Special Issue

Advanced Technology for Water Quality Analysis and Treatment

Message from the Guest Editors

The detection and removal of contaminants from water are critical practices. In natural water, aquatic particulates are the most widespread, including nanoparticles, mineral grains, humus, microorganisms, and so on. They are the main carriers of multiple pollutants in water, affecting the fate and transport of contaminants. Urban water has been affected by pharmaceuticals and personal care products (PPCPs), emerging contaminants (EGs), heavy metals, and persistent organic pollutants in recent years. Some of these pollutants will combine with particulates or other contaminants, resulting in compound pollution to the water. Water quality can be modelled (support vector regression, logistic regression, artificial neural network) to analyze and predict. Some advanced technologies (photochemistry, electrochemistry, nanotechnology, membrane technology, biotechnology) have also been applied to water treatment. For traditional water treatment methods, the development of novel adsorbents, coagulants, and flocculants have greatly improved treatment efficiency and cost-effectiveness. For details, please find at:

https://www.mdpi.com/journal/water/special_issues/
Water_Quality_AT

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Deadline for manuscript submissions

closed (27 January 2023)

About the Journal

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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