

## Accepted Manuscript

Applicability and toxicity evaluation of an adsorbent based on jujube for the removal of toxic heavy metals

Byungryl An, Chang-Gu Lee, Mi-Kyung Song, Jae-Chun Ryu, Soon-jae Lee, Seong-Jik Park, Dongye Zhao, Song-Bae Kim, Chanhyuk Park, Sang-Hyup Lee, Seok Won Hong, Jae-Woo Choi

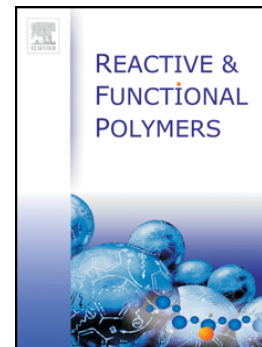
PII: S1381-5148(15)30014-6  
DOI: doi: [10.1016/j.reactfunctpolym.2015.06.009](https://doi.org/10.1016/j.reactfunctpolym.2015.06.009)  
Reference: REACT 3531

To appear in:

Received date: 23 May 2015  
Revised date: 11 June 2015  
Accepted date: 15 June 2015

Please cite this article as: Byungryl An, Chang-Gu Lee, Mi-Kyung Song, Jae-Chun Ryu, Soonjae Lee, Seong-Jik Park, Dongye Zhao, Song-Bae Kim, Chanhyuk Park, Sang-Hyup Lee, Seok Won Hong, Jae-Woo Choi, Applicability and toxicity evaluation of an adsorbent based on jujube for the removal of toxic heavy metals, (2015), doi: [10.1016/j.reactfunctpolym.2015.06.009](https://doi.org/10.1016/j.reactfunctpolym.2015.06.009)

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.



# Applicability and toxicity evaluation of an adsorbent based on jujube for the removal of toxic heavy metals

Byungryul An <sup>a,§</sup>, Chang-Gu Lee <sup>a,§</sup>, Mi-Kyung Song <sup>b</sup>, Jae-Chun Ryu <sup>b</sup>, Soonjae Lee <sup>a</sup>,  
Seong-Jik Park <sup>c</sup>, Dongye Zhao <sup>d</sup>, Song-Bae Kim <sup>e</sup>, Chanhyuk Park <sup>a</sup>, Sang-Hyup Lee <sup>a</sup>,  
Seok Won Hong <sup>a,f</sup>, Jae-Woo Choi <sup>a,f,\*</sup>

<sup>a</sup> Center for Water Resource Cycle Research, Korea Institute of Science and Technology, Hwarangno 14-gil 5, Seongbuk-gu, Seoul 136-791, Republic of Korea

<sup>b</sup> Center for Environment, Health and Welfare Research, Cellular and Molecular Toxicology Laboratory, Korea Institute of Science and Technology, Hwarangno 14-gil 5, Seongbuk-gu, Seoul 136-791, Republic of Korea

<sup>c</sup> Department of Bioresources and Rural System Engineering, Hankyong National University, Anseong, Republic of Korea

<sup>d</sup> Environmental Engineering Program, Department of Civil Engineering, 238 Harbert Engineering Center, Auburn University, Auburn, AL 36849, USA

<sup>e</sup> Environmental Functional Materials & Biocolloids Laboratory, Seoul National University, Seoul 151-921, Republic of Korea

<sup>f</sup> Department of Energy and Environmental Engineering, Korea University of Science and Technology (UST), Daejeon 305-350, Republic of Korea

\* Corresponding author at: Center for Water Resource Cycle Research, Korea Institute of Science and Technology, Hwarangno 14-gil 5, Seongbuk-gu, Seoul 136-791, Republic of Korea. Tel.: +82 2 958 5070; fax: +82 2 958 5839.

E-mail address: plead36@kist.re.kr (J.-W. Choi).

<sup>§</sup> These authors contributed equally.

Download English Version:

<https://daneshyari.com/en/article/5209740>

Download Persian Version:

<https://daneshyari.com/article/5209740>

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