

## Accepted Manuscript

Title: Removal of polycyclic aromatic hydrocarbons from soil using a composite material containing iron and activated carbon in the freeze-dried calcium alginate matrix: Novel soil cleanup technique

Authors: Mako Funada, Takeshi Nakano, Hiroshi Moriwaki

PII: S0304-3894(18)30142-0  
DOI: <https://doi.org/10.1016/j.jhazmat.2018.02.054>  
Reference: HAZMAT 19218

To appear in: *Journal of Hazardous Materials*

Received date: 6-11-2017  
Revised date: 21-2-2018  
Accepted date: 27-2-2018

Please cite this article as: Funada M, Nakano T, Moriwaki H, Removal of polycyclic aromatic hydrocarbons from soil using a composite material containing iron and activated carbon in the freeze-dried calcium alginate matrix: Novel soil cleanup technique, *Journal of Hazardous Materials* (2018), <https://doi.org/10.1016/j.jhazmat.2018.02.054>

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 of polycyclic aromatic hydrocarbons from soil  
using a composite material containing iron and activated  
carbon in the freeze-dried calcium alginate  
matrix: Novel soil cleanup technique

Mako Funada<sup>a</sup>, Takeshi Nakano<sup>b</sup>, Hiroshi Moriwaki<sup>a,c\*</sup>

<sup>a</sup> Shinshu University, Faculty of Textile Science and Technology, Division of Applied Biology,  
3-15-1, Tokida, Ueda 386-8567, Japan

<sup>b</sup> Research Center for Environmental Preservation, Osaka University, Yamadaoka 2-4, Suita,  
Osaka 565-0871, Japan

<sup>c</sup> Shinshu University, Division of Instrumental Analysis (Ueda branch), Research Center for  
Supports to Advanced Science, 3-15-1, Tokida, Ueda 386-8567, Japan.

Download English Version:

<https://daneshyari.com/en/article/6968752>

Download Persian Version:

<https://daneshyari.com/article/6968752>

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