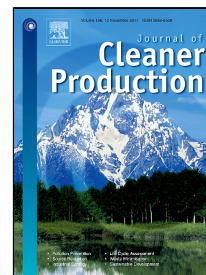


# Accepted Manuscript

Construction of a Novel Catalysis System for Clean and Efficient Preparation of Baohuoside I from Icariin Based on Biphase Enzymatic Hydrolysis

Yuping Shen, Haiyan Wang, Yi Lu, Lili Xu, Huawu Yin, Huan Yang, James P. Tam, Xiaobin Jia



PII: S0959-6526(17)32193-5  
DOI: 10.1016/j.jclepro.2017.09.192  
Reference: JCLP 10697  
To appear in: *Journal of Cleaner Production*  
Received Date: 11 May 2017  
Revised Date: 12 September 2017  
Accepted Date: 20 September 2017

Please cite this article as: Yuping Shen, Haiyan Wang, Yi Lu, Lili Xu, Huawu Yin, Huan Yang, James P. Tam, Xiaobin Jia, Construction of a Novel Catalysis System for Clean and Efficient Preparation of Baohuoside I from Icariin Based on Biphase Enzymatic Hydrolysis, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.09.192

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.

# **Construction of a Novel Catalysis System for Clean and Efficient Preparation of Baohuoside I from Icariin Based on Biphasic Enzymatic Hydrolysis**

Yuping Shen, Haiyan Wang, Yi Lu, Huawu Yin, Lili Xu, James P. Tam, Huan Yang, Xiaobin Jia

## **HIGHLIGHTS**

- Hydrolysis of Icariin and extraction of its secondary glycoside, Baohuoside I, were accomplished by a clean and efficient approach
- A novel catalysis system was constructed based on biphasic enzymatic hydrolysis for the first time
- The processing capacity of the novel system was determined to be 2.5 times that of conventional enzymatic hydrolysis
- An up to 85% conversion rate was achieved after the enzyme solution was used three times

Download English Version:

<https://daneshyari.com/en/article/5479257>

Download Persian Version:

<https://daneshyari.com/article/5479257>

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