline for manuscript submissions

31 October 2026



## Sustainability

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

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