Accepted Manuscript

Adsorption of phenol by activated carbon in rotating packed bed: Experiment and modeling

Weiwei Li, Junjuan Yan, Zhifeng Yan, Yuncai Song, Weizhou Jiao, Guisheng Qi, Youzhi Liu

PII:	\$1359-4311(17)37384-2
DOI:	https://doi.org/10.1016/j.applthermaleng.2018.07.051
Reference:	ATE 12409
To appear in:	Applied Thermal Engineering
Received Date:	19 November 2017
Revised Date:	5 July 2018
Accepted Date:	9 July 2018



Please cite this article as: W. Li, J. Yan, Z. Yan, Y. Song, W. Jiao, G. Qi, Y. Liu, Adsorption of phenol by activated carbon in rotating packed bed: Experiment and modeling, *Applied Thermal Engineering* (2018), doi: https://doi.org/10.1016/j.applthermaleng.2018.07.051

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

Adsorption of phenol by activated carbon in rotating packed bed: Experiment and modeling

Weiwei Li^{a,b,*}, Junjuan Yan^{a,b}, Zhifeng Yan^c, Yuncai Song^d,

Weizhou Jiao^{a,b,*}, Guisheng Qi^{a,b}, Youzhi Liu^{a,b,*}

^a Shanxi Province Key Laboratory of Higee-oriented Chemical Engineering, North University of

China, Taiyuan, 030051, China

^b Research Center of Shanxi Province for High Gravity Chemical Engineering and Technology,

North University of China, Taiyuan, 030051, China

^c College of Textile Engineering, Taiyuan University of Technology, Taiyuan 030024, China

^d State Key Laboratory Breeding Base of Coal Science and Technology Co-founded by Shanxi

Province and the Ministry of Science and Technology, Taiyuan University of Technology, Taiyuan 030024, China

Abstract

This work assessed the feasibility of adsorbing phenol in aqueous solution by activated carbon in rotating packed bed (RPB). The effects of high gravity factor, liquid spray density and initial phenol

*Corresponding author: Tel:+86 351 3921986, Fax: +86 351 3921497 E-mail addresses: liweiwei197@126.com(W. Li), lyzzhongxin@126.com(Y. Liu), jwz0306@126.com (W. Jiao) Download English Version:

https://daneshyari.com/en/article/7044882

Download Persian Version:

https://daneshyari.com/article/7044882

Daneshyari.com