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Biological Wastewater Treatment Process and Nutrient Recovery

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Message from the Guest Editors

The biochemical wastewater treatment process has huge advantages, such as high efficiency, less energy consumption, simple operation and less investment, which can meet the requirements of modern urban sewage treatment. For now, many novel processes focusing on anaerobic ammonia oxidation (anammox), complete ammonia oxidation (comammox), partial nitrification, partial denitrification, enhanced biological phosphorus removal (EBPR), etc., have attracted much more attention. However, regarding the use of biological wastewater treatment processes, there is still a great need to continue to strengthen the research and innovation of the processes to further improve the carbon and nutrient removal efficiencies, and thus to contribute to the sustainable development of urban water resources. Moreover, many components can be recovered during the treatment process and from residuals from wastewater treatment, such as carbons, nutrients, metals and biodegradable plastic. New trends and technological innovations still need to be developed for the full-scale implementation and use of biological wastewater treatment.

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Message from the Editor-in-Chief

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