

Accepted Manuscript

Anaerobic Digestion Performance of Vinegar Residue in Continuously Stirred Tank Reactor

Lin Li, Lu Feng, Ruihong Zhang, Yanfeng He, Wen Wang, Chang Chen, Guangqing Liu

PII: S0960-8524(15)00418-6
DOI: <http://dx.doi.org/10.1016/j.biortech.2015.03.086>
Reference: BITE 14776

To appear in: *Bioresource Technology*

Received Date: 11 December 2014
Revised Date: 16 March 2015
Accepted Date: 19 March 2015

Please cite this article as: Li, L., Feng, L., Zhang, R., He, Y., Wang, W., Chen, C., Liu, G., Anaerobic Digestion Performance of Vinegar Residue in Continuously Stirred Tank Reactor, *Bioresource Technology* (2015), doi: <http://dx.doi.org/10.1016/j.biortech.2015.03.086>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Anaerobic Digestion Performance of Vinegar Residue in Continuously Stirred Tank Reactor

Lin Li ^{a, †}, Lu Feng ^{a,b, †}, Ruihong Zhang ^{a,d}, Yanfeng He ^a, Wen Wang ^a, Chang Chen ^{c,*},
Guangqing Liu ^{a,*}

^a Biomass Energy and Environmental Engineering Research Center, College of Chemical Engineering, Beijing University of Chemical Technology, Beijing 100029, China; ^b CAS Key Laboratory of Biobased Materials, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao, 266101, China; ^c College of Life Science and Technology, Beijing University of Chemical Technology, Beijing 100029, China; ^d Department of Biological and Agricultural Engineering, University of California, Davis, CA 95616, United States

[†] Lin Li and Lu Feng contributed to this work equally.

* Corresponding authors

Chang Chen's e-mail: chenchang@mail.buct.edu.cn,

Guangqing Liu's e-mail: gqliu@mail.buct.edu.cn, Phone and Fax: +86-10-6444-2375

Address: 503-3A Zonghe Building, Beijing University of Chemical Technology, 15

North 3rd Ring East Road, Beijing 100029, China

Abbreviations:

AD	anaerobic digestion	C/N ratio	carbon to nitrogen ratio
CSTR	continuously stirred tank reactor	HRT	hydraulic retention time
OLR	organic loading rate	TA	total alkalinity
TMY	theoretical methane yield	TS	total solids
TVFA	total volatile fatty acids	VFA	volatile fatty acids
VS	volatile solids		

Download English Version:

<https://daneshyari.com/en/article/7075180>

Download Persian Version:

<https://daneshyari.com/article/7075180>

[Daneshyari.com](https://daneshyari.com)