Special Issue

Temporal and Spatial Evolution Characteristics of Pollutants in Wastewater

Message from the Guest Editors

Wastewater has been widely known as a source of characteristics pollutants. Characteristic pollutants in wastewater offer rapid and precise spatial–temporal insights into chemical consumption, use, exposure, release of chemicals or health risk and early warning of infectious disease spread and antibiotic resistance. There have been thousands of wastewater studies on characteristic-pollutant monitoring published since 2020. Despite this success, many challenges remain in the post-COVID era, there is a compelling need to expand the temporal and spatial evolution characteristics of pollutants in wastewater across a variety of communities, spanning from local neighborhoods to entire countries. The primary objective of this research topic is to concentrate on the temporal and spatial evolution characteristics of pollutants in wastewater. Emphasis is placed on exploring novel applications in diseases and exposure early-warning systems, conducting temporal–spatial studies to scrutinize patterns of health risk and refining analysis methods to minimize uncertainties.

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Deadline for manuscript submissions

closed (20 July 2024)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/196449

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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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