

JUTARAT KEAWBOONCHU

Lecturer | Environmental Science & Sustainability

EDUCATION

Ph.D. Environmental Technology
Mahidol University, Thailand, 2023

M.Sc. Environmental Technology
Mahidol University, Thailand, 2019

B.Sc. Chemistry
King Mongkut's University of Technology Thonburi, 2014

CONTACT

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https://scholar.google.com/citations?user=QEcJPXwAAAAJ&hl=en

RESEARCH INTERESTS

- Air pollution management
- VOCs emission assessment
- Atmospheric dispersion modeling
- Emission inventory development
- ESG & sustainability

ABOUT ME

Lecturer at the Faculty of Public Health, Mahidol University. Expertise in air pollution, VOC emission control, and sustainable industrial development, with a focus on emission inventory and atmospheric modeling. Collaborates with academic and industrial partners for science-based environmental sustainability solutions.

EXPERIENCE

Lecturer | Faculty of Public Health, Mahidol University, Thailand [2025 – Present]

- Teaching and conducting interdisciplinary research in environmental technology, public health, and sustainability.
- Developing academic programs and collaborating with national and international research partners.

Lecturer | Faculty of Engineering and Technology, Siam Technology College, Thailand [2025]

- Teaching and conducting research in environmental and industrial management.

Researcher & Project Coordinator | Industrial Environmental Projects [2019-2024]

- Coordinating environmental research and consultancy projects with major industrial organizations, including IRPC, PTT, SCG, and EGAT.
- Developing emission inventories, conducting atmospheric modeling, and supporting industrial air pollution management.

RESEARCH PUBLICATIONS

- Jindamanee et al. (2025). Environmental impacts and emission profiles of volatile organic compounds from petroleum refineries. Scientific Reports.
- Jindamanee et al. (2024). Manifesting the hidden pollutants: Quantifying emissions and environmental impact of petroleum refinery on PM2.5. Atmospheric Environment: X.
- Sirawat et al. (2023). Comprehensive Analysis of City Carbon Footprint from Energy Consumption in Thailand. EnvironmentAsia.
- Keawboonchu et al. (2023). Integrated Sustainable Management of Petrochemical Industrial Air Pollution. International Journal of Environmental Research and Public Health.
- Pinthong et al. (2022). Characteristics and Impact of VOCs on Ozone Formation Potential in a Petrochemical Industrial Area, Thailand. Atmosphere.
- Jookjantra et al. (2022). Formation potential and source contribution of secondary organic aerosol from volatile organic compounds.
- Saikomol et al. (2021). Characteristics and Dispersion Modeling of VOCs Emission Released from the Tank Farm of Petroleum Refinery Complex. EnvironmentAsia.
- Keawboonchu et al. (2019). Effect of the waste heat recovery system to buoyancy and momentum flux of combustion stack in the cement industry.
- Malakan et al. (2018). Comparison of AERMOD performance using observed and prognostic meteorological data. EnvironmentAsia.