Accepted Manuscript

Title: Speciation and bioavailability of heavy metals in pyrolytic biochar of swine and goat manures

Authors: Xinyi Zeng, Zhihua Xiao, Guolin Zhang, Andong Wang, Zihan Li, Yihan Liu, Hua Wang, Qingru Zeng, Yunshan Liang, Dongsheng Zou

PII: S0165-2370(17)30931-2

DOI: https://doi.org/10.1016/j.jaap.2018.03.012

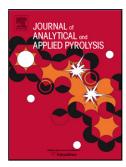
Reference: JAAP 4286

To appear in: J. Anal. Appl. Pyrolysis

Received date: 19-10-2017 Revised date: 26-2-2018 Accepted date: 8-3-2018

Please cite this article as: Xinyi Zeng, Zhihua Xiao, Guolin Zhang, Andong Wang, Zihan Li, Yihan Liu, Hua Wang, Qingru Zeng, Yunshan Liang, Dongsheng Zou, Speciation and bioavailability of heavy metals in pyrolytic biochar of swine and goat manures, Journal of Analytical and Applied Pyrolysis https://doi.org/10.1016/j.jaap.2018.03.012

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.



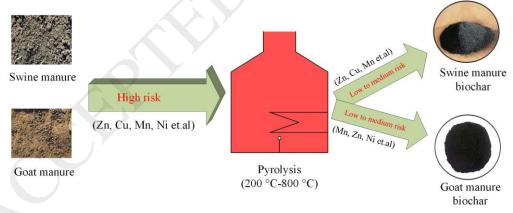
ACCEPTED MANUSCRIPT

Speciation and bioavailability of heavy metals in pyrolytic biochar of swine and goat manures

Xinyi Zeng ^{a, b}, Zhihua Xiao ^{a, b, *}, Guolin Zhang ^{a, b}, Andong Wang ^{a, b}, Zihan Li ^{a, b}, Yihan Liu ^{a, b}, Hua Wang ^{a, b, *}, Qingru Zeng ^b, Yunshan Liang ^{a, b}, Dongsheng Zou ^{a, b}

- ^a College of Bioscience and Biotechnology, Hunan Agricultural University, Changsha, Hunan, 410128, PR China
- ^b Key Laboratory for Rural Ecosystem Health in Dongting Lake Area of Hunan Province, Changsha 410128, PR China
- * Corresponding author. Tel.: +86-731-84673603; Fax: +86-731-84673603.E-mail address: xiaozhihua@hunau.edu.cn (Z.H. Xiao). Tel.: +86-731-84673603; Fax: +86-731-84673603.E-mail address: wangchina926@hunau.edu.cn (H. Wang).

Graphical abstract:



Highlights:

- Biochars were obtained from pyrolysis of swine and goat manures.
- Heavy metals were mostly enriched in biochar.
- Heavy metals were transformed from bioavailable fractions to the stable states.

Download English Version:

https://daneshyari.com/en/article/7606296

Download Persian Version:

https://daneshyari.com/article/7606296

<u>Daneshyari.com</u>