

## Accepted Manuscript

Title: Removal and degradation of  $\beta$ -lactam antibiotics in water using didodecyldimethylammonium bromide-modified montmorillonite organoclay

Author: Tohru Saitoh Takayoshi Shibayama



PII: S0304-3894(16)30558-1  
DOI: <http://dx.doi.org/doi:10.1016/j.jhazmat.2016.06.003>  
Reference: HAZMAT 17792

To appear in: *Journal of Hazardous Materials*

Received date: 14-10-2015  
Revised date: 14-5-2016  
Accepted date: 3-6-2016

Please cite this article as: Tohru Saitoh, Takayoshi Shibayama, Removal and degradation of  $\beta$ -lactam antibiotics in water using didodecyldimethylammonium bromide-modified montmorillonite organoclay, *Journal of Hazardous Materials* <http://dx.doi.org/10.1016/j.jhazmat.2016.06.003>

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.

**Removal and degradation of  $\beta$ -lactam antibiotics in water using  
didodecyldimethylammonium bromide-modified montmorillonite organoclay**

Tohru Saitoh<sup>a</sup> \*, Takayoshi Shibayama<sup>b</sup>

*<sup>a</sup>Department of Biotechnology and Environmental Chemistry, Kitami Institute of  
Technology, Koen-cho 165, Kitami 090-8507, Japan, <sup>b</sup>Graduate School of Engineering,  
Molecular Design and Engineering, Nagoya University, Furo-cho, Chikusa-ku, Nagoya  
464-8603, Japan,*

\*Corresponding author. Tohru Saitoh

Telephone +81 157 26 9387, Fax +81 157 24 7719

E-mail address: [saitoh@mail.kitami-it.ac.jp](mailto:saitoh@mail.kitami-it.ac.jp)

Postal address:

Department of Biotechnology and Environmental Chemistry, Kitami Institute of  
Technology, Koen-cho 165, Kitami 090-8507, Japan

Download English Version:

<https://daneshyari.com/en/article/6970383>

Download Persian Version:

<https://daneshyari.com/article/6970383>

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