



TARINEE BUADIT

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EDUCATION

Ph.D. (Environment and Resource Studies (International Program)) 2017 - 2023
Faculty of Environment and Resource studies, Mahidol University

M.Sc. (Appropriate Technology for Resources and Environmental Development) 2010 - 2013
Faculty of Environment and Resource studies, Mahidol University

B.Sc. (Environment Science and Technology) 2006 - 2009
Faculty of Environment and Resource studies, Mahidol University

EXPERTISE / AREAS OF RESEARCH INTEREST

- Life Cycle Assessment
- Environmental Management
- Sustainable Development
- Greenhouse Gas Evaluation & Management

WORK AND RESEARCH EXPERIENCE

Working Experiences

Instructor 2024 - Current
ASEAN Institute for Health Development, Mahidol University

Research Assistant 2014 - 2021
ASEAN Institute for Health Development, Mahidol University

Teacher Assistant/Research Assistant 2012 - 2014
Faculty of Environment and Resource Studies, Mahidol University

Research Experiences

Principal Investigator 2024 - Current
Appropriate Model of Health Service System toward Sustainability and Integration for the Central Part of Thailand by Life Cycle Impact Assessment

Co-Researcher 2024 - Current

Environmental impact assessment of broiler chicken farms in Kanchanaburi Province using life cycle assessment

Research Assistant 2020 - 2021

Sustainable Supply Chain Management of the Tyre Industry in Thailand by Enhancing Green Productivity with Value Chain Analysis

Research Assistant 2018 - 2019

Appropriate Model for Plastic Waste Management in Coastal Province toward Stakeholder integration and Sustainability: Case Study of Trang Province

Research Assistant 2017 - 2018

Option of Sustainable Food Waste Management for Large Fresh Markets of Thailand

Research Assistant 2017 - 2018

Enhancement of Green Productivity for Sustainable Supply Chain Management of Tire Industry in Thailand by Value Chain Analysis

Research Assistant 2016 - 2017

Study of approach for enhancing urban development to sustainable city with participation: a case study for Salaya city, Nakhon Pathom

Research Assistant 2016

Enhancement of Green Productivity for Sustainable Supply Chain Management of Dairy Cooperatives in the Central of Thailand by Value Chain Analysis

Research Assistant 2014 - 2015

Direction Determination of Economic Crop Plantation in the Southern of Thailand toward Sustainable Development by Eco-efficiency with Ecological Footprint

Research Assistant 2014 - 2015

Eco-efficiency Best Practice of Sugar Cane Production Industry for Sustainable Development by Benchmarking

Research Assistant 2013 - 2014

Socio-economic and Health Status Evaluation for the Tourism Development in Western Part of Thailand Towards the Capability of Dawei Special Economic Zone

PUBLICATIONS LIST

International Publication

- **Tarinee Buadit**, Sayam Aroonsrimorakot, Kampanad Bhaktikul and Patana Thavipoke. Biogas Production and Greenhouse Gases Reduction from Wastewater at Mahidol University, Salaya campus, Thailand. SciVerse ScienceDirect APCBEE Procedia, 2013, Vol 5, pp.169-174.
- Sayam Aroonsrimorakot, Chumporn Yuwaree, Chumlong Arunlertaree, Rungjarus Hutajareorn, **Tarinee Buadit**. Carbon Footprint of Faculty of Environment and Resource Studies, Mahidol

University, Salaya Campus, Thailand. SciVerse ScienceDirect APCBEE Procedia, 2013, Vol 5, pp.175-180.

- **Tarinee Buadit**, Cheerawit Rattanapan, Achara Ussawarujikulchai, Krisda Suchiva, Seksan Papong, and Hwong-Wen Ma. Life Cycle Assessment of Material Recovery from Pyrolysis Process of End-of-Life Tires in Thailand. International Journal of Environmental Science and Development, 2020, vol. 11, no. 10, pp. 488-498.
- **Tarinee Buadit**, Achara Ussawarujikulchai, Krisda Suchiva, Seksan Papong, Hwong-wen Ma, and Cheerawit Rattanapan, Environmental impact of passenger car tire supply chain in Thailand using the life cycle assessment method. Sustainable Production and Consumption, 2023, Volume 37, pp. 156-168. [Q1, Top10]
- **Tarinee Buadit**, Achara Ussawarujikulchai, Krisda Suchiva, Seksan Papong, and Cheerawit Rattanapan, Green productivity and value chain analysis to enhance sustainability throughout the passenger car tire supply chain in Thailand. Journal of Open Innovation: Technology, Market, and Complexity, 2023, 9(3), 100108. [Q1]
- Srija Thapa, Yusuke Toyoda, Orapin Laoee, Piyapong Janmaimool, Tarinee Buadit, Nattaneeporn Noisangiam, Cheerawit Rattanapan, Factors associated with household flood preparedness in Songkhla old town Thailand, Progress in Disaster Science, Volume 26, 2025,100441, <https://doi.org/10.1016/j.pdisas.2025.100441>. [Q1]

National Publication

- Sayam Aroonsrimorakot, Chumporn Yuwaree, Chumlong Arunlertaree, Rungjarus Hutajareorn and **Tarinee Buadit**. Carbon Footprint of Central Canteen of Mahidol University Salaya Campus, Thailand. Journal of Agr. Research & Extension, Office of Agricultural Research and Extension, Maejo University, 2013, Vol 30 No.3 (Suppl.), pp.49-55.

PROCEEDINGS

- **Tarinee Buadit**, Sayam Aroonsrimorakot, Kampanad Bhaktikul and Patana Thavipoke. The comparison on greenhouse gases generation form oxidation pond and extended aeration activated sludge wastewater treatment plant of Mahidol University, Salaya Campus. The 9th Kasetsart University Kamphaeng Saen Campus Conference: Engineering, Science Technology and Environment, 6-7 December 2012, pp. 324-332
- Sayam Aroonsrimorakot, Chumporn Yuwaree, Chumlong Arunlertaree, Rungjarus Hutajareorn and **Tarinee Buadit**. Carbon Footprint of Dormitories at Mahidol University, Salaya Campus, Thailand. The 3rd International Congress of Interdisciplinary Research and Development, 30-31 May 2013, pp. 9.1-9.5
- Sayam Aroonsrimorakot and **Tarinee Buadit**. Carbon Footprint of Honda Automobile (Thailand) Co.,Ltd.(Sales & Service). The 3rd International Congress of Interdisciplinary Research and Development, 30-31 May 2013, pp. 71.1
- Sayam Aroonsrimorakot, Thititorn Boonrueng, Penphan Pongsayan, and **Tarinee Buadit**. Industrial Hygiene Evaluation of Oil Rig Module Construction Associated with Chemical Utilization and Work

Practices. The 4th International Congress on Interdisciplinary Research and Development, 30 - 31 May 2014, pp.111.1

- Cheerawit Rattanapan, Thunwadee Suksaroj, Weerawat Ounsaneha, and **Tarinee Buadit**. Greenhouse Gas Emission of Sugar Mill Process in Thailand. The Fifth Annual Asian Conference on Sustainability, Energy and the Environment (ACSEE2015), 11 – 14 June 2015, Art Center of Kobe, Kobe, Japan.
- Weerawat Ounsaneha, Thunwadee Suksaroj, **Tarinee Buadit**, and Cheerawit Rattanapan. Carbon Footprint of Rubber Plantation in the Southern Part of Thailand. Proceedings of 24th ISERD International Conference, Seoul, South Korea, 13th January 2016, ISBN: 978-93-82702-10-8, pp. 29-32
- Weerawat Ounsaneha, **Tarinee Buadit**, and Cheerawit Rattanapan. Clean Technology for a Sugar Cane Industry in Thailand. International Conference on Engineering and Natural Science – Summer Session, Kyoto, Japan, 12-14 July 2016.
- Cheerawit Rattanapan, Weerawat Ounsaneha, Thunwadee Suksaroj, and **Tarinee Buadit** Green Productivity of Dairy Farms in the Central of Thailand. International Conference on Engineering and Natural Science – Summer Session, Kyoto, Japan, 12-14 July 2016.
- Weerawat Ounsaneha, **Tarinee Buadit**, and Cheerawit Rattanapan. Assessment of human health impact based on life cycle assessment: A case study of Thai retread tire. IOP Conference Series: Materials Science and Engineering, 2020, vol.773. no.1. International Conference on Materials Research and Innovation, Bangkok, 16-18 December, 2019.
- Tin Soe Oo, Cheerawit Rattanapan, Piyapong Janmaimool, Orapin Laosee, **Tarinee Buadit**. Socio-Ecological Determinants of Dengue Preventive Practices among Myanmar Migrants in Samut Sakhon Province, Thailand. The 15th International Graduate Students Conference on Population and Public Health Sciences (IGSCPP), 12 June 2024, pp.264-272.

INTERSHIP

- Environmental Systems Analysis Laboratory, Graduate Institute of Environmental Engineering, Nation Taiwan University during 1 May -31 July 2019 (3 Months) supported by Scholarship for Postgraduate Student Mobility Program 2019, International Relations Division, Office of the President, Mahidol University

RESEARCH GRANTS

- Strategic Research Fund granted by Mahidol University

2024

AWARDS AND HONORS

- The Dean's List Award (Academic Year 2013) from the Faculty of Graduate Studies, **2015**
- Outstanding Thesis Awards Promoting *Mahidol* University's SDGs Policies from the Faculty of Graduate Studies, Mahidol University **2024**