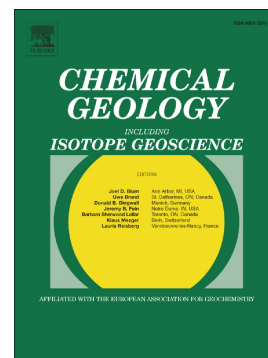


# Accepted Manuscript

Cr isotopic composition of the Laobao cherts during the Ediacaran–Cambrian transition in South China

Jing Huang, Jia Liu, Yingnan Zhang, Huajin Chang, Yanan Shen, Fang Huang, Liping Qin



PII: S0009-2541(18)30076-7  
DOI: <https://doi.org/10.1016/j.chemgeo.2018.02.011>  
Reference: CHEMGE 18650  
To appear in: *Chemical Geology*  
Received date: 21 June 2017  
Revised date: 5 February 2018  
Accepted date: 7 February 2018

Please cite this article as: Jing Huang, Jia Liu, Yingnan Zhang, Huajin Chang, Yanan Shen, Fang Huang, Liping Qin, Cr isotopic composition of the Laobao cherts during the Ediacaran–Cambrian transition in South China. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Chemge(2017), <https://doi.org/10.1016/j.chemgeo.2018.02.011>

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.

## Cr isotopic composition of the Laobao cherts during the Ediacaran–Cambrian transition in South China

Jing Huang<sup>a,\*</sup>, Jia Liu<sup>a</sup>, Yingnan Zhang<sup>a</sup>, Huajin Chang<sup>b</sup>, Yanan Shen<sup>a</sup>, Fang Huang<sup>a</sup>,  
Liping Qin<sup>a,\*</sup>

<sup>a</sup> CAS Key Laboratory of Crust-Mantle Materials and Environments, School of Earth and Space Sciences, University of Science and Technology of China, Hefei 230026, China

<sup>b</sup> School of Geosciences, Hubei University of Arts and Science, Xiangyang 441053, China

\*Email: hjmail@ustc.edu.cn; lpqin@ustc.edu.cn

### Abstract

In this study, we present the Cr isotopic compositions from the cherts in the Laobao Formation (~551–522 Ma) that were deposited in deep water in South China. The Cr concentrations and isotopic compositions in the Laobao cherts were dominated by the contemporaneous seawater and detrital phases. The lower part of the Laobao cherts show that the  $\delta^{53}\text{Cr}$  of contemporaneous deep seawater in the Huanan basin was approximately  $-0.1\text{‰}$ , and the  $\delta^{53}\text{Cr}$  of detrital materials was

Download English Version:

<https://daneshyari.com/en/article/8910324>

Download Persian Version:

<https://daneshyari.com/article/8910324>

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