



TRAN THI PHUONG QUYNH

陳氏芳瓊

Lecturer

CONTACT



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No. 19 Nguyen Huu Tho Street,
Tan Phong Ward, District 7, Ho Chi Minh City, Vietnam

LANGUAGES

- Vietnamese (Native)
- English (Fluent)
- Mandarin (Elementary)

EXPERTISE

- Semiconductor wastewater treatment and recovery
- Optimization
- Microwave-enhanced advanced oxidation processes
- Low-cost disinfectant

WORKING EXPERIENCES

Head of Department of Environmental Science (10/2023 - present)

Full-time Lecturer (2015 - present)

Ton Duc Thang University

Faculty of Environment and Labour Safety

- **Teaching subjects assigned by the Faculty:** Environmental Technology Process; Chemistry of Environmental Engineering; Environmental Analysis; Introduction to Environmental Engineering and Science; Computational methods in Environmental Engineering.
- **Supporting students** to practice their careers and guide the implementation of graduation projects.
- **Scientific Committee** at the 4th International Conference on Environmental Technology and Innovations (ICETI 2023, Vietnam).

Internship (03/2015 - 09/2015)

Holcim Vietnam Ltd Company, Ho Chi Minh City, Vietnam

Sustainable Development Department

Collaborator (12/2014 - 09/2015)

Ton Duc Thang University

Center for Occupational Safety and Environmental Technology

Internship (11/2013 - 03/2015)

Ton Duc Thang University

Faculty of Environment and Labour Safety

EDUCATION

National Taiwan University
Graduate Institute of Environmental Engineering

71 Chou-Shan Rd., Taipei 106, Taiwan

Doctoral program in Environmental Engineering
09/2017 - 11/2021

Ming Chi University of Technology
Department of Safety, Health and Environmental Engineering

84 Gungjuan Rd., Taishan Dist., New Taipei City 24301, Taiwan

Master program in Environmental Engineering
10/2015 - 07/2017

Ton Duc Thang University
Faculty of Environment and Labour Safety

19 Nguyen Huu Tho St., Tan Phong Ward, District 7, Ho Chi Minh City, Vietnam

Engineer Program in Environmental Science
09/2011 - 09/2015

Ton Duc Thang University
Center for Occupational Safety and Environmental Technology

19 Nguyen Huu Tho St., Tan Phong Ward, District 7, Ho Chi Minh City, Vietnam

Health – Safety – Environment Certificate
2014 - 2015

SKILLS

- TOC (Total Organic Carbon)
- GC-FID (Gas Chromatography-Flame Ionization Detection)
- CCD-RSM (Central Composite Design-Response Surface Methodology)

AWARDS

December 2021

Young Talent Award, Water Affairs Organization, Taiwan

November 2020

Taipei Tienmou Rotary Club scholarship, Taiwan

November 2019

Living grant for international graduate students of 2019 CTCI foundation science and technology scholarship, Taiwan

September 2019 - August 2020

Financial assistance grant for international students – NTU, Taiwan

October 2018

CSEAS (Southeast Asian Education Center) scholarship, Taiwan

September 2018 - August 2019

Financial assistance grant for international students – NTU, Taiwan

October 2017

CSEAS (Southeast Asian Education Center) scholarship, Taiwan

2017

Medal and Certificate of Merit "Ms Tran Thi Phuong Quynh, a graduate of the Master's Program in Environmental Engineering in 2017, was ranked the first in her class", MCUT Taiwan

Certificate of Achievement for the first among 20 in the first three semesters of college in Master's Program in Environmental Engineering, Ming Chi University of Technology, Taiwan

2016

Certificate of Achievement for Excellence in Master's Program in Environmental Engineering, Ming Chi University of Technology, Taiwan

PUBLICATIONS

- The Utilization of Chicken Egg White Waste-Modified Nanofiber Membrane for Anionic Dye Removal in Batch and Flow Systems: Comprehensive Investigations into Equilibrium, Kinetics, and Breakthrough Curve. Yun-Rou Chen, Dinh Thi Hong Thanh, **Quynh Thi Phuong Tran**, Bing-Lan Liu, Penjit Srinophakun, Chen-Yaw Chiu, Kuei-Hsiang Chen, and Yu-Kaung Chang. *Membranes* (2024), 14(6), 128 (<https://doi.org/10.3390/membranes14060128>).
- Investigating the associations between organophosphate flame retardants (OPFRs) and fine particles in paired indoor and outdoor air: A probabilistic prediction model for deriving OPFRs in indoor environments. Quang-Oai Lu, Chien-Cheng Jung, How-Ran Chao, Pei-Shih Chen, Chia-Wei Lee, **Quynh Thi Phuong Tran**, Jyun-Yi Ciou, Wei-Hsiang Chang. *Environment International* (2023), 174, 107871 (<https://doi.org/10.1016/j.envint.2023.107871>).
- Study on antibacterial properties of heated oyster-shell particle against *Bacillus subtilis* spores in rainwater by response surface methodology based on central composite design. **Quynh Thi Phuong Tran**, Balamurugan Ananthakrishnan, Hsin-hsin Tung. *Journal of Water and Health* (2023), 21(3), 372–384 (<https://doi.org/10.2166/wh.2023.278>).
- Optimizing the recovery process of ceramic grade calcium fluoride from hydrofluoric/hexafluorosilicic acid wastewater. **Quynh Thi Phuong Tran**, Po-Hsun Lin. *Journal of Cleaner Production* (2022), 333, 130125 (<https://doi.org/10.1016/j.jclepro.2021.130125>).
- Degradation Kinetics and Pathways of Isopropyl Alcohol by Microwave-Assisted Oxidation Process. **Quynh Thi Phuong Tran**, Yi-Hsueh Chuang, Steve Tan, Chi-Hsu Hsieh, Tung-Yu Yang, and Hsin-hsin Tung. *Industrial & Engineering Chemistry Research* (2021), 60(34), 12461–12473 (<https://doi.org/10.1021/acs.iecr.1c01464>).
- Optimization of isopropyl alcohol degradation by microwave-induced catalytic oxidation process. **Quynh Thi Phuong Tran**; Chi-Hsu Hsieh; Tung-Yu Yang; Hsin-hsin Tung. *Water Reuse* (2019), 9(3), 213–224 (<https://doi.org/10.2166/wrd.2019.015>).
- A synergistic effect between gluconate and molybdate on corrosion inhibition of recirculating cooling water systems. Hsin-Hung Ou, **Quynh Thi Phuong Tran**, Po-Hsun Lin. *Corrosion Science* (2018), 133, 231-239 (<https://doi.org/10.1016/j.corsci.2018.01.014>).

INTERNATIONAL CONFERENCES/WORKSHOPS

- Low-cost Adsorbent Derived from Rice Husk: Preparation and Application to Remove Ca²⁺ and Mg²⁺ in artificial hard water. Nguyen Ka Thy, Pham Thi Hong Nga, Lu Yen Oanh, Nguyen Hoang Oanh, Dang My Thanh and Quynh Thi Phuong Tran*. The 4th International Conference on Environmental Technology and Innovations, Vietnam, November 2023 - Oral presentation.
- Converting Waste into Value-added Materials: Preparation and Application of a Low-Cost Adsorbent Derived from Clam Shells for Removal of Hardness. Value-added Materials: Preparation and Application of a Low-Cost Adsorbent Derived from Clam Shells for Removal of Hardness. Dao Nguyen Song Oanh, Chau Khanh Bang, Ho Minh Tu, Dang My Thanh and **Quynh Thi Phuong Tran***. *Asian Conference on Crisisonomy*, Korea, July 2023 - Oral presentation.
- Microwave-assisted heterogeneous catalytic oxidation for isopropyl alcohol wastewater treatment. **Tran Thi Phuong Quynh**, and Hsin-Hsin Tung. *International Workshop on Advanced Environmental Microbiology*, Vietnamese-German University, Vietnam, April 2023 - Poster.
- IoT-based smart water quality monitoring system: A case study in Vietnam. **Tran Thi Phuong Quynh**. *Knowledge Transfer Meeting and Workshop II ASEAN IVO 2021 Project*, Ton Duc Thang University, Vietnam, February 2023 - Oral presentation.
- Vietnam_IoT applications in water supply. **Tran Thi Phuong Quynh**. *International Workshop on the Research Network Creation of IoT for Community Water Supply Production*, Thailand, August 2022 - Oral presentation.
- Highly efficient isopropyl alcohol removal by microwave-induced catalytic oxidation process. **Tran Thi Phuong Quynh**, and Hsin-hsin Tung. *WEF-EESS Conference on Advancement in Water and Wastewater Treatment and Reuse*, Singapore, 2019 - Oral presentation.

REFERENCE

Hsin-hsin Tung, PhD

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Po-Hsun Lin, PhD

Associate Professor, Graduate Institute of Environmental Engineering, National Central University, Taiwan

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