Special Issue

Equilibrium Processes in Nutrient Removal Technologies from Wastewater, Waste Reuse in Construction Materials

Message from the Guest Editor

Phosphorus and nitrogen in the effluent of wastewater treatment plants (WWTPs) lead to eutrophication and deterioration of the receiving water environments. The municipal wastewater discharge, which increases with the urbanization process, has become a serious threat to aquatic eco-systems in urban areas. Existing wastewater treatment yet remains a low level. Therefore, it has become a trend to upgrade municipal WWTPs and to implement more stringent discharge standards for water environmental regulation. The carbon to nitrogen ratio (C/N) is generally low in wastewater treatments using biogas plants, which leads to insufficient carbon source for nutrient removal in WWTPs. Anaerobic ammonium oxidation process can be applied for nutrient rich wastewater after biogas plants applications as well as after organic carbon has been used in microbial fuel cells for generating energy or enhancing nitrogen and phosphorus removal. Denitrifying phosphorus removal enables to save energy from aerobic stage using nitrate as electron acceptor to capture phosphorus. For further reading, please visit the Special Issue website

Guest Editor

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Message from the Editor-in-Chief

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Editor-in-Chief

Dr. Jean-Luc PROBST

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