

Accepted Manuscript

Effects of sulfate on simultaneous nitrate and selenate removal in a hydrogen-based membrane biofilm reactor for groundwater treatment: Performance and biofilm microbial ecology

Lijie Zhou, Xiaoyin Xu, Siqing Xia



PII: S0045-6535(18)31350-X

DOI: [10.1016/j.chemosphere.2018.07.092](https://doi.org/10.1016/j.chemosphere.2018.07.092)

Reference: CHEM 21807

To appear in: *ECSN*

Received Date: 26 January 2018

Revised Date: 14 July 2018

Accepted Date: 16 July 2018

Please cite this article as: Zhou, L., Xu, X., Xia, S., Effects of sulfate on simultaneous nitrate and selenate removal in a hydrogen-based membrane biofilm reactor for groundwater treatment: Performance and biofilm microbial ecology, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.07.092.

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.

1 **Effects of sulfate on simultaneous nitrate and selenate removal in a**
2 **hydrogen-based membrane biofilm reactor for groundwater treatment:**
3 **performance and biofilm microbial ecology**

4 Lijie Zhou ^a, Xiaoyin Xu ^{b,*}, Siqing Xia ^{b,*}

5 ^a College of Chemistry and Environmental Engineering, Shenzhen University,
6 Shenzhen 518060, PR China

7 ^b State Key Laboratory of Pollution Control and Resource Reuse, Shanghai Institute of
8 Pollution Control and Ecological Security, College of Environmental Science and
9 Engineering, Tongji University, 1239 Siping Road, Shanghai 200092, PR China

10 *Corresponding author. Tel: +86 21 65980440; Fax: +86 21 65986313.

11 E-mail address: siqingxia@gmail.com (S. Xia); xiaoyinxus@gmail.com (X. Xu)

12

Download English Version:

<https://daneshyari.com/en/article/8850371>

Download Persian Version:

<https://daneshyari.com/article/8850371>

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