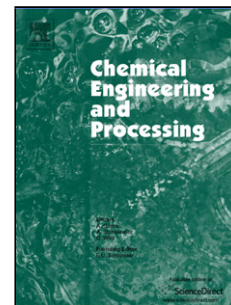


## Accepted Manuscript

Title: Study of the Combination of Sulfuric Acid Treatment and Thermal Regeneration of Spent Powdered Activated Carbons from Decolourization Process in Glucosamine Production

Authors: Erlan Zhou, Yanfeng He, Xinxin Ma, Guangqing Liu, Yan Huang, Chang Chen, Wen Wang



PII: S0255-2701(17)30538-X  
DOI: <http://dx.doi.org/10.1016/j.cep.2017.09.008>  
Reference: CEP 7072

To appear in: *Chemical Engineering and Processing*

Received date: 31-5-2017  
Revised date: 30-8-2017  
Accepted date: 12-9-2017

Please cite this article as: Erlan Zhou, Yanfeng He, Xinxin Ma, Guangqing Liu, Yan Huang, Chang Chen, Wen Wang, Study of the Combination of Sulfuric Acid Treatment and Thermal Regeneration of Spent Powdered Activated Carbons from Decolourization Process in Glucosamine Production, *Chemical Engineering and Processing*<http://dx.doi.org/10.1016/j.cep.2017.09.008>

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.

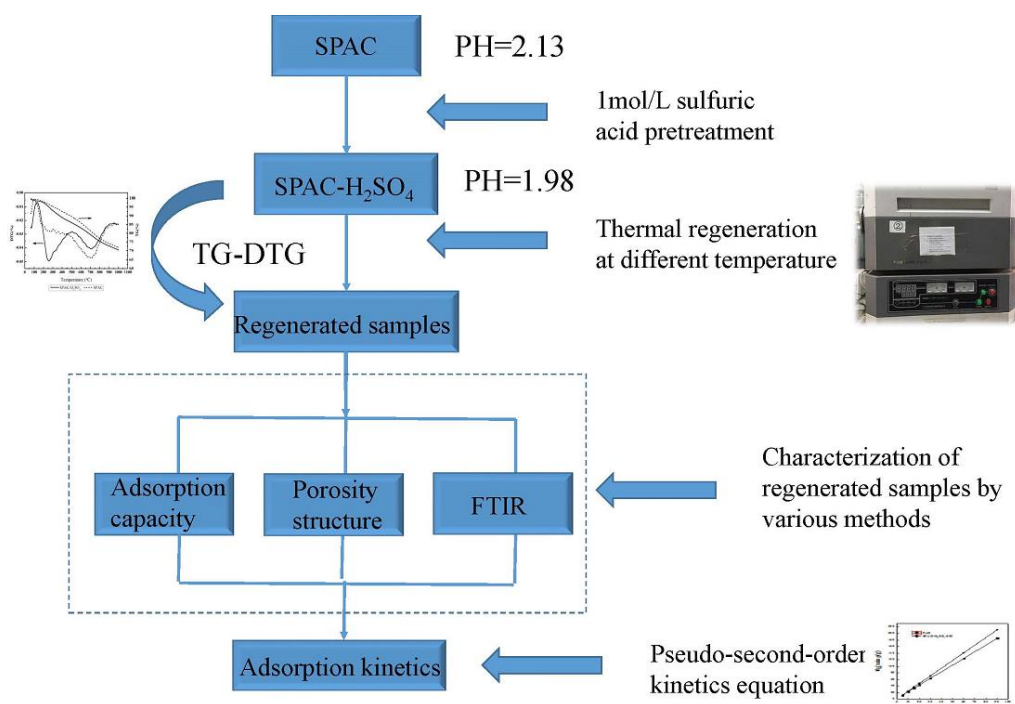
# Study of the Combination of Sulfuric Acid Treatment and Thermal Regeneration of Spent Powdered Activated Carbons from Decolourization Process in Glucosamine Production

Erlan Zhou<sup>1</sup>, Yanfeng He<sup>1\*</sup>, Xinxin Ma<sup>1</sup>, Guangqing Liu<sup>1</sup>, Yan Huang<sup>1</sup>, Chang Chen<sup>1</sup>, and Wen Wang<sup>1</sup>

<sup>1</sup>Contact information: Biomass Energy and Environmental Engineering Research Center, College of Chemical Engineering, Beijing University of Chemical Technology, Beijing 100029, China

\*Corresponding author: Yanfeng He. E-mail: litasha@126.com

## Graphical Abstract



## HIGHLIGHTS

- The combination of H<sub>2</sub>SO<sub>4</sub> and thermal regeneration is a promising method.
- The treatment of H<sub>2</sub>SO<sub>4</sub> had a positive effect on regeneration of SPAC.
- The thermal regeneration process was studied by TG-DTG
- The optimal regeneration effect was obtained at 600 °C for SPAC-H<sub>2</sub>SO<sub>4</sub>.

Download English Version:

<https://daneshyari.com/en/article/4998181>

Download Persian Version:

<https://daneshyari.com/article/4998181>

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