CHAYAPA YIENGVEERACHON

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99/208 Perfect place, Onnut
Latkrabang, Rachatewa,Bangplee,
Samutprakarn 10540

Ph.D. student of the transport phenomena laboratory, dedicated knowledge in a fluid dynamic, curious and eager in process development, seeking a position as institute researcher or educational staff

EDUCATION

PhD

Tokyo Institute of Technology, September 2021
Chemical Science and Engineering
Dissertation**:** "*Modeling of membrane cross-flow filtration process of protein-polysaccharide natural suspension*"
Advisor: Associated Professor Yoshikawa Shiro

MS Tokyo Institute of Technology, September 2018
Chemical Science and Engineering
Thesis: "*Separation of Protein in Coconut by means of Cross-flow Ultrafiltration*"
Advisor: Associated Professor Yoshikawa Shiro

BS Chulalongkorn University, Food Technology March 2014

FELLOWSHIPS

The Mitsubishi UFJ Trust Foundation Scholarship 2019-2021
Founded by The Mitsubishi UFJ Trust Bank for supporting approximately 27 international students a year studying in Japan.

Kobayashi Foundation Scholarship 2016-2019
Founded by Kobayashi Seiyaku Company for supporting approximately 55 Asia students a year studying in Japan.

RESEARCH EXPERIENCE

Dissertation, Tokyo Institute of Technology, Tokyo 2021
Advisor: Yoshikawa Shiro

- Evaluated and optimized the process condition and improved the filtration performance by modified the feed suspension electrostatic property

- Proposed a novel mathematical model for predicting the filtration behavior of a natural biopolymer suspension by using coconut skimmed milk as a prototype suspension.

PUBLICATIONS

Journal Publication

C. Yiengveerachon, S. Yoshikawa, H. Matsumoto, and S. Ookawara, "Characteristics of coconut protein separation process by means of membrane ultrafiltration," *J Food Process Eng*, vol. 43, no. 4, Apr. 2020, doi: 10.1111/jfpe.13363.

Conference Paper

C. Yiengveerachon, S. Yoshikawa, H. Matsumoto, and S. Ookawara, "Cross-flow Ultrafiltration of Aqueous Solution of Coconut Protein," presented at the Regional Symposium on Chemical Engineering, Makati, Philippines, 2018.

SEMINARS

MIRAI short course for PhD – Sustainability, Hiroshima, Kyoto, Tokyo 2018
Topic: "Membranes for a sustainable water cycle

LANGUAGES

Thai: Native Language

English: Intermediate Listener, Speaker and Writing, Advanced Reading

Japanese: Intermediate Listener, Speaker, Reading and Writing at N2 level proficiency (scale of N5 to N1)

COMPUTER SKILLS

Microsoft offices: Advance
MATLAB: Basic
Computational fluid dynamic: Basic

OTHER

Note: One of the scheduled publications has been suspended. Research materials inevitably become unavailable because of the pandemic crisis, which leads to the insufficiency of experimental results.