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Position: Lecturer

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Education background

2014 Bachelor of Science (First Class Honors), Food Science and Technology, PSU
Thailand

2020 Doctoral of Philosophy, Food Science and Technology, PSU Thailand

Expertise: Food processing and engineering, membrane technology

Awards and Scholarships

2015 Full scholarship, RGJ PhD Program (PHD/0190/2557) by Thailand Research Fund
Research grant from AMTEC, UTM, Malaysia

2016 PhD research grant by Graduate school, PSU, Thailand

2017 Travel award from CEMST, PSU and LPE Company to attend the 34th EMS Summer
School 2017 (“Membrane in Biorefinery Process”), Lund University, Sweden

Travel award from CEMST, PSU Thailand to attend the 13th Membranes Science
and Technology International conference (MST), Semarang, Indonesia

2019 Research grant from Computational Fluid Dynamic (CFD) Research group, TU,
Austria

2020 Travel award from Membrane Society of Australasia to attend 7 th Membrane
Society of Australasia Early Career Researcher Symposium (MSA-ECR2020) at
Sydney, Australia

Conferences proceeding/attending

2017 Tippawan Sirinupong, Wirote Youravong, Dusida Tirawat and Woei Jye Lau, Forward
osmosis for concentration of fruit juice, The 34th European Membrane Society (EMS)
Summer School 2017, Membranes in Biorefineries, 26-30 June 2017, Lund
University, Sweden

Tippawan Sirinupong, Wirote Youravong, Dusida Tirawat and Woei Jye Lau, Forward Osmosis Performance Evaluation of Self-Synthesized and Commercial Thin Film Composite Membrane, The 13 th Membrane Science and technology international conference, 16 Nov 2017, Semarang, Indonesia

2019 Tippawan Sirinupong, Wirote Youravong, Dusida Tirawat and Woei Jye Lau, CFD Simulation in Forward Osmosis of Fruit juice, The 5th Computational Science Summer School 2019, 25-29 March 2019, Prince of Songkhla university, Phuket Campus, Thailand

2020 Tippawan Sirinupong, Benjamin Lukitsh, Baharm Haddadi, Michael Harasek , Woei Jye Lau, Dusida Tirawat and Wirote Youravong, Mass Transfer Simulation in Forward Osmosis The 7th Membrane Society of Australasia Early Career Researcher Membrane Symposium (MSA-ECR 2020), 1-2 Feb 2020, University of Technology Sydney, Australia.

Tippawan Sirinupong, Benjamin Lukitsh, Baharm Haddadi, Michael Harasek , Woei Jye Lau, Dusida Tirawat and Wirote Youravong, Computational Fluid Dynamic Simulation in Forward Osmosis, International Membrane Science and Technology Conference (IMSTEC2020), 2-6 Feb 2020, University of Technology Sydney, Australia.

Research experience

1. Forward osmosis for concentration of Mao (*Antidesma bunius* L. Spreng) juice
2. Concentration of pineapple juice using forward osmosis (FO): Effects of draw solution and membrane on process performance, membrane fouling and physicochemical properties of concentrated juice. (On going)

Publications / outputs

Tippawan Sirinupong, Wirote Youravong, Dusida Tirawata, Woei Jye Lau, Gwo-Sung Lai, Ahmad Fauzi Ismail. 2018. Synthesis and Characterization of Thin Film Composite Membranes Made of PSF- TiO₂/GO Nanocomposite Substrate for Forward Osmosis Applications, Arabian Journal of Chemistry. 11(7). 1144 – 1153

Tippawan Sirinupong, Dusida Tirawat, Woei Jye Lau and Wirote Youravong. 2020. Vibration-assisted forward osmosis process for Mao (*Antidesma Bunius* L. Spreng.) juice concentration: Water flux enhancement and preservation of phytochemicals, International Food research Journal, 27(6), 1156-1166

Zhen-Shen Liew, Yeek-Chia Ho, Woei Jye Lau, Wirote Youravong, **Tippawan Sirinupong**

and Yong Yeow Liang. 2023. Investigations on membrane performance for coconut water concentration under pressure and by osmotically driven process, J Chem Technol Biotechnol, 1-6.