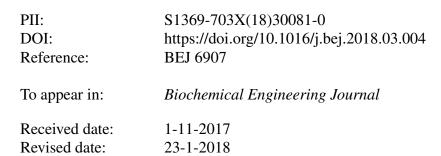
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Authors: Tengyi Zhu, Bin Xu, Jun Wu



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Experimental and mathematical simulation study on the effect of granule

particle size distribution on partial nitrification in aerobic granular

reactor

Tengyi Zhu, Bin Xu , Jun Wu*

School of Environmental Engineering and science, Yangzhou University, 196 West Huayang

Road, Yangzhou, Jiangsu, 225127, China

*Corresponding author: Tel. +8651487979528

E-mail address: jun.wu08@gmail.com; j.wu@yzu.edu.cn (J. Wu)

Highlights:

- Particle size distribution (PSD) was included in the biofilm model for granule sludge reactor
- Wide PSD spectrum was included
- Effect of granule PSD on the partial nitrification was examined
- High nitrite oxidizing bacteria (NOB) presence was found in granules less than 50µm

Abstract

The granules in the aerobic granular sludge reactor usually follow certain particle size distribution. In the previous studies, the average granule diameter was usually assumed in the model simulations. In this study, the impact of granule particle size distribution on the partial nitrification in the aerobic granular reactor was examined both in experiment and

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