Special Issue

Circle Sustainability of Wastewater and Sludge Treatment

Message from the Guest Editor

Wastewater treatment plants (WWTPs) can be an important part of circular sustainability due to integration of energy production and resource recovery during treated wastewater production. Global nutrient needs and the growing demand for water and energy in the world are the main reasons for implementing a circular economy concept in WWTPs and the promotion of innovative, cost-effective, and high-performance wastewater and sewage sludge treatment systems. Those novel generation treatment technologies must be able to produce high-quality treated effluent to reuse for agriculture and land irrigation, industrial purposes, toilet flushing, groundwater replenishing, as well as drinking water. WWTPs are also considered as a biorefineries to produce, e.g., biofuels, biogas, bioplastics, fertilizers, and constructed materials. In this Special Issue, we would like to bring together papers on the state-of-the-art of environmental technologies for sustainable development of WWTPs, including principles of wastewater and sewage sludge treatment, recourses recovery, as well as challenges and barriers which prevent the implementation of innovative technologies at the water sector.

Guest Editor

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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.

Editor-in-Chief

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