Special Issue

Removal of Organics, Nutrients, Emerging Contaminants and Health Related Viruses in Biological Treatment of Wastewater

Message from the Guest Editor

Biological removal of organics and nutrients is a traditional issue for organic wastewater pollution control and management, which not only meets economic requirements but also achieves carbon emission reduction and carbon neutrality. Cost-effectively recovering resources from wastewater and generated sludge, as well as reclaiming wastewater can completely offset wastewater treatment costs or even generate a profit. Biofilm-based treatment technologies have emerged as a promising alternative in biological processes such as anaerobic ammonium oxidation (ANAMMOX), while emerging contaminants and the coronavirus pandemic are emphasizing the relevance of pollutants and viruses to human health. To mitigate and prevent the impacts of emerging contaminants, COVID-19 and other relevant viruses on human and ecosystem health, research on risk assessment, and control measures are immediate priorities. This Special Issue calls for contributions on the topics related to organic wastewater management based on biological treatments.

Guest Editor

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

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