### Accepted Manuscript

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Caiqin Wang, Yang Liu, Xinyi Gao, Hui Chen, Xiangyang Xu, Liang Zhu

PII: S0960-8524(18)31047-2

DOI: https://doi.org/10.1016/j.biortech.2018.07.116

Reference: BITE 20246

To appear in: Bioresource Technology

Received Date: 26 June 2018 Revised Date: 21 July 2018 Accepted Date: 23 July 2018



Please cite this article as: Wang, C., Liu, Y., Gao, X., Chen, H., Xu, X., Zhu, L., Role of biochar in the granulation of anaerobic sludge and improvement of electron transfer characteristics, *Bioresource Technology* (2018), doi: https://doi.org/10.1016/j.biortech.2018.07.116

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### **ACCEPTED MANUSCRIPT**

# Role of biochar in the granulation of anaerobic sludge and improvement of electron transfer characteristics

Caiqin Wang<sup>a</sup>, Yang Liu<sup>a</sup>, Xinyi Gao<sup>a</sup>, Hui Chen<sup>a</sup>, Xiangyang Xu<sup>a,b,c</sup>, Liang Zhu<sup>a,b,c</sup>,\*

<sup>a</sup> Institute of Environment Pollution Control and Treatment, Zhejiang University,

Hangzhou 310058, China

<sup>b</sup> Zhejiang Province Key Laboratory for Water Pollution Control and Environmental

Safety, Hangzhou 310058, China

<sup>c</sup> Zhejiang Provincial Engineering Laboratory of Water Pollution Control, 388

Yuhangtang Road, Hangzhou 310058, China

\*Corresponding author:

Dr. Liang Zhu

Address: Institute of Environment Pollution Control and Treatment, Zhejiang University,

No. 866 Yuhangtang Road, Hangzhou 310058, PR China.

Tel.: +8657188982343; Fax: +8657188982343

E-mail address: felix79cn@zju.edu.cn

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