

## Accepted Manuscript

Title: Lead bioaccessibility in 12 contaminated soils from China: correlation to lead relative bioavailability and lead in different fractions

Author: Jie Li Kan Li Mark Cave Hong-Bo Li Lena Q. Ma



PII: S0304-3894(15)00273-3  
DOI: <http://dx.doi.org/doi:10.1016/j.jhazmat.2015.03.061>  
Reference: HAZMAT 16709

To appear in: *Journal of Hazardous Materials*

Received date: 22-10-2014  
Revised date: 28-3-2015  
Accepted date: 29-3-2015

Please cite this article as: Jie Li, Kan Li, Mark Cave, Hong-Bo Li, Lena Q. Ma, Lead bioaccessibility in 12 contaminated soils from China: correlation to lead relative bioavailability and lead in different fractions, *Journal of Hazardous Materials* <http://dx.doi.org/10.1016/j.jhazmat.2015.03.061>

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  
2  
3 **Lead bioaccessibility in 12 contaminated soils from China: correlation to lead relative**  
4 **bioavailability and lead in different fractions**

5  
6 Jie Li<sup>a</sup>, Kan Li<sup>a</sup>, Mark Cave<sup>b</sup>, Hong-Bo Li<sup>a,\*</sup>, and Lena Q. Ma<sup>a,c,\*</sup>

7  
8 <sup>a</sup> *State Key Laboratory of Pollution Control and Resource Reuse, School of the Environment,*  
9 *Nanjing University, Nanjing, Jiangsu 210046, People's Republic of China*

10 <sup>b</sup> *British Geological Survey, Keyworth, Nottingham, NG12 5GG, United Kingdom*

11 <sup>c</sup> *Soil and Water Science Department, University of Florida, Gainesville, Florida 32611,*  
12 *United States*

13  
14 \*Corresponding author, Tel./fax: +86 025 8968 0631, E-mail: [lqma@ufl.edu](mailto:lqma@ufl.edu)

15  
16  
17  
18 **Highlights**  
19

- 20 • Four in vitro assays were used to measure Pb bioaccessibility in contaminated soils
- 21 • A single dose mouse blood model was used to estimate Pb relative bioavailability
- 22 • UBM gastric phase correlated ( $r^2=0.67$ ) with Pb relative bioavailability in soils
- 23 • Exchangeable and carbonate Pb fractions attributed most to bioavailable Pb in soils

Download English Version:

<https://daneshyari.com/en/article/6971078>

Download Persian Version:

<https://daneshyari.com/article/6971078>

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