

## Accepted Manuscript

Title: Biodegradation of sulfadiazine in microbial fuel cells:  
Reaction mechanism, biotoxicity removal and the correlation  
with reactor microbes

Authors: Lu Wang, Lexing You, Jiaming Zhang, Tao Yang,  
Wei Zhang, Zhongxiang Zhang, Pinxing Liu, Song Wu, Feng  
Zhao, Jun Ma



PII: S0304-3894(18)30699-X  
DOI: <https://doi.org/10.1016/j.jhazmat.2018.08.021>  
Reference: HAZMAT 19645

To appear in: *Journal of Hazardous Materials*

Received date: 13-3-2018  
Revised date: 18-7-2018  
Accepted date: 6-8-2018

Please cite this article as: Wang L, You L, Zhang J, Yang T, Zhang W, Zhang Z, Liu P, Wu S, Zhao F, Ma J, Biodegradation of sulfadiazine in microbial fuel cells: Reaction mechanism, biotoxicity removal and the correlation with reactor microbes, *Journal of Hazardous Materials* (2018), <https://doi.org/10.1016/j.jhazmat.2018.08.021>

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.

# Biodegradation of sulfadiazine in microbial fuel cells: reaction mechanism, biotoxicity removal and the correlation with reactor microbes

Lu Wang<sup>1</sup>, Lexing You<sup>2</sup>, Jiaming Zhang<sup>1</sup>, Tao Yang<sup>1</sup>, Wei Zhang<sup>1</sup>, Zhongxiang Zhang<sup>1</sup>,  
Pinxing Liu<sup>1</sup>, Song Wu<sup>3</sup>, Feng Zhao<sup>4,\*</sup>, and Jun Ma<sup>1,\*</sup>

<sup>1</sup> State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology, Harbin 150090, China

<sup>2</sup> Fujian Provincial Key Laboratory of Soil Environmental Health and Regulation, College of Resources and Environment, Fujian Agriculture and Forestry University, Fuzhou 350002, China

<sup>3</sup> Key Laboratory of Soil Environment and Pollution Remediation, Institute of Soil Science, Chinese Academy of Sciences, Nanjing 210008, China

<sup>4</sup> Key Laboratory of Urban Pollutant Conversion, Institute of Urban Environment, Chinese Academy of Sciences, Xiamen 361021, China

Corresponding authors:

\*Jun Ma, Phone/ Fax: 86 451 86283010; E-mail: [majun@hit.edu.cn](mailto:majun@hit.edu.cn);

\*\*Feng Zhao, Phone/ Fax: 86 592 6190766; E-mail: [fzhao@iue.ac.cn](mailto:fzhao@iue.ac.cn);

Download English Version:

<https://daneshyari.com/en/article/11003005>

Download Persian Version:

<https://daneshyari.com/article/11003005>

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