

Special Issue

Organic Waste Treatment and WWTPs Advanced Treatment

Message from the Guest Editor

Organic waste comprises sewage sludge, agricultural and forestry biomass, industrial organic waste, food waste, animal waste, etc. These wastes contain a wealth of chemical energy, and their clean and efficient conversion presents an opportunity for the dual benefits of resource recovery and environmental conservation. Similarly, in the face of the dual challenges posed by water pollution and water scarcity, wastewater regeneration and recycling have emerged as critical measures able to enhance the efficiency of water resource utilization. Therefore, the development of efficient and cost-effective technologies for advanced wastewater treatment becomes imperative.

Potential topics include, but are not limited to, the following: biotransformation technologies (such as anaerobic digestion and aerobic composting), pyrolysis gasification, pyrolysis carbonization, and carbon emission reduction (for organic waste treatment); adsorption and ion exchange, membrane separation technologies, advanced oxidation processes, constructed wetlands, bacteria–microalgae treatment, novel biological denitrification technologies; and the development of various combination processes.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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