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Innovative Processes in Wastewater Treatment

Guest Editor:

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Deadline for manuscript submissions:
closed (1 December 2020)

Message from the Guest Editor

Conventional activated sludge (CAS) treatment is the most used biological process for urban wastewater performed to obtain an efficient carbon and nitrogen removal and meet the regulatory requirements. However, the CAS process is generally designed to achieve nitrification and denitrification in two separated sludge system making it a non-energy efficient treatment. Moreover, this technology produces a large amount of excess sludge that needs to be treated and disposed thus creating both an environmental and economical problem. Therefore, there is a growing interest in technologies capable to reduce the overall energy consumption of the plant and to reduce the production of sludge also allowing a recovery of resources.

This special issue aims to address the current pressing problems of energy efficiency of wastewater treatment plants, sludge reduction and valorization of wastes with a possible recovery of resources. Paper are invited that investigate innovative treatment options in urban wastewater treatment engineering and sludge reduction technologies underlighting the latest scientific developments.

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Editor-in-Chief

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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