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New Assessment Tools and Perspectives on Environmental and Human Health Effects of Wastewater Discharges in Coastal Waters

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Deadline for manuscript submissions:
closed (10 August 2022)

Message from the Guest Editors

Coastal waters are vulnerable to a range of effects from coastal discharges, including the loss of biological diversity and ecosystem services, and human health effects from exposure to wastewater contaminants. These effects are principally derived from municipal and private wastewater outfalls, stormwater drainage systems, and industrial discharges, and can manifest as nutrient enrichment, alterations in the physical and chemical structure of the water column, and changes in biological community structure. We now have high-resolution remote sensing capabilities from radar, thermal, and optical sensors that can provide high-resolution information to monitor the surface expression of discharge plumes as evidenced by sea-surface roughness, temperature, and water reflectance due to organic matter. This Special Issue explores these applications within the context of the latest environmental impact assessment theory and discharge-permitting regimes. We welcome papers that report the integration of these tools at local, regional, and global scales to evidence the magnitude and likelihood of effects and how these can be managed to protect the environment and human health.

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Message from the Editor-in-Chief

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.

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