



water

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Current and Future Challenges of Water: Innovative Technologies

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Message from the Guest Editors

Freshwater that is found in rivers, lakes, wetlands, and aquifers accounts for less than one percent of the world's water supply. About one billion people do not have access to safe drinking water. In today's world, as the global population grows and economic development is on the rise, so is the demand for water. However, climate change is disrupting the natural water cycles of many freshwater ecosystems. Human activities, including pollution from point and nonpoint source contaminants, infrastructure development, and resource extraction, pose additional challenges. The toxicity and health impacts of contaminants of emerging concern that include pharmaceuticals, urban, and agricultural runoffs are not fully understood. The issues related to toxic algal bloom, chemical spills, and unregulated chemical releases are affecting drinking water qualities globally. This issue will focus on current and emerging challenges of water contaminants, the fate and transport, toxicity, mode of degradations, and the development of cost-effective treatment techniques and energy reduction.



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Special Issue



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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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