Special Issue

Application of UV Technologies in Water and Wastewater Treatment

Message from the Guest Editors

Ultraviolet (UV) technologies have been widely applied to water and wastewater disinfection due to their high sterilization efficiency and property of no disinfection byproduct (DBP) generation. In addition, UV-based advanced oxidation processes (AOPs) have also become a hot issue in water treatment. The strong oxidizing radicals produced during UV-based AOPs can accelerate both microbial inactivation and pollutant degradation. UV technologies have been proved to have many advantages in water and wastewater treatment, but identifying how to use it efficiently and safely remains to be further studied. At present, low- and medium-pressure UV mercury lamps are still the most commonly used UV sources in water plants. Therefore, it is worth exploring whether the introduction of these new UV light sources will make a difference in water and wastewater treatment. This Special Issue is devoted to the application of different UV technologies in water and wastewater treatment, including the improvement of traditional UV technologies and the development of novel UV light sources, as well as water security during UV treatment.

Guest Editors

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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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