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Microbial Action in Wastewater and Sludge

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Deadline for manuscript submissions:
closed (30 November 2020)

Message from the Guest Editors

We welcome you to contribute to the Special Issue "Microbial Action in Wastewater and Sludge" with original articles and reviews addressing recent knowledge on: microbial removal and transformation of phosphorus and nitrogen, impact of toxic compounds (e.g., drugs, heavy metals, aromatic hydrocarbons, endocrine disrupting compounds) on biological activity of sewage sludge microbiome, and participation of microorganisms in degradation/transformation of contaminants. In connection with the above, changes in the functional capacity and genetic diversity of living microorganisms, their enzymatic activity, as well as new strategies that are designed to protect the structure and activity of the activated sludge microbial communities against xenobiotics will also be accepted. Articles on the use of microbial inocula with specific metabolic potential towards increasing the efficiency of contaminants removal during wastewater treatment and new bioremediation technology including nanotechnology will be expected.

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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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