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Advances Research in Water and Wastewater Treatment Engineering Applications

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Message from the Guest Editor

The quality of drinking water has shown to be a primary cause of serious problems including transmission of pathogen agents responsible of varied infectious diseases. Hence, the methods of water treatment for human consumption pay special attention on the safe microbiological disinfection, as well as priority and emerging contaminants. Along the past few years the laws have seriously strengthened the parameters of water quality in many countries around the world. However, the disinfection processes employed in most conventional drinking water facilities such as chlorination, usually do not achieve full inactivation of all types of pathogens, whereas even in the presence of very low concentrations of organic matter, it leads to harmful disinfection by-products to form. Therefore, the development and implementation of clean, biologically safe, environmental-friendly and cost-effective technologies in the treatment of pathogen agents and new contaminants are mandatory.



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