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Associate professor

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Academic History

- Bachelor in Agricultural Technology, Universitas Gadjah Mada, Indonesia (1992 – 1997)
- Graduate Diploma in Robotics and Automation, Swinburne University of Technology, Australia (2003 – 2004)
- Master of Development Technologies, The University of Melbourne, Australia (2004 – 2004)
- Doctoral in Agricultural Engineering, Universitas Gadjah Mada, Indonesia (2007 – 2013)

Professional Experience

- Lecturer at Universitas Gadjah Mada, Indonesia (1999 – present)
- Head of Doctoral Program at the Department of Agricultural and Biosystems Engineering, Universitas Gadjah Mada, Indonesia (2021 – present)

Visiting Scholar Experience

- Visiting researcher at National Agriculture and Food Research Organization (NARO), Tsukuba, Japan (2008 – 2009)
- Visiting scholar at Nondestructive Bio-Sensing Laboratory, Dept. of Biosystems Machinery Engineering, College of Agriculture and Life Science, Chungnam National University, Republic of Korea (2019)
- Visiting scholar at Department of Forest and Soil Sciences, University of Natural Resources and Life Sciences, Vienna (2022)
- Visiting scholar at Nondestructive Bio-Sensing Laboratory, Dept. of Biosystems Machinery Engineering, College of Agriculture and Life Science, Chungnam National University, Republic of Korea (2023)
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Publications (last three years 2022-2024)

No	Title	Name of publications	Vol/ No/Th
1.	Detection Of Fusarium Spp. Infection in	Journal: Open	9 (1), 2024

	Potato (Solanum Tuberosum L.) During Postharvest Storage Through Visible–Near-Infrared and Shortwave–Near-Infrared Reflectance Spectroscopy	Agriculture, 20220295	
2.	Evaluation Of Indonesian Local Soybean Based on Chemical Characteristics and Visible-Near Infrared Spectra with Chemometrics	Journal: BIOTROPIA 63-75	31 (1), 2024
3.	Determination of the Betacyanin and Betaxanthin Contents of Red Beet (Beta Vulgaris) Powder Using Partial Least Square Regression Based on Visible-Near Infrared Spectra	Journal: Trends in Sciences 7639	21 (5), 2024
4.	Vis/NIR Reflectance Spectroscopy for Non-Destructive Diagnosis of Fusarium Spp. Infection in Postharvest Potato Tubers (Solanum Tuberosum)	Proceeding: IOP Conference Series: Earth and Environmental Science 012012	1317 (1), 2024
5.	Profiling And Classification of Black Tea, White Tea, And Green Tea (Camellia Sinensis L.) By Vis-NIR Spectroscopy	Journal: AIP Conference Proceedings	2957 (1), 2024
6.	Effect of Plant Biostimulants on Red and Green Romaine Lettuce (Lactuca Sativa) Growth in Indoor Farming	Journal: IOP Conference Series: Earth and Environmental Science 012008	1297 (1), 2024
7.	Effect of Varying Color LED Lights on Porang (Amorphophallus muelleri) Bulbil Seed Germination and Porang Plant Vegetative Growth Phase	Proceeding: BIO Web of Conferences, 07003	80, 2023
8.	Performance of A Portable NIR Spectrometer to Distinguish Coffee Species Based on Qualitative Chemometric and Artificial Neural Network (ANN) Models	Proceeding: BIO Web of Conferences, 06007	80, 2023
9.	Identification of Maturity Stage of Cacao using Visible Near Infrared (Vis-NIR) and Shortwave Near Infrared (SW-NIR) Reflectance Spectroscopy	Proceeding: BIO Web of Conferences, 06003	2023
10.	The Rapid Detection of The Infected Seedlings of Amorphophallus Muelleri Using Visible Near-Infrared Spectroscopy	Journal: Food Research, 289-296	7 (4), 2023
11.	Development of PCA-MLP Model Based on Visible and Shortwave Near Infrared Spectroscopy for Authenticating Arabica Coffee Origins	Journal: Foods, 2112	12 (11), 2023
12.	Prediction of Rhodamine B Dye Content in Chilies Paste Using VIS-NIR Spectroscopy	Book chapter: Key Engineering Materials, 49-56	949, 2023
13.	Determination of Green and Red Spinach Microgreen Chlorophyll Content Using Visible	Proceeding: IOP Conference Series: Earth	1183 (1), 2023

	Spectroscopy and Wavelength Selection	and Environmental Science, 012049	
14.	Non-Destructive Evaluation of Soluble Solid Content in Fruits with Various Skin Thicknesses Using Visible-Shortwave Near-Infrared Spectroscopy	Journal: Open Agriculture, 20220183	8 (1), 2023
15.	Necessity of Log (1/R) and Kubelka-Munk Transformation in Chemometrics Analysis to Predict White Rice Flour Adulteration in Brown Rice Flour Using Visible-Near-infrared Spectroscopy	Journal: Food Science and Technology	43, 2023
16.	Visible-Near-Infrared Spectroscopy and Chemometrics for Authentication Detection of Organic Soybean Flour	Journal: Pertanika Journal of Science & Technology	31 (2), 2023
17.	Application of Visible and Shortwave Near Infrared Spectroscopy Combined with PCA-LDA and PLS-DA to Distinguish Sirloin and Shank Beef	Proceeding: 3rd International Conference on Smart and Innovative Agriculture (ICoSIA 2022) 392-399	2023
18.	Bibliometric Analysis on Recent Advances and Development of Microcontroller Application in The Postharvest System	Journal: Journal Ilmiah Rekayasa Pertanian dan Biosistem 201-220	11 (2), 2023

Presentation title: Non-destructive evaluation of food and agricultural products using spectroscopy methods