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Recent Innovations in the Development of Sustainable Engineered Technologies to Remove Emerging Pollutants from Water Environment and Ecology

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Deadline for manuscript submissions:
closed (20 December 2023)

Message from the Guest Editors

Dear Colleagues,

Water pollution and scarcity are issues of global concern. The discovery of new and emerging pollutants is increasing the threats to the survival of conventional wastewater treatment (WWTs) technologies.

Recently, there are several physical, chemical, and biological technologies that have been examined to remove these emerging pollutants from artificial and real wastewaters, however, they have shown some limitations regarding the pollutant removal efficiencies, higher cost and energy requirements, excessive sludge volume, toxicity issues etc. Therefore, this special issue is aimed to consider novel research works and review articles focused on (but not limited to) emerging pollutants, adsorption technologies, biological wastewater treatment, advance oxidation treatment, bioremediation, photodegradation, adsorbent materials, catalytic materials, modelling and simulation, membrane based materials, novel material fabrication and characterization, bioreactors, metal organic frameworks and biochar based materials, graphene and graphene oxide derivatives, carbon-derivative nanomaterials like graphitic carbon nitrides as well as carbon sponges/aerogels, etc.

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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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