Accepted Manuscript

Enhanced methylene blue adsorption onto activated reed-derived biochar by tannic acid

Yan Wang, Yong Zhang, Shiyin Li, Wenhui Zhong, Wei Wei

PII:	S0167-7322(18)33198-2
DOI:	doi:10.1016/j.molliq.2018.07.085
Reference:	MOLLIQ 9406
To appear in:	Journal of Molecular Liquids
Received date:	22 June 2018
Revised date:	18 July 2018
Accepted date:	20 July 2018

Please cite this article as: Yan Wang, Yong Zhang, Shiyin Li, Wenhui Zhong, Wei Wei, Enhanced methylene blue adsorption onto activated reed-derived biochar by tannic acid. Molliq (2018), doi:10.1016/j.molliq.2018.07.085

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

Enhanced methylene blue adsorption onto activated reed-derived biochar by tannic acid

Yan Wang ^{a,b}, Yong Zhang ^c, Shiyin Li ^{a,b}, Wenhui Zhong ^{a,b}, Wei Wei ^{a,b *}

^a Jiangsu Provincial Key Laboratory of Materials Cycling and Pollution Control, Jiangsu Engineering Laboratory of Water and Soil Eco-remediation, School of Environment, Nanjing Normal University, Nanjing 210023, China

^b Jiangsu Center for Collaborative Innovation in Geographical Information Resource Development and Application, Nanjing 210023, China

^c Department of Geological Sciences, University of Alabama, Tuscaloosa, AL 35487, USA

* Corresponding author: Wei Wei (W. Wei), weiwei5257@gmail.com

Abstract

This study investigated the effect of tannic acid (TA) on the adsorption efficiency of activated biochar (ABC) prepared from reed biomass regarding the removal of methylene blue (MB) from aqueous solution. The structure and chemical properties of the obtained ABC adsorbent were characterized by XRD, FTIR, N_2 adsorption-desorption isotherms, and scanning electron microscopy. After the HNO₃

Download English Version:

https://daneshyari.com/en/article/7841836

Download Persian Version:

https://daneshyari.com/article/7841836

Daneshyari.com