

## Dr. Ukrit Jaroenkietkajorn

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### EDUCATIONAL BACKGROUND

- Year A.D. 2021 Ph.D. (Environmental Technology), King Mongkut's University of Technology Thonburi, Thailand
- Year A.D. 2016 M.Eng. (Advanced and Sustainable Environmental Engineering International Scholarship Program), TAIST-Tokyo tech and Kasetsart University, Thailand
- Year A.D. 2014 B.Eng. (Food Engineering) with Second Class Honours, Kasetsart University, Thailand

### RESEARCH FOCUS

Impacts on land use, biodiversity impact assessment, ecosystem services, and life cycle assessment

### ACADEMIC BACKGROUND

April 2024 – Present The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi, Bangkok, Thailand

May 2018 – March 2024

Assistant Researcher, The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi, Bangkok, Thailand

- National Life Cycle Inventory Database for Sustainable Development: The database (Cradleto-Gate) of Sugarcane, Sugar Industry and Continuous Value Chain
- Cost and Life Cycle Assessment of the Energy Production from Municipal Solid Waste in Thailand
- Sustainability assessment of oil palm value chain and refinery systems for food, fuel, and other valuable products in Thailand (Phase II)

August 2015 – August 2016

Assistant Researcher, National Metal and Materials Technology Center (MTEC)

### CERTIFICATIONS

- GMP & HACCP Guidelines and Implementation study course on January 26th to 27th, 2013
- 2<sup>nd</sup> Outstanding results learning, Faculty of Food Engineering, Kasetsart University [2013]

### PUBLICATIONS

International Journal

- Jaroenkietkajorn, U., Mahapokai, S., Wichchukit, S. (2018). "Effect of pectin and gellan gum on particles and added solids' stability in drinking fermented goat milk". *Journal of Food Science and Agricultural Technology*, 4(Spcl. Iss.), 1-6.

- Jaroenkietkajorn, U., Gheewala, S.H. (2020). “Interlinkage between Water-Energy-Food for Oil Palm Cultivation in Thailand”. *Sustainable Production and Consumption*. 22, pp. 205-217, <https://doi.org/10.1016/j.spc.2020.03.006>.
- Jaroenkietkajorn, U., Gheewala, S.H. (2021). “Land Suitability Assessment for Oil Palm Plantations in Thailand”. *Sustainable Production and Consumption*, 28, pp. 1104-1113, <https://doi.org/10.1016/j.spc.2021.07.031>.
- Jaroenkietkajorn, U., Gheewala, S.H. (2021). “Understanding the impacts on land use through GHG-Water-Land-Biodiversity nexus: A case study of oil palm plantation in Thailand”. *Science of the Total Environment*, 800, 149425, <https://doi.org/10.1016/j.scitotenv.2021.149425>.
- Jaroenkietkajorn, U., Gheewala, S.H., Scherer, L. (2021). “Species loss from land use of oil palm plantations in Thailand”. *Ecological Indicators*, 133, 108444, <https://doi.org/10.1016/j.ecolind.2021.108444>.
- Jaroenkietkajorn, U., Gheewala, S.H., Mungkung, R., Jakrawatana, N., Silalertruksa, T., Lecksiwilai, N., Prasara-A, J. and Nilsalab, P. (2024). “Challenges and Opportunities of Bio-Circular-Green Economy for Agriculture”. *Circ.Econ.Sust*, <https://doi.org/10.1007/s43615-024-00355-9>.

#### International Conference

- Jaroenkietkajorn, U., Mungkalasiri, J., Soralump, C., Suksatit, P. (2015). “Review of Environmental Sustainability Assessment for Animal Feed Industry in Thailand”. The 5th International Conference on Green and Sustainable Innovation and the 5th ITICHe International Conference. p. O-47.
- Jaroenkietkajorn, U., Gheewala, S.H. (2018). Water-Food-Energy nexus assessment of oil palm plantation in Thailand”. Proceeding of the 7th International Conference on Sustainable Energy and Environment “Technology & Innovation for Global Energy Renovation” (pp. 343-346).