

Special Issue

Sustainable Green Technology for Sustainable Waste Management in Terms of Municipal Solid Waste from Recycle to Reuse Residual

Message from the Guest Editors

Municipal solid waste (MSW) serves as a fundamental component in the implementation of the circular economy model. Within the framework of sustainable development, MSW incineration technology effectively achieves the dual objectives of reducing MSW volume and utilizing energy resources. This Special Issue emphasizes technological innovation and system optimization throughout the entire MSW technology chain, examining its deep integration into sustainable development goals and the circular economy framework. Applications of AI play a crucial role in optimizing energy production to maximize energy recovery while minimizing environmental impacts. Potential articles for submission include:

- Intelligent scheduling for MSW collection and transportation;
- MSW intelligent classification and online recognition;
- AI-based process optimization and control for emissions reduction of the MSWI process;
- Economic and environmental impacts of the residue secondary utilization;
- Enhancing MSW management with large language models;
- Collaborative optimization of the “collection–transportation–classification–incineration–purification–secondary utilization” closed-loop MSW system.

Guest Editors

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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

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