Accepted Manuscript

Facile One-Pot Synthesis of Sustainable Carboxymethyl Chitosan - Sewage Sludge Biochar for Effective Heavy Metal Chelation and Regeneration

Jerosha Ifthikar, Xiang Jiao, Audrey Ngambia, Ting Wang, Aimal Khan, Ali Jawad, Qiang Xue, Lei Liu, Zhuqi Chen

PII: S0960-8524(18)30566-2

DOI: https://doi.org/10.1016/j.biortech.2018.04.053

Reference: BITE 19833

To appear in: Bioresource Technology

Received Date: 9 March 2018 Revised Date: 8 April 2018 Accepted Date: 12 April 2018



Please cite this article as: Ifthikar, J., Jiao, X., Ngambia, A., Wang, T., Khan, A., Jawad, A., Xue, Q., Liu, L., Chen, Z., Facile One-Pot Synthesis of Sustainable Carboxymethyl Chitosan - Sewage Sludge Biochar for Effective Heavy Metal Chelation and Regeneration, *Bioresource Technology* (2018), doi: https://doi.org/10.1016/j.biortech. 2018.04.053

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

Facile One-Pot Synthesis of Sustainable

Carboxymethyl Chitosan - Sewage Sludge Biochar for

Effective Heavy Metal Chelation and Regeneration

Jerosha Ifthikar [†], Xiang Jiao [†], Audrey Ngambia [†], Ting Wang [†], Aimal Khan [†], Ali Jawad ^{†,‡}, Qiang Xue [§], Lei Liu [§], Zhuqi Chen [†]*

[†] Key Laboratory of Material Chemistry for Energy Conversion and Storage, Ministry of Education, Hubei Key Laboratory of Material Chemistry and Service Failure, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan 430074, P. R. China;

[‡] Department of Environmental Engineering, School of Environmental Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, P. R. China;

§ State Key Laboratory of Geomechanics and Geotechnical Engineering, Institute of Rock and Soil Mechanics, Chinese Academy of Sciences, Wuhan, 430071, P. R. China;

Keywords: Sewage sludge biochar; Carboxymethyl chitosan; Adsorption; Mercury; Lead

Download English Version:

https://daneshyari.com/en/article/7066915

Download Persian Version:

https://daneshyari.com/article/7066915

<u>Daneshyari.com</u>