

# THUNWADEE SUKSAROJ

# ชันวดี สุขสาโรจน์

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# PROFESSIONAL APPOINTMENT

Associate Professor ASEAN Institute for Health Development, Mahidol University (Thailand)	Present
ADMINISTRATIVE APPOINTMENT	
Director ASEAN Institute for Health Development, Mahidol University (Thailand)	2024 - Present
Executive Secretary ASEAN University Network for Health Promotion (AUN-HPN)	Present
Carbon footprint Assessor Thai Carbon Labels	2009 - Present
Consultant Cleaner technology and green productivity in Agro-industries	2009 - Present
<b>Technical Manager</b> Environemntal Operating Center (ISO/IEC17025 Certified), Faculty of Environmental Management, Prince of Songkla University.	2009 - 2016
EDUCATION	
Dr.Sc. (Industrial Science and Biological Process: Food Science) Université Montpellier, France	2006
M.Sc. Environmental Technology	2002

1999

# **EXPERTISE / AREAS OF RESEARCH INTEREST**

B.Sc. Public Health (Environmental Health Science) with a second- class honor

- Environmental Technology and Biotechnology
- Environmental Health

Mahidol University, Thailand

Mahidol University, Thailand

### WORK AND RESEARCH EXPERIENCE

Lecturer 2016 - Present

ASEAN Institute for Health Development, Mahidol University

Adjunct Researcher 2021

National Chung Hsing University, Taiwan

**Lecturer** 2002 - 2016

Faculty of Environmental Management, Prince of Songkla University.

#### **PUBLICATIONS LIST**

- **Suksaroj TT.,** Jha NK., Chuanpongpanich S., Siriraksophon W., Kwanyuen B., Suksaroj C. Strategy development for domestic water use reduction in special economic zone of Thailand through water user perception and factor analysis. Environmental and Sustainability Indicators, 2024, 21:100344. https://doi.org/10.1016/j.indic.2024.100344.
- Pant A., **Susaroj T**., Janmaimool P., Laosee O., Rattanapan C., Resilience capacity of pre-hospital emerdency medical service (EMS) providers and the future agenda for sustainable development of a resilient EMS system in Thailand. Asia Pacific Journal of Health management. 2024, 19(2):i3899.
- Suksaroj, C., Jearat, K., Cherypiew, N., Rattanapan, C., **Suksaroj, T.T.** Promoting circular economy in the palm oil industry through biogas codigestion of palm oil mill effluent and empty fruit bunch pressed wastewater. Water (Switzerland), 2023,15(12): 2153.
- Ounsaneha, W., Laosee, O., Suksaroj, T.T, Rattanapan, C. Combined Impact of Omicron Vaccination and Environmental Risk Exposure: A Thailand Case Study. Vaccines, 2023, 11(2):297.
- Ounsaneha, W., Laosee, O., **Suksaroj, T.T,** Rattanapan, C. Preventive Behaviors and Influencing Factors among Thai Residents in Endemic Areas during the Highest Epidemic Peak of the COVID-19 Outbreak. International Journal of Environmental Research and Public Health, 2023,20(3):2525.
- Ounsaneha, W., Rattanapan, C., **Suksaroj, T.T,** Kantachote, D., Klawech, W., Rakkamon, T. Biogas production by co- digestion of municipal wastewater and food waste: Performance in semi-continuous and continuous operation. Water Environment Research, 2021, 93(2): 306-315.
- Saritsiri S, Mongkolchati A, **Suksaroj T.** (2021). Prevalence of chronic kidney disease and related factors among diabetic patients in primary care, Bangkok, Thailand. Journal of Public Health and Development. 19(1), 1-18
- Wai KH, **Tachapattaworakul Suksaroj T.** (2020). Food sanitation of salad vending in the markets of Nay Pyi Taw, Myanmar. Journal of Public Health and Development. 11(4), 165-169
- **Suksaroj T.T,** Yaeed S, Suksaroj C. (2020). The effect of POME ultrasonication on biogas production and reduction of greenhouse gases emissions from wastewater treatment units of palm oil mills. Desalination and water treatment. 202: 86-94

- Tejativaddgana P, Suriyawongpaisan W, Kasemsup V, **Suksaroj T.** (2020). The roles of village health volunteers: COVID-19 prevention and control in Thailand. Asia Pacific of Health Management. 15(3), i477
- Sae-Ngae S, Cheirsilp B, Louhasakul Y, **Suksaoj T.T.** Intharapat P. (2020). Techno-economic analysis and environmental impact of biovalorization of agro- industrial wastes for biodiesel feedstocks by oleaginous yeasts. Sustainable Environmental Research. 30(1): 11
- Ounsaneha W, Laosee O, **Suksaroj T.T**, Srisamai P, Rattanapan C. (2020). Tourist Behavior of Plastic Waste Reduction in the Coastal Area of Trang Province, Thailand. International Journal of Environmental Science and Development. 11(4): 165-169
- Rattanapan C, **Suksaroj T.T**, Ounsaneha W. (2019). Choice of Food Waste Management for a Large Vegetable Market in Thailand. International of Environmental Science and Development. 10(3): 100-103
- Manandhar S, **Suksaroj T.T**, Rattanapan C. (2019). The Association between Green Space and the Prevalence of Overweight/ Obesity among Primary School Children. International Journal of Occupational and Environmental Medicine. 10(1): 1-10
- Taecharungroj V, **Suksaroj T.T**, Rattanapan C. (2018). The place sustainability scale: measuring residents' perceptions of the sustainability of a town. Journal of place management and development. https://doi.org/10.1108/JPMD-04-2017-0037
- Chaivisit P, Fontana A, Galindo S, Strub C, Choosong T, Kantachote D, **Suksaroj T.T.** (2018). Airborne bacteria and fungi distribution characteristics in natural ventilation system of the university hospital in Thailand (2018). Environment Asia. 11(2): 53-66
- Yaeed S, **Suksaroj T.T**, Suksaroj C. (2017). Mechanical pretreatment processes for enhancement of biogas production from palm oil mill effluent (POME). Desalination and water treatment. 1-7, doi:10.5004/dwt.2017.20258
- Rahim FK, **Suksaroj T**, Jayasvasti I (2016) Social determinant of Health of Adult Smoking Behavior: Differences between Urban and Rural Areas in Indonesia. National Public Health Journal. 11 (2): 51-55 DOI:10.21109/kesmas.v11i2.1237.
- Junpadit P, **Suksaroj T.T**, Boonsawang P (2016). Transformation of Palm Oil Mill Effluent to Terpolymer Polyhydroxyalkanoate and Biodiesel Using Rummeliibacillus pycnusStrain TS8. Waste Biomass Valor. DOI 10.1007/s12649-016-9711-1
- Ophithakorn T, Sabah A, Delalonde M, Bancon-Montigny C, **Suksaroj T T** and Wisniewski C (2016) Organotins' fate in lagoon sewage system: dealkylation and sludge sorption/desorption. Environmental Science and Pollution Research 23(22):22832-22842.
- Siriraksophon S, Musikavong C, Suksaroj C and **Suksaroj T T** (2016) Evolution of pretreatment methods for nanofiltration membrane used for dissolved organic matter removal in raw water supply. EnvironmentAsia 9(2):10-17. DOI 10.14456/ea2016.3
- Musikavong C., Srinuang K., **Suksaroj T.T.** and Suksaroj C. (2016) Formation of trihalomethanes of dissolved organic matter fractions in reservoir and canal waters. Journal of Environmental Science and Health Part A Toxic/Hazardous Substances & Environmental Engineering 51(9):1-10.

- Rattanapana C., **Suksaroj T.T.,** Chumpikul J. and Choosong T. (2014) Health Risk Assessment of Hydrogen Sulfide Exposure among Workers in a Thai Rubber Latex Industry. Environmentasia, 7(1): 25-31.
- Ophithakorn T, Suksaroj C. and Suksaroj T.T. (2013) Simulation modeling of dissolved organic matter removal in a free water surface constructed wetland. Ecological Modelling 258:82-90.
- Musikavong C., Inthanuchit K., Srinuang K., **Suksaroj T.T.** and Suksaroj C. (2013) Reduction of fractionated dissolved organic matter and their trihalomethane formation potential with enhanced coagulation. Scienceasia 39: 56-66.
- Rattanapan C., **Suksaroj T.T.**, Wongsawass S., Ounsaneha W. (2013) Measure on Ecoefficiency of Thai Growing-Fishing Pig Farms. Int J Environ Sci Dev,4(5): 533-537.
- Muadchim M., **Suksaroj T.T.**, Rattanapan C., Suksaroj C. (2012) Biogas production and biochemical methane potential of anaerobic co-digestion from pretreated biodiesel processing wastewater and decanter cake. Thai Environmental Engineering Journal, 26(1): 15-23.
- Ounsaneha W., **Suksaroj T.T.** and Chamondusit K. (2012) Selection of the sustainable area for rubber plantation of Thailand by eco-efficiency. Procedia social and behavioral sciences. Special issue under peer review and the responsibility of the Asia Pacific Business Innovation and Technology Managemen Society.
- Rattanapan C., **Suksaroj T.T.** and Ounsaneha W. (2012) Development of ecoefficiency indicators for rubber glove product by material flow analysis. Procedia social and behavioral sciences. Special issue under peer review and the responsibility of the Asia Pacific Business Innovation and Technology Managemen Society.
- Rattanapan C., Sawain A., **Suksaroj T.** and Suksaroj C. (2011) Enhanced efficiency of dissolved air flotation for biodiesel wastewater treatment by acidification and coagulation process. Desalination (280) 370-377.
- Banchaoattanasakda W., Musikavong C., **Tachapattaworakul T.** and Suksaroj C. (2011) Reduction of dissolved organic matter and trihalomethane formation potential in raw water supply reservoir by hybrid ultrafiltration process. Journal of water supply: research and technologyAqua (6038) 494-500.
- Kueseng T., **Suksaroj T.T.**, Musikavong C. and Suksaroj C. (2011) Enhanced coagulation for removal of dissolved organic matter and trihalomethane formation potential from raw water supply in Sri-trang reservoir, Thailand. Water practice and Technology, 6(1) online: doi:10.2166/WPT.2011.002.
- Kananam W., **Suksaroj T.T.**, Suksaroj C. (2011) Biochemical changes during oil palm (Elaeis guineensis) empty fruit bunches composting with decanter sludge and chicken manure. Scienceasia 37:17-23.
- Saeng, C., Cheirrsilp, B., **Tachapattawearakul**, **T.** and Bourtoom, T. (2011) Efficient concomitant production of lipids and carotenoids by oleaginous red yeast Rhodotorula glutinis cultured in palm oil mill effluent and application of lipids for biodiesel production, Biotech. Bioprocess Eng., 16(1):23-33

- Saeng, C., Cheirrsilp, B., **Tachapattawearakul**, **T.** and Bourtoom, T. (2011) Potential use of oleaginous yeast Rhodotorula glutinis for the bioconversion of crude glycerol from biodiesel plant to lipids and carotenoids. Process Biochemistry, 46(1):210-218
- **T. Tachapattaworakul,** A. Fontana-Tachon, J.P. Guiraud, and R. Ratomahenina. (2008) Application of benomyl resistance and RAPD-PCR for detecting a Trichoderma atroviride strain used as biocontrol agent. Biological Agricultural & Horiculture, 25(4):367-377.

#### **TEXTBOOK**

• Environmental Health: Aspects, Impacts and Management. Nakhon Pathom: ASEAN Institute for Health Development, 2018. ISBN 978-616-443-224-6: 173 p.

#### RESEARCH COOPERATION FOR GRADUATE STUDENT

Hospital indoor air quality management

Funder: ERAMUS- MUNDUS/PANACEA PROJECT Host: UMR Qualisud, Université Montpellier, France

Activity: PhD Student research Internship and manuscript development

• Simulation modeling of micropollutants removal in wastewater treatment plant

Funder: Ministry of Education, Thailand

Host: Laboratoire de Physique Moléculaire et Structurale

UFR des Sciences Pharmaceutiques et Biologiques, Université Montpellier I, France

Activity: PhD Student research Internship and manuscript development

Palm oil mill wastewater treatment by physic-chemical processes

**Funder**: FRANCO-Thai scholarship **Host**: IEM, Montpellier II, France

Activity: PhD Student research Internship and manuscript development

Sustainability of Alternative Energy Production Technologies

Funder: Technology Grant

Host: Institute of System Sciences, Innovation and Sustainability Research (ISIS),

University of Graz, Austria

Activity: PhD Student research Internship

• Contribution of food insecurity to malnutrition in the form of stunted growth in children and overweight or obesity in mothers

Funder: Postgraduate Student Mobility Program

**Host**: Teikyo University, Japan **Activity**: Master Student Internship

 Assessment of the Food Waste Problem and it's solutions along Food Supply Chain: A Comparative Study in Thailand and Guatemala

**Funder**: National ChungHsing University, Taiwan **Host**: NationalChungHsing University, Taiwan

**Activity**: Co-Thesis Advisor

• The Effect of Dietary Behavior Change Program for Community Dwellers with Type 2 Diabetic Mellitus at Diabetes Schools, Thailand

Funder: Graduate School, Mahidol University and Chulabhorn Royal Academy

Host: Jutendo University, Japan

Activity: PhD Student research Internship

• Redefining and measuring resiliency of pre-hospital emergency medical service system

**Funder**: Mahidol Student Mobility Fund **Host**: Macquarie University, Australia **Activity**: PhD Student research Internship