

Basic Search and FullText Access from ACS publications

Revised since 22/11/2021



NUsearch

Go to <https://nusearch.nottingham.edu.my> and click on 'Sign in'

What are you looking for? 

Advanced search

All items ▾ with the words ▾ anywhere in the record ▾

Welcome to NUsearch Malaysia

There have been some changes to library eResources links.

For more information, visit our [news article](#).

Due to scheduled maintenance, NUsearch may be unavailable weekly **from 11pm Saturday to 2am Sunday**.

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[Need help?](#) is always available from the NUsearch menu, and further help and support can be found on the [Library website](#).

For any enquiries and assistance, please contact libraryservices@nottingham.edu.my

You may also drop-in to our [Chat with your librarian sessions](#) (Monday to Friday, 2pm-5pm) on MS Teams.

News

Free e-resources available during

NUsearch




What are you looking for?



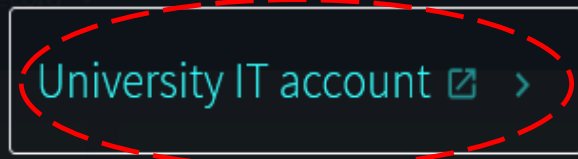
Advanced search

All items with the words anywhere in the

Sign in options

- University IT account  
- Community borrowers 

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Select "University IT account"


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Welcome to The University of Nottingham's
Malaysia Campus' Shibboleth IDP Service

Login to NUsearch Malaysia

Username

Password

Login



NUsearch Malaysia is the library search interface offered by the Malaysia campus at the University of Nottingham

Type in your **university username & password** and click on **Login**

Note: Please ensure that you are at the authentication page with **Malaysia URL link(.edu.my)**

NUsearch

What are you looking for?

All items ▾

with the words ▾

anywhere in the record ▾

Your name appeared on the top of the homepage indicates that you have successfully logged in to NUsearch. Then, click on “**Databases**”.

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Find databases X 


- 0-9 A B C D E F G H I J K L M **N** O P Q R S T U V W X
- Y Z Others

1 Type in the **full** or **partial name** of the **database** and click on magnifying glass icon to search

1 Results

Databases by category

- > Aerospace engineering
- > Biochemistry
- > Biology
- > Business and management
- > Chemical engineering
- > Chemistry

1 [ACS publications \[electronic resource\].](#)
Columbus, Ohio : American Chemical Society. 200?
[Available online](#) 

2 Once the database is found, then click on the **'Available online'** link to access it.

Results Per Page: 25 50

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the **ACS Publications**

postharvest treatment



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postharvest treatment



My Activity



Publications



REFINE SEARCH

PER PAGE: 20 50 100

SORT: RELEVANCE

Book Chapter	116
C&EN Article	66
Journal Article	1635

ARTICLE SUBJECT

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MORE (43)

PUBLICATION DATE

Last Year	91
Last 6 Months	53

1 2 3 4 5 6 7

Article

Effects of Postharvest Treatment and Heat Stress on Availability of Wheat Antioxidants

Zhihong Cheng, Lan Su, Jeffrey Moore, Kequan Zhou, Marla Luther, Jun-Jie Yin, and Liangli (Lucy) Yu

Journal of Agricultural and Food Chemistry 2006, 54, 15, 5623-5629
(Article)

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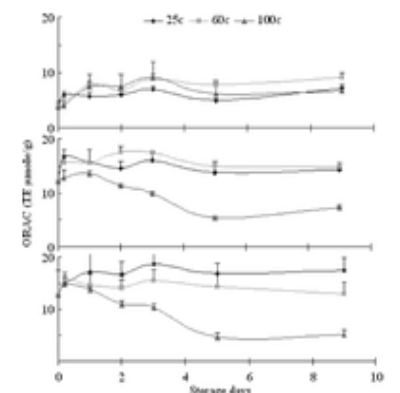
Publication Date (Web): June 23, 2006

DOI: 10.1021/jf060719b

Abstract

Full text

PDF



Click on the PDF icon to access the article

ABSTRACT



The file is ready to be saved and print

Effects of Postharvest Treatment and Heat Stress on Availability of Wheat Antioxidants

ZHIHONG CHENG,† LAN SU,† JEFFREY MOORE,† KEQUAN ZHOU,† MARLA LUTHER,† JUN-JIE YIN,‡ AND LIANGLI (LUCY) YU*,†

Department of Nutrition and Food Science, University of Maryland, College Park, Maryland 20742, and Instrumentation and Biophysics Branch, CFSAN, U.S. Food and Drug Administration, College Park, Maryland 20740

ber 22, 2021 at 06:36:41 (UTC).
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This research evaluated the effects of postharvest treatment and heat stress on the availability of wheat antioxidants using Ankor and Trego wheat varieties. The grain, bran, and 40-mesh bran samples of both Ankor and Trego wheat were kept at 25, 60, and 100 °C for 9 days. Samples taken at day 0, 1, 2, 3, 5, and 9 were extracted with pure ethanol and examined for antioxidant properties including the scavenging activity against peroxy (ORAC), cation ABTS, and 2,2-diphenyl-1-picrylhydrazyl (DPPH•) radicals, as well as total phenolic content (TPC) and phenolic acid composition. Both heat stress and postharvest treatment significantly altered the antioxidant properties of wheat grain fractions. The ORAC values of Ankor bran and corresponding 40-mesh bran samples kept at 100 °C for 9 days reduced to 61 and 40% of that at day 0 on a per dry weight basis, respectively, while the ORAC values of the grain samples showed no significant change. The overall loss of DPPH• scavenging