

## Accepted Manuscript

Role of Ammonia on Haloacetonitriles and Halonitromethanes Formation during Ultraviolet Irradiation followed by Chlorination/Chloramination

Zi YE, Wenjun Liu, Wenjun Sun, Xuebiao Nie, Xiuwei Ao

PII: S1385-8947(17)32195-2  
DOI: <https://doi.org/10.1016/j.cej.2017.12.073>  
Reference: CEJ 18234

To appear in: *Chemical Engineering Journal*

Received Date: 29 August 2017  
Revised Date: 13 December 2017  
Accepted Date: 15 December 2017

Please cite this article as: Z. YE, W. Liu, W. Sun, X. Nie, X. Ao, Role of Ammonia on Haloacetonitriles and Halonitromethanes Formation during Ultraviolet Irradiation followed by Chlorination/Chloramination, *Chemical Engineering Journal* (2017), doi: <https://doi.org/10.1016/j.cej.2017.12.073>

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.



Role of Ammonia on Haloacetonitriles and Halonitromethanes Formation  
during Ultraviolet Irradiation followed by Chlorination/Chloramination

Zi YE, Wenjun Liu\*, Wenjun Sun\*, Xuebiao Nie, Xiuwei Ao

School of Environment, Tsinghua University, Beijing, 100084, China

**\*Corresponding author 1**

Wenjun Liu

School of Environment, Tsinghua University, Beijing, 100084, China

Tel: +86-010-62782196

Fax: +86-010-62797643

E-mail: [wjliu@tsinghua.edu.cn](mailto:wjliu@tsinghua.edu.cn)

**\*Corresponding author 2**

Wenjun Sun

School of Environment, Tsinghua University, Beijing, 100084, China

Tel: +86-010-62782196

E-mail: [wsun@tsinghua.edu.cn](mailto:wsun@tsinghua.edu.cn)

**Abstract**

Combination of ultraviolet (UV) disinfection and chlorination became a common multi-barrier approach taken by water utilities against microbial pathogens in drinking water disinfection. Halogenated disinfection byproducts (DBPs) have been monitored and regulated in drinking water under various jurisdictions around the world for decades. More recently, several nitrogenous DBPs

Download English Version:

<https://daneshyari.com/en/article/6580424>

Download Persian Version:

<https://daneshyari.com/article/6580424>

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