

7th International Conference on Food, Agriculture, and Natural Resources (IC-FANRes 2022)

Advances in Biological Sciences Research Volume 35

Changsha, China
24 - 25 November 2022

ISBN: 978-1-7138-8244-2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Print copyright© (2023) by Atlantis Press (part of Springer Nature)
All rights reserved.
Copyright for individual electronic papers remains with the authors.

For permission requests, please contact the publisher:

Atlantis Press
Van Godewijkstraat 30
3311GX Dordrecht
The Netherlands

contact@atlantis-press.com

Printed with permission by Curran Associates, Inc. (2024)

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Detection of Sugar Apple (<i>Annona squamosa</i> L.) Ripeness Based on Physical and Chemical Properties Using the K-Nearest Neighbor (k-NN) and Random Forest Algorithm 4 <i>Murad, Joko Sumarsono, Sukmawaty, Amni Aulia, Syahroni Hidayat</i>	4
Partial Substitution with Heat-Moisture Treated Sweet Potato (<i>Ipomoea Batatas</i> L.) Flour to Wheat Flour Affecting Physicochemical and Organoleptic Characteristics of Pan Bread..... 20 <i>Wilbur Donald Raymond Pokatong, Febiana Christy</i>	20
Effect Of Coating Material Ratio And Spray Dryer Inlet Temperature On The Characteristics Of Butterfly Pea Flower (<i>Clitoria ternatea</i> L.) Extract Microcapsules 37 <i>Eunike Budiman, Tagor M. Siregar</i>	37
The Quality and Chemical Composition of Eggs Derived From Kampung Unggul Balitbangtan (KUB) Crossed with Merawang and Murung Panggang Local Chickens 58 <i>A. D. Anggita, E. Wahyuni, D. Maharani, Nurliyani</i>	58
Characteristics of Fruit Wine from Several Types of Banana with Various Types of Yeast..... 71 <i>Melanie Cornelia, Vanessa, Titri S. Mastuti, Reynaldi Kurniawan</i>	71
Ethanolic Extraction of Lemongrass in a Scaled-Up Laboratory Percolator..... 85 <i>Diah Indriani Widiputri, Bennedick Donato, Maria DPT Gunawan-Puteri, Filiana Santoso, Elena Listianto Lie</i>	85
Inhibition of ACC _o (1-aminocyclopropane 1-carboxylic acid oxidase) Activity of Mango by Modified Atmosphere Storage..... 99 <i>E. Basuki, A. Alamsyah, I W. S. Yasa</i>	99
Halal Food Standards in Indonesia: A Study of Young Muslim Consumers' Perceptions and Religiosity 108 <i>Tasya Chairuna Pane, Muhammad Khaliqi</i>	108
The Application of Nata de coco-based Coatings to Fresh-cut Jackfruits during Refrigerated Storage.....119 <i>I Wayan Sweca Yasa, Eko Basuki, Ahmad Alamsyah, Lingga Gita Dwika Sari</i>	119
The Best Combination of Gas Sensor and Machine Learning Classification Algorithm in Detecting Mango (<i>Mangifera indica</i> L.) Quality 130 <i>Joko Sumarsono, Murad, Ida Ayu Widhiantari, Syahroni Hidayat, Ulfah Mediaty Arief, Tatyantoro Andrasto</i>	130
Analysis of Technological Feasibility in The Development of Potato Chips Business with Cabinet Type Greenhouse Effect Dryers..... 143 <i>Siti Asmaul Mustaniroh, Herlina Krisna Br. Manurung, Widya Wijayanti</i>	143
Analysis of pH Value and Color of Palm Sap (<i>Arenga pinnata</i> Merr) during Storage 157 <i>Ansar, Nazaruddin, Atri Dewi Azis</i>	157
Design and Constructions Preeing Machine Compost Block from Organic Waste with Hidraulic System 165 <i>Amuddin, Ida Ayu Widhiantari, Rosyid Ridho, Fakhrol Irfan Khalil, Wahyudi Zulfikar</i>	165
Temperature and Humidity Control using Nextion 3.2 HMI in the Natural Greenhouse 173 <i>Sirajuddin Haji Abdullah, Joko Sumarsono, Gagassage Nanaluh Side, Asih Priyati</i>	173

Consumer Acceptance of Herbal Tea Brewing Based on The Infusion Time and Ratio of Cascara: Dayak Onion.....	187
<i>Dian Hasni, Cut Nilda, Murna Muzaiifa, Dini Fadhillah, Syafina Asra, Dedy Rahmad</i>	
Identification of Nitrogen Content of Vernonia amygdalina Leave Based on Artificial Neural Network Modeling	198
<i>Sandra, Retno Damayanti, Mochamad Bagus Hermanto, Rut Januar Nainggolan, Danuh Kanara Anta, Arini Robbil Izzati, Siska Ratna Anggraeni, Mitha Saadiyah</i>	
The Performance of a Modified Dehumidifier Drying Machine for Peanut Seeds (<i>Arachis Hypogaea</i> L.) Drying.....	208
<i>Bambang Susilo, Mochamad Bagus Hermanto, Retno Damayanti, Pipit Elok Nikmatus Sholikah</i>	
Mass and Energy Balance Analysis of The Animal Feed Industry in Sidenreng Rappang Regency (Case Study: CV Cahaya Mario Feed Mill).....	222
<i>Yanna Yahya, Mahmud Achmad, Iqbal</i>	
Physical Characteristic Analysis of Shells Coconut Briquette	236
<i>Ansar, Diah Ajeng Setiawati, Murad, Baiq Sulasi Muliani</i>	
Application of Hygiene and Sanitation in The Hairtail Fish Freezing Industry	243
<i>Ratri Retno Utami, Andi Nur Amalia, M. Ardhias Syam, Rahmad Wahyudi, Rachma Ramadhanty Tabri</i>	
Optimized Digital Webcam with Hungry Roach Infestation Optimization to Monitor the Drying Process of Cassava Chips	251
<i>Yusuf Hendrawan, La Choviya Hawa, Retno Damayanti, Dimas Firmanda Al Riza, Mochamad Bagus Hermanto, Sandra Malin Sutan</i>	
Pumpkin Enriched Shirataki Noodle as A Low Calorie and Nutritious Functional Food.....	272
<i>Zainuri, Hartanti, Dody Handito</i>	
Physical And Sensory Quality of Canned “Rarang” Chicken Under Sterilization Time Difference	282
<i>Baiq Rien Handayani, Afrisha Sekar Namira, Mutia Devi Ariyana, Moegiratul Amaro, Tri Isti Rahayu, Asep Nurhikmat</i>	
The Design and Performance of Maggot Harvester	291
<i>Mochamad Bagus Hermanto, Retno Damayanti, Yusuf Hendrawan, Himatul Yusril Muna, Muhamad Dimas Febriawan, Faiz Aminul Hikam, Nabila Intan Milania, Ahmad Mu'minin Fauzi Elfamas</i>	
Test of Consistency, Hardness, And Water Absorption on Innovative Planting Media (Block Compost) As A Solution for Utilization of Oyster Mushroom Baglog Waste	301
<i>Rosyid Ridho, Asih Priyanti, Joko Sumarsono, Qabul Dinanta Utama, Tina Afriana, Deas Fitriani Sahrani Jayadi, Rupita Shohipatul Khaini</i>	
Application of the Natural Antimicrobial Kayu Purut (<i>Dysoxylum parasiticum</i>) to Delay Arenga Sap (<i>Arenga pinnata</i> sap) Decay	309
<i>R. Widyasari, B. D. Argo, A. Lastriyanto, S. Wijana, K. Yuniarto</i>	
Organoleptic Quality Analysis of Retort Pouch Vacuum Packaged Chicken with Different Sterilization Time	316
<i>M. Amaro, M. D. Ariyana, B. R. Handayani, N. Nazaruddin, S. Widyastuti, T. I. Rahayu, W. H. Putri</i>	

Utilization of Yellow Sweet Potato (<i>Ipomoea batatas</i>) and Butterfly Pea Flower (<i>Clitoria ternatea</i>) Juice to Increase Antioxidants of Cookies.....	324
<i>S. Cicilia, A. Alamsyah, I. W. Sweca Yasa</i>	
Combination Activity of Lactic Acid Bacterial Culture to Improve Quality of Honey Pineapple Yoghurt Enriched with Seaweed <i>Eucheuma spinosum</i>	331
<i>Tri Isti Rahayu, Baiq Rien Handayani, Mutia Devi Ariana, Moegiratul Amaro, Yesica Marcelina Romauli Sinaga</i>	
Development of Functional Sausage Based on Corn Starch and Moringa Flour with The Addition of Mocaf (Modified Cassava Flour) and Porang Flour.....	341
<i>Satrijo Saloko, Siska Cicilia, Lara Mahya Adila</i>	
Rice Noodle (Vermicelli) Characteristics Made from Local Cultivar Red Rice and Corn Starch.....	353
<i>Dody Handito, I Wayan Sweca Yasa, Satrijo Saloko, Desy Wulandari</i>	
Effect of The Combination of Polishing and Dry Milling Method on Black Glutinous Rice Flour Characteristics	361
<i>Riezka Zuhriatika Rasyda, Tjahja Muhandri, Slamet Budijanto</i>	
Physicochemical Properties of Retort Pouch Packaged Rembiga Satay with Various Sterilization Time.....	370
<i>Mutia Devi Ariyana, Baiq Rien Handayani, Moegiratul Amaro, Tri Isti Rahayu, Neta S. Afriliya, Sri Widyastuti, Nazaruddin, Firman Fajar Perdhana, Yesica Marcelina Romauli Sinaga, Asep Nurhikmat</i>	
Sensory Quality of Sate Rembiga in A Retort Pouch Packaging with Different Sterilization Time.....	379
<i>Mutia Devi Ariyana, Baiq Rien Handayani, Moegiratul Amaro, Tri Isti Rahayu, Neta S. Afriliya, Sri Widyastuti, Nazaruddin, Firman Fajar Perdhana, Yesica Marcelina Romauli Sinaga, Asep Nurhikmat</i>	
Detection of Pathogenic Bacteria in Shrimp Paste through an Enrichment Stage Using Nutrient Broth Medium	388
<i>Firman Fajar Perdhana, Mutia Devi Ariyana, Lalu Unsunnidhal, Muhammad Aidil Febriandito, Lalu Ahmad Wirayuda, Muhammad Aidil Fitriyan Fadjad Suryadi, Lulu Diani Zuhdia</i>	
Effect of Cooling Rate and Agitation on Fat Crystallization: A Mini-review.....	395
<i>Qabul Dinanta Utama, Dewa Nyoman Adi Paramartha, Made Gendis Putri Pertiwi, Riezka Zuhriatika Rasyda, Firman Fajar Perdhana, Lalu Unsunnidhal, Rosyid Ridho, Lalu Danu Prima Arzani</i>	

Author Index