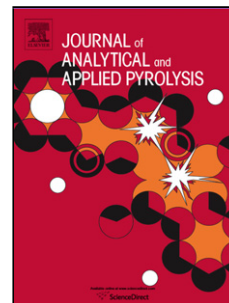


## Accepted Manuscript

Title: Pyrolysis Characteristics of Tobacco Stem after Different Solvent Leaching Treatments

Authors: Zhenguo Chen, Erwei Leng, Yang Zhang, Anqing Zheng, Yang Peng, Xun Gong, Yuqian Huang, Yu Qiao



PII: S0165-2370(17)31050-1  
DOI: <https://doi.org/10.1016/j.jaap.2017.12.009>  
Reference: JAAP 4208

To appear in: *J. Anal. Appl. Pyrolysis*

Received date: 27-11-2017  
Revised date: 15-12-2017  
Accepted date: 16-12-2017

Please cite this article as: Zhenguo Chen, Erwei Leng, Yang Zhang, Anqing Zheng, Yang Peng, Xun Gong, Yuqian Huang, Yu Qiao, Pyrolysis Characteristics of Tobacco Stem after Different Solvent Leaching Treatments, Journal of Analytical and Applied Pyrolysis <https://doi.org/10.1016/j.jaap.2017.12.009>

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.

## Title Page

### 1. Title

Pyrolysis Characteristics of Tobacco Stem after Different Solvent Leaching Treatments

### 2. Author names and affiliation

Zhenguo Chen<sup>1,3</sup>, Erwei Leng<sup>1</sup>, Yang Zhang<sup>1</sup>, Anqing Zheng<sup>2</sup>, Yang Peng<sup>1</sup>, Xun Gong<sup>1,\*</sup>, Yuqian Huang<sup>2</sup>, Yu Qiao<sup>1,\*</sup>

1. State Key Laboratory of Coal Combustion, Huazhong University of Science and Technology, Wuhan 430074, China.

2. Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, Guangzhou 510640, China

3. Hubei Tobacco Institute, Wuhan 430074, China

### 3. Corresponding authors

Name: Xun Gong

Mailing address: State Key Laboratory of Coal Combustion, Huazhong University of Science and Technology, 1037, Luoyu Road, Wuhan 430074, China

Fax: + 86-27-87545526 Email: gx@hust.edu.cn

Name: Yu Qiao

Mailing address: State Key Laboratory of Coal Combustion, Huazhong University of Science and Technology, 1037, Luoyu Road, Wuhan 430074, China

Fax: + 86-27-87545526 Email: yuqiao@hust.edu.cn

### Highlights:

1. Most alkaloids were removed by leaching with water, hydrochloric acid and alcohol.
2. Effects of leaching with water and alcohol were due to the removal of potassium.
3. Hydrochloric acid eliminated the ash completely leading to more sugars.
4. Hydrochloric acid can strongly destroy the structure of tobacco stem.

Download English Version:

<https://daneshyari.com/en/article/7606518>

Download Persian Version:

<https://daneshyari.com/article/7606518>

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