Special Issue

Research on Detection of Pathogens in Wastewater

Message from the Guest Editors

Research on the detection of pathogens in wastewater is crucial in order to better understand and monitor public health. By analyzing wastewater, scientists can identify the presence and concentration of various pathogens, providing valuable insights into community-wide infections and potential disease outbreaks. This kind of research utilizes advanced techniques such as molecular methods, including PCR and digital PCR, to detect genetic material from viruses and bacteria. The study of pathogens in wastewater is particularly significant during pandemics, aiding in the early detection of infectious diseases like SARS-CoV-2, allowing wastewater-based surveillance to serve as a complementary tool to traditional clinical and vector surveillance, offering a real-time and comprehensive perspective on the prevalence and circulation of pathogens in a population. This research contributes to the development of effective public health strategies and enhances our ability to respond to emerging health threats.

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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