

Author's Accepted Manuscript

Rapid Volatiles Fingerprinting by Dopant-Assisted Positive Photoionization Ion Mobility Spectrometry for Discrimination and Characterization of Green Tea Aromas

Jia Li, Haibo Yuan, Yuefeng Yao, Jinjie Hua, Yanqin Yang, Chunwang Dong, Yuliang Deng, Jinjin Wang, Haiyang Li, Yongwen Jiang, Qinghua Zhou



www.elsevier.com/locate/talanta

PII: S0039-9140(18)30852-X
DOI: <https://doi.org/10.1016/j.talanta.2018.08.039>
Reference: TAL18960

To appear in: *Talanta*

Received date: 31 May 2018
Revised date: 3 August 2018
Accepted date: 12 August 2018

Cite this article as: Jia Li, Haibo Yuan, Yuefeng Yao, Jinjie Hua, Yanqin Yang, Chunwang Dong, Yuliang Deng, Jinjin Wang, Haiyang Li, Yongwen Jiang and Qinghua Zhou, Rapid Volatiles Fingerprinting by Dopant-Assisted Positive Photoionization Ion Mobility Spectrometry for Discrimination and Characterization of Green Tea Aromas, *Talanta*, <https://doi.org/10.1016/j.talanta.2018.08.039>

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 galley proof before it is published in its final citable 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.

**Rapid Volatiles Fingerprinting by Dopant-Assisted Positive
Photoionization Ion Mobility Spectrometry for Discrimination and
Characterization of Green Tea Aromas**

Jia Li^{a1}, Haibo Yuan^{a1}, Yuefeng Yao^a, Jinjie Hua^a, Yanqin Yang^a, Chunwang Dong^a,

Yuliang Deng^a, Jinjin Wang^a, Haiyang Li^c, Yongwen Jiang^{a*}, Qinghua Zhou^{b*}

^a Key Laboratory of Tea Biology and Resources Utilization, Ministry of Agriculture, Tea Research Institute, Chinese Academy of Agricultural Sciences, Hangzhou 310008, China

^b Key Laboratory of Microbial Technology for Industrial Pollution Control of Zhejiang Province, College of Environment, Zhejiang University of Technology, Hangzhou 310014, China

^c Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China

jiangyw@tricaas.com

qhzhou@zjut.edu.cn

*Corresponding author. Tel: +86-571-86650103.

*Corresponding author. Tel: +86-571-88320054.

ABSTRACT

Aroma is one major concern of tea flavor and represents an essential criterion for quality evaluation. Herein, we presented a novel approach for rapid, non-destructive and real-time fingerprinting of green tea aromas using ion mobility spectrometry (IMS)

¹ Jia Li and Haibo Yuan contributed equally to this study.

Download English Version:

<https://daneshyari.com/en/article/8942725>

Download Persian Version:

<https://daneshyari.com/article/8942725>

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