JST: ENGINEERING AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT



November 2024 Volume 34 Issue 5

GENERAL GUIDELINES

- The Journal of Science and Technology publishes research results with novel scientific and practical values in scientific research, technological transfer and production practice. The work described must not have been published in or submitted to other scientific journals.
- 2. Manuscript to be submitted must be prepared according to the journal's template.
- 3. All manuscripts will be double blind reviewed. Authors need to ensure that their manuscripts are prepared in a way that does not give away their identity.
- 4. The contribution and affiliation of each author in a paper should be clarified. One author should be assigned as the corresponding author.
- 5. Publications of results from research projects must have permission from the funding agencies and should include conforming acknowledgment.
- 6. Authors are requested to submit their manuscript and follow the review progress electronically by using the online submission system on the journal's web site.
- 7. The detail guidelines for authors and reviewers can be consulted on the journal's website.

No. 1, Dai Co Viet Str., Hai Ba Trung District, Hanoi, Vietnam Tel: (+84 24) 3623.0949 | email: jst@hust.edu.vn | website: https://jst.hust.edu.vn



Journal of Science and Technology

Engineering and Technology for Sustainable Development

Volume 34, Issue 5, November 2024

Deputy Editor-in-Chief

Prof. Dr. Dinh Van Phong Hanoi University of Science and Technology Vietnam

Advisory Board

Prof. Dr. Sci. Banh Tien Long - VASE, Vietnam
Prof. Dr. Sci. Dang Vu Minh - VUSTA, Vietnam
Prof. Dr. Sci. Ho Tu Bao - JAIST, Vietnam
Prof. Dr. Sci. Bui Van Ga - UDN, Vietnam
Assoc. Prof. Dr. Dang Hoai Bac - PTIT, Vietnam
Assoc. Prof. Dr. Mai Thanh Phong - HCMUT, Vietnam
Prof. Dr. Nguyen Duc Chien - HUST, Vietnam
Assoc. Prof. Dr. Huynh Quyet Thang - HUST, Vietnam

Editorial Board

Assoc. Prof. Dr. Lai Ngoc Anh, HUST, Vietnam Assoc. Prof. Dr. To Kim Anh, HUST, Vietnam Assoc. Prof. Dr. Do Van Dung, HCMUTE, Vietnam Assoc. Prof. Dr. Le Hieu Giang, HCMUTE, Vietnam Prof. Dr. Huynh Trung Hai, HUST, Vietnam Assoc. Prof. Dr. Vu Duy Hai, HUST, Vietnam Prof. Dr. Bui Anh Hoa, HUST, Vietnam Prof. Dr. Nguyen Duc Hoa, HUST, Vietnam Prof. Dr. Nguyen The Hung, UDN, Vietnam Prof. Dr. Le Kim Hung, UDN, Vietnam Dr. Nguyen Thanh Hung, HUST, Vietnam Prof. Dr. Kozo Ishizaki, NUT, Japan Assoc. Prof. Dr. Preechar Karin, KMITL, Thailand Prof. Dr. Hyungsun Kim, Inha University, Korea Prof. Dr. Jae-chun Lee, KIGAM, Korea Prof. Dr. Tran Van Nam, UDN, Vietnam Prof. Dr. Nguyen Thanh Nam, HCMUT, Vietnam Assoc. Prof. Dr. Truong Quoc Phong, HUST, Vietnam Assoc. Prof. Dr. Le Thi Kim Phung, HCMUT, Vietnam Prof. Dr. Le Minh Phuong, HCMUT, Vietnam Assoc. Prof. Dr. Hoang An Quoc, HCMUTE, Vietnam Assoc. Prof. Dr. Iman K. Reksowardojo, ITB, Indonesia Prof. Dr. Olivier Sename, Grenoble INP, France Prof. Dr. Le Minh Thang, HUST, Vietnam Assoc. Prof. Dr. Nguyen Xuan Thao, HUST, Vietnam Assoc. Prof. Dr. Hoang Trang, HCMUT, Vietnam Prof. Dr. Vu Van Yem, HUST, Vietnam

Supported by

Hanoi University of Science and Technology
Ho Chi Minh City University of Technology
Ho Chi Minh City University of Technology and Education
Posts and Telecommunications Institute of Technology
University of Danang

CONTENTS

1.	Optimal Extraction and Spray-Drying Anthocyanin from Perilla Frutescens			
	Hoang Thi Ngoc Nhon, Nguyen Thi Que Tran, Nguyen Minh Phuc, Tran Thi Huyen Linh, Le Thi Hong Anh*			
	Food Science and Technology, Ho Chi Minh City University of Industry and Trade, Ho Chi Minh City, Vietnam			
2.	Improvement of Gel Properties of Salt-Reduced Fish Sausage by Adding Food Additives	11		
	Do Thi Yen*, Nguyen Thi Dieu Trang, Nguyen Thi Thanh Ngoan School of Chemistry and Life Science,			
	Hanoi University of Science and Technology, Ha Noi, Vietnam			
3.	Study on Determining Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonic Acid (PFOS) in Fishery Products			
	Bui Kim Hoan ¹ , Do Thi Thu Hang ² , Kieu Thi Lan Phuong ² , Luu Thi Huyen Trang ² , Do Thi Hong Thuy ² , Tran Cao Son ² , Vu Hong Son ^{1*}			
	School of Biotechnology and Food Technology,			
	Hanoi University of Science and Technology, Ha Noi, Vietnam ² National Institute for Food Control, Ha Noi, Vietnam			
4.	Investigation of Consumer Insights and Development of Alternative Protein-Rich Products from Alcoholic Beverage Byproducts	27		
	Nguyen Minh Quan, Nguyen Thi Thao, Nguyen Tien Cuong* School of Chemistry and Life and Sciences,			
	Hanoi University of Science and Technology, Ha Noi, Vietnam			
5.	Impact of Temperature and Frying Time on Colour, Texture, and Physicochemical Properties of Wheat-Taro Snack	35		
	Nhan Minh Tri ^{1*} , Trang Thi Hoang Quyen ¹ , Nguyen Thi Thuy Hong ² ¹ Department of Postharvest Technology, Institute of Food and Biotechnology, Can Tho University, Can Tho, Vietnam			
	² Faculty of Mechanical Engineering,			
	Can Tho University of Technology, Can Tho, Vietnam			
6.	Simulation of Freezing and Defrosting Processes on Solid Surfaces			
	Vo Chi Chinh ¹ , Vu Huy Khue ^{2*}			
	¹ The University of Da Nang, Da Nang City, Vietnam			
	² Hanoi University of Science and Technology, Ha Noi, Vietnam			
7.	Research on Establishing a Foot Sizing System for Women with Diabetes as a Basis for Shoe Design	50		
	Bui Van Huan*			
	Hanoi University of Science and Technology, Ha Noi, Vietnam			

JST: Engineering and Technology for Sustainable Development

Volume 34, Issue 5, November 2024

8. Social and Environmental Accounting for Sustainable Development and Potential Research in Vietnam 60

Nguyen Thi Phuong Dung^{1*}, Nghiem Ngoc Anh²
¹School of Economics and Management,
Hanoi University of Science and Technology, Ha Noi, Vietnam
²SGS Viet Nam Company Limited, Ha Noi, Vietnam