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Sustainable Water Treatment and Contaminants Control: Technologies and Strategies

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Message from the Guest Editor

The goal of wastewater treatment systems has extended from contaminant removal to improving sustainability. It includes technology and strategy innovations to improve resource recovery and reduce consumption during wastewater treatment. Resource recovery involves effluent reuse, energy recovery, nutrient recovery and recovering pollutants such as metals and organics. Resource consumption reduction includes the improvement of treatment capability with effective energy and chemical usage. This Special Issue explores the barriers and opportunities of sustainable wastewater treatment and aims to bring ideas to academia and industry fields for sustainable wastewater treatment. The themes include, but are not limited to:

- Use of green materials, e.g., catalysts and adsorbents for sustainable wastewater treatment.
- Green technologies and processes for wastewater treatment.
- Sustainable solutions for various challenges in water treatment and management.
- Case studies on applications of innovations in sustainabile wastewater treatment.
- Resource, e.g., nutrients, energy and metals, recovery processes from wastewater.

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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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