



Curriculum Vita
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EDUCATION

Ph.D., Marine Environmental Science and Technology, National Kaohsiung University of Science and Technology, Taiwan, 2021

M.S., Environmental Management, Vietnam National University Ho Chi Minh City, Vietnam, 2013

B.S., Environmental Engineering, Ho Chi Minh City University of Technology, Vietnam, 2008

TEACHING EXPERIENCE

Instructor (online teaching), Department of Technology, Dong Nai Technology University, 2013-present

PUBLICATIONS

1. Hoang, H. G., Chacha, W. E., Binh, Q. A., Mukherjee, S., Jiang, Y., Zhang, T., et al. (2026). Biotechnologies for removal of per-and polyfluoroalkyl substances (PFAS) in biosolids: Current status and challenges. *Journal of Environmental Management*, 404, 129237.
2. Hoang, H. G., Hadi, M., Nguyen, M. K., Lin, C., Nguyen, N. S. H., Bui, H. M., Tran, H. T., et al. (2026). Regional assessment of heavy metal-related ecological risks in the Houjing River sediments in Taiwan: A study using indexes and Extreme Gradient Boosting model. *Regional Studies in Marine Science*, 104901.
3. Hoang, H. G., Nguyen, N. S. H., Zhang, T., Tran, H. T., Mukherjee, S., & Naidu, R. (2025). A review of microplastic pollution and human health risk assessment: Current knowledge and future outlook. *Frontiers in Environmental Science*, 13, 1606332.
4. Hoang, H. G., Hadi, M., Nguyen, M. K., Nguyen, N. S. H., Le, P. Q. H., Nguyen, K. N., et al. (2025). Assessing heavy metal pollution levels and associated ecological risks in peatland areas in the Mekong Delta region. *Environmental Research*, 274, 121319.

5. Pham, D. T., Hoang, H. G., & Thuy, B. T. P. (2025). Avocado seed, coconut fiber, and vinegar residue blended composite biodegradable bioplastic film development: Agricultural waste management approach. *Biomass Conversion and Biorefinery*, 15(10), 14779–14790.
6. Nguyen, M. K., Lin, C., Hung, N. T. Q., Nguyen, H. L., Hoang, H. G., Tran, H. T., & Hadi, M. (2025). Biochar and engineering applications in remediation of heavy metal pollutants from wastewater toward sustainable development. In *Low Cost Water and Wastewater Treatment Systems: Conventional and Recent Developments*.
7. Hoang, H. G., Tran, H. T., Nguyen, M. K., Nguyen, N. S. H., & Thuy, B. T. P. (2024). Investigating the polyethylene degradation mechanism using docking and molecular dynamics simulations. *Environmental Science and Pollution Research*, 31(56), 64857–64869.
8. Tran, H. T., Hoang, H. G., Chacha, W. E., Mukherjee, S., Duong, T. V. H., et al. (2024). A review of advanced bioremediation technologies for dioxin-contaminated soil treatment: Current and future outlook. *Chemosphere*, 366, 143400.
9. Nguyen, N. K., Schroll, R., Dörfler, U., Suhadolc, M., Gerhard, W., Tecimen, H. B., et al. (2024). Linkage between glyphosate adsorption/desorption and mineralization in Central European agricultural soils. *Applied Geochemistry*, 169, 106049.
10. Tran, H. T., Binh, Q. A., Tung, T. V., Pham, D. T., Hoang, H. G., Nguyen, N. S. H., Xie, S., et al. (2024). A critical review on characterization, human health risk assessment and mitigation of malodorous gaseous emission during the composting process. *Environmental Pollution*, 351, 124115.
11. Nguyen, M. K., Lin, C., Bui, X. T., Rakib, M. R. J., Nguyen, H. L., Truong, Q. M., et al. (2024). Occurrence and fate of pharmaceutical pollutants in wastewater: Insights on ecotoxicity, health risk, and state-of-the-art removal. *Chemosphere*, 354, 141678.
12. Hoang, H., Nguyen, T. H. A., Nguyen, H. L., & Nguyen, H. M. (2024). Assessment of the current status and potential of environmental resources for the development of organic agriculture in the Central Highlands region, Vietnam. *Ministry of Science and Technology, Vietnam*.
13. Le, V. G., Nguyen, M. K., Nguyen, H. L., Lin, C., Hadi, M., Hung, N. T. Q., Hoang, H. G., et al. (2023). A comprehensive review of micro-and nano-plastics in the atmosphere: Occurrence, fate, toxicity, and strategies for risk reduction. *Science of the Total Environment*, 904, 166649.
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15. Tran, H. T., Hadi, M., Nguyen, T. T. H., Hoang, H. G., Nguyen, M. K., Nguyen, K. N., et al. (2023). Machine learning approaches for predicting microplastic pollution in peatland areas. *Marine Pollution Bulletin*, 194, 115417.
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20. Hoang, H. G., Lin, C., Nguyen, M. K., Bui, X. T., Vo, D. V. N., & Tran, H. T. (2023). The microbiology of food waste composting. In *Food Waste Valorisation: Food, Feed, Fertiliser, Fuel and Value-Added Products*.
21. Tran, H. T., Lin, C., Lam, S. S., Le, T. H., Hoang, H. G., Bui, X. T., Rene, E. R., & Chen, P. H. (2023). Biodegradation of high di-(2-ethylhexyl) phthalate (DEHP) concentration by food waste composting and its toxicity assessment using seed germination test. *Environmental Pollution*, 316, 120640.
22. Nguyen, M. K., Hadi, M., Lin, C., Nguyen, H. L., Thai, V. B., Hoang, H. G., Vo, D. V. N., et al. (2022). Microplastics in sewage sludge: Distribution, toxicity, identification methods, and engineered technologies. *Chemosphere*, 308, 136455.
23. Tran, H. T., Nguyen, M. K., Hoang, H. G., Hutchison, J. M., & Vu, C. T. (2022). Composting and green technologies for remediation of phthalate (PAE)-contaminated soil: Current status and future perspectives. *Chemosphere*, 307, 135989.
24. Nguyen, M. K., Lin, C., Hung, N. T. Q., Vo, D. V. N., Nguyen, K. N., Thuy, B. T. P., et al. (2022). Occurrence and distribution of microplastics in peatland areas: A case study in Long An province of the Mekong Delta, Vietnam. *Science of the Total Environment*, 844, 157066.

25. Hoang, H. G., Thuy, B. T. P., Lin, C., Vo, D. V. N., Tran, H. T., Bahari, M. B., Le, V. G., & Vu, C. T. (2022). The nitrogen cycle and mitigation strategies for nitrogen loss during organic waste composting: A review. *Chemosphere*, 300, 134514.
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38. Yeh, G., Hoang, H. G., Lin, C., Bui, X. T., Tran, H. T., Shern, C. C., & Vu, C. T. (2020). Assessment of heavy metal contamination and adverse biological effects of an industrially affected river. *Environmental Science and Pollution Research*, 27(28), 34770–34780.
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40. Tran, H. T., Lin, C., Bui, X. T., Ngo, H. H., Cheruiyot, N. K., Hoang, H. G., & Vu, C. T. (2020). Aerobic composting remediation of petroleum hydrocarbon-contaminated soil: Current and future perspectives. *Science of the Total Environment*, 753, 142250.
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