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Wastewater Engineering and Environmental Catalysis

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editor

In recent years, the use of physicochemical methods, such as advanced oxidation processes (AOPs), for the treatment of waste water has consistently been gaining ground. These processes are based on the in situ production of very reactive oxygen species (mainly, but not exclusively, hydroxyl radicals, including technologies such as semiconductor photocatalysis, photon Fenton and Fenton like processes, ozonation, wet air oxidation, sonochemistry, electrochemical oxidation, gamma ray, etc.). At the same time, research into hybrid processes has been steadily growing over the past few years, involving more than one process, resulting in synergy effects, leading to a higher efficiency, which will lead to the implementation of these processes on a large scale. Under this perspective, this Special Issue of *Water* welcomes the application of various advanced oxidation processes for the treatment of highly resistant compounds, as well as for disinfection. Articles dealing with the application of new catalytic materials for environmental protection, as well as the experimental and modeling of pilot plants and hybrid processes, are particularly welcome.

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Editor-in-Chief

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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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