Special Issue

Water Safety, Ecological Risk and Public Health

Message from the Guest Editors

Addressing the tripartite nexus of water safety, ecological resilience, and public health necessitates interdisciplinary innovation. Critical challenges include the proliferation of emerging contaminants, cumulative ecosystem stressors, and inequitable exposure pathways threatening vulnerable populations. This Special Issue presents rigorous investigations at the molecular-to-landscape scale to elucidate contamination dynamics, exposure mechanisms, and risk mitigation paradigms. Priority domains encompass public health biomarkers (e.g., epigenetic, genotoxic, or endocrine-disrupting agents) in waterborne disease etiology; wastewater-based epidemiology for the spatiotemporal surveillance of viral variants and chemical co-exposure; mechanistic ecological risk models integrating bioavailability, trophic transfer, and climate-driven perturbation scenarios; and advanced remediation technologies targeting high-risk contaminants (e.g., engineered nanomaterials, halogenated organics). Submissions must articulate quantitative risk frameworks, policy-relevant monitoring protocols, or scalable engineering solutions aligned with sustainable development targets.

Guest Editors

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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.

Editor-in-Chief

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