

Phirunrat Thaisamak

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1. Education

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| 2010 | Bachelor Degree in Food Engineering Program, Maejo university, Thailand |
| 2013 | Master Degree in Food Engineering Program, Maejo university, Thailand |
| 2020 | Doctoral Degree in Food Engineering Program, Maejo university, Thailand |



2. Work Experiences

- Research assistant and staff of organic fertilizer Engineering 1 method learning station, Maejo university
- Research assistant in project of operation cost reduction for industrial pepper drying, this project support by Thailand science research and innovation
- Research assistant in project of development of prototype extractor of high purity phycocyanin from Spirulina platensis
- Staff of Food engineering program, preparation the SAR report of master and doctor degree since 2016-2020 (SAR based on AUN-QA)
- Speaker of graduate school in topic of integrated thesis & research management system
- Nov 2021 to Dec 2021: Lecturer in topic of DESIGN EXPERT (Response surface methodology, RSM) for graduate student of Asian Development College for Community Economy and Technology (adicet), Chiang Mai Rajabhat University, Thailand
- 2021 to 2023 Project coordinator, K2M Consultant & Services Co., Ltd.
- 2023 Lecturer in Food Science and Technology Management at Rajamagala University of Technology Thanyaburi, Thailand



3. Publications

1. Phirunrat Thaisamak, Wipa Teppinta, Chanawat Nitatwichit, Jatuphong Varith and Somkiat Jaturonglumert. (2013). Fixed deep bed drying of black pepper: A comparative study between a normal airflow and reverse airflow. *Journal of Agricultural Research and Extension*. 30(3)(Suppl.), 68-79.
2. Wipa Teppinta, Jatuphong Varith, Somkiat Jaturonglumert, Phirunrat Thaisamak and Chanawat Nitatwichit. (2013). Operation cost reduction for industrial pepper powder drying with alternative hot-air during drying process. *Journal of Agricultural Research and Extension*. 30(3)(Suppl.), 80-87.
3. Thaisamak, P., Jaturonglumert, S., Varith, J., Taip, F. S. & Nitatwichit, C. (2019). Kinetic model of ultrasonic-assisted extraction with controlled temperature of C-phycoerythrin from *S. Platensis*. *International Journal of GEOMATE*, 16(55), 176-183.
4. Thaisamak, P., Jaturonglumert, S., Varith, J., Narkprasom, K. & Nitatwichit, C. (2020). Effect of combined between microbubble and ultrasonic of C-phycoerythrin extraction from *S. platensis*. *International Journal of GEOMATE*, 18(65), 124-131.
5. Suriwong, V., Jaturonglumert, S., Varith, J., Narkprasom, K., Tanongkankit, Y., Nitatwichit, C. and Thaisamak, P. (2021). Thai Creamed Honey: Enthalpy of Crystal Melting and Texture Profile under Different Storage Conditions. *International Food Research Journal*, 27(5), 936-944.
6. Voraluck Suriwong, Somkiat Jaturonglumert, Phirunrat Thaisamak, Sakawduan Kaewdam. (2021). Effect of Dehydration Method on Quality of Longan Honey, *Burapha Science Journal*, 26(3) 1420-1437.
7. Somkiat Jaturonglumert, Pisinee Suasubphan, Voraluck Suriwong, Sakawduan Kaewdam, Phirunrat Thaisamak. (2021). Development Of Gas-fired Infrared Tunnel Dryer With Airflow Reversal Technique. *Eng.J.CMU*. 28(2), 31-41.



4. Training Experience

- Food Safety Management System and FDA GMP HACCP HALAL FSSC by Advanced Outsource Management Co., Ltd..
- Interpretation Requirement of ISO 9001:2015, Internal Audit and Management Review of ISO9001:2015, Risk Assessment of ISO 9001:2015 by NTP consultant group on 29–31 March 2020
- ISO 9001:2015 Requirement and Interpretation by SGS Academy on 10 June 2022
- ISO 9001: 2015 Internal Audit by SGS Academy on 16–17 June 2022

5. Research experience

Year 2021

- Project mentor of Development of real time moisture tracking for organic rice paddy in solar green house project. Under Social Innovation Driving Unit (SID-N1). Funding source: National Innovation Agency (NIA)

Year 2022

- Project mentor of Premium Khao Kam Doi Saket Organic Village. Funding source: Ministry of Higher Education, Science, Research and Innovation.

Year 2023

- Project mentor of Development of real time moisture tracking for sugarcane production of Baan Rai plant. Under Social Innovation Driving Unit (SID AT-UN). Funding source: National Innovation Agency (NIA)
- Project mentor of Development of real time moisture tracking for garlic and herbal product. Under Social Innovation Driving Unit (SID AT-UN). Funding source: National Innovation Agency (NIA)

Year 2022

- Gold Medal: International Session – Open Research Track in Management, Energy and Other Related Topics Theme during the FENETT 2022 Online International & National Conference held in Chiang Mai, Thailand on April 4, 2022. Topic: Development of real time moisture tracking for organic rice paddy in solar green house.
- Bronze Medal: International Session – Graduate in Management, Energy and Other Related Topics Theme during the FENETT 2022 Online International & National Conference held in Chiang Mai, Thailand on April 4, 2022. Topic: Development of biofertilizer application method for organic strawberry cultivation using micro-mist generator