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Sulfur cycle-based bioprocess for co-treatment of wet flue gas desulfurization wastes with fresh sewage

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Seawater toilet flushing has been adopted in Hong Kong for more than half a century, resulted in 22% reduction of freshwater demand. Meanwhile the saline swage containing high content of sulfate enables us to develop a novel sulfate reduction-autotrophic denitrification-nitrification integrated (SANI) process with minimal biowastes production. In this presentation, this sulfur cycle-based biological process for co-treatment of wet flue gas desulfurization wastes with freshwater sewage in inland areas will be discussed, including the organic and nitrogen removal performances, biowaste production, involved microorganisms as well as the optimization of the process.

Biography

Jin Qian has completed his Mphil and PhD from Department of Civil and Environmental Engineering, Hong Kong University of Science and Technology (HKUST). After his PhD degree, he carried out Post-doctoral study in HKUST for 1 year. Currently, he is an Associate Professor in Northwestern Polytechnical University, PR China. He has hosted more than 10 research projects funded by Natural Science Foundation of China (NSFC), Shenzhen Science and Technology Novelty Commission, Sichuan Science and Technology Department, etc. and published more than 15 papers in top journals and has been invited as the reviewer by reputed journals.

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