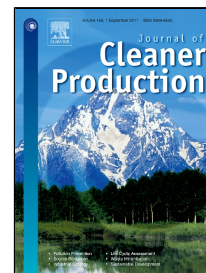


Accepted Manuscript

College students' Municipal Solid Waste source separation behavior and its influential factors: a case study in Beijing, China

Hua Zhang, Jiong Liu, Zong-guo Wen, Yi-Xi Chen



PII: S0959-6526(17)31393-8
DOI: 10.1016/j.jclepro.2017.06.224
Reference: JCLP 9974
To appear in: *Journal of Cleaner Production*

Received Date: 14 January 2016
Revised Date: 20 June 2017
Accepted Date: 25 June 2017

Please cite this article as: Hua Zhang, Jiong Liu, Zong-guo Wen, Yi-Xi Chen, College students' Municipal Solid Waste source separation behavior and its influential factors: a case study in Beijing, China, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.06.224

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.

Word count: 9863

1 **College students' Municipal Solid Waste source separation**
2 **behavior and its influential factors: a case study in Beijing, China**

3 **Hua Zhang^{1,*}, Jiong Liu¹, Zong-guo Wen², Yi-Xi Chen¹**

4 1 School of Humanities and Economic Management, China University of
5 Geosciences, Beijing 100083, China

6 2 State Key Joint Laboratory of Environment Simulation and Pollution Control
7 (SKLESPC), School of Environment, Tsinghua University, Beijing 100084,
8 China

9 * Corresponding Author; E-Mail: zhanghua.angela@aliyun.com

10

11 **Abstract**

12 China has the highest higher education enrollment across the world since 2005.
13 Beijing has China's greatest concentration of higher education universities and
14 institutes, and therefore has the greatest potential and necessity for conducting waste
15 source separation on university campuses. This study conducted a face-to-face
16 intercept survey on 10 university campuses in Beijing, to gather first-hand
17 information on students' waste source separation behavior and its influential factors.
18 The survey received a total of 509 valid respondents. Results showed that 47% of
19 the college students mixed all the MSWs at source, which is very similar to their
20 surrounding friends (43%) but much higher than their parents (27%). Nearly 90% of
21 the respondents can make a correct separation of food waste, but the accuracy rate
22 for waste drugs (76%), waste textiles (73%), waste batteries (69%), and waste
23 electrics (54%) is much lower. Special attention needs to be given to distinguishing
24 recyclables and hazardous wastes. For the testing of five influential factor
25 hypotheses, HP1, HP3, and HP4 can be accepted, and HP2 and HP5 can be partly

Download English Version:

<https://daneshyari.com/en/article/5480458>

Download Persian Version:

<https://daneshyari.com/article/5480458>

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