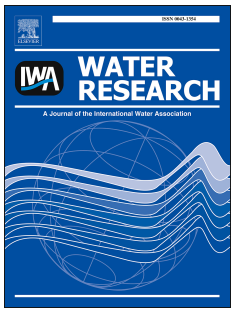
Accepted Manuscript



Achieving high-level nitrogen removal in mainstream by coupling anammox with denitrifying anaerobic methane oxidation in a membrane biofilm reactor

Guo-Jun Xie, Tao Liu, Chen Cai, Shihu Hu, Zhiguo Yuan

PII: S0043-1354(17)31032-1

DOI: 10.1016/j.watres.2017.12.037

Reference: WR 13435

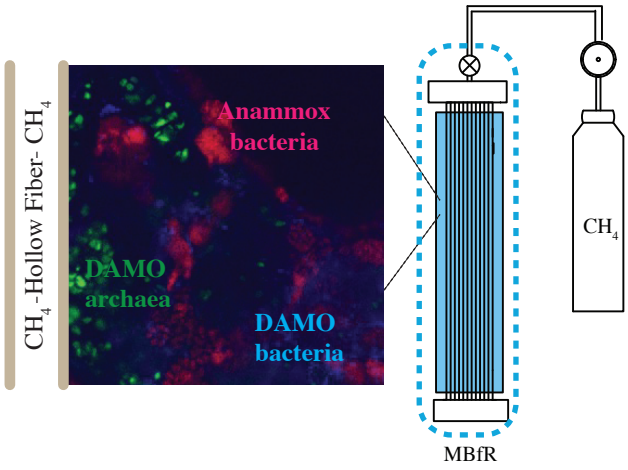
To appear in: *Water Research*

Received Date: 23 August 2017

Revised Date: 20 November 2017

Accepted Date: 17 December 2017

Please cite this article as: Xie, G.-J., Liu, T., Cai, C., Hu, S., Yuan, Z., Achieving high-level nitrogen removal in mainstream by coupling anammox with denitrifying anaerobic methane oxidation in a membrane biofilm reactor, *Water Research* (2018), doi: 10.1016/j.watres.2017.12.037.



Intergrating anammox and DAMO microorganisms in a membrane biofilm reactor to treat mainstream partial nitritation effluent