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Temporal and Spatial Patterns in Drinking Water Quality Across the United States

Guest Editor:

Dr. Michael J. Pennino
U.S. Environmental Protection Agency

Deadline for manuscript submissions:
closed (20 December 2020)

Message from the Guest Editor

Under the Safe Drinking Water Act (SDWA), the U.S. Environmental Protection Agency has set standards for drinking water quality to protect human health and safety. The chemical contaminants that are regulated include nitrate/nitrite, disinfection byproducts, heavy metals, organic chemicals, and pathogens. There are often distinct spatial patterns in drinking water quality across the United States, with, for example, nitrate violations occurring often in areas with high agricultural lands and arsenic contaminant occurring in the southwest due to parent geology and other factors. Drinking water quality also varies regionally by public water system size, type, and population density. Temporally, drinking water contamination has seen declines in many of the prominent contaminants, likely due to regulations, enforcement, and improved treatment of public water supplies.

This Special Issue of *Water* aims to compile the latest knowledge on how drinking water quality various over space and time. Papers in this Special Issue will significantly contribute to the knowledge of how to continue to improve drinking water quality for all populations across the United States.

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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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