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Research Interest

- Membrane separation processes
- Water and wastewater treatment processes
- Biological treatment processes
- Green technologies
- Industrial pollution control and management
- Environmental technology assessment

Professional Experiences

- 2014 – present: Head, Dept. of Water Science & Technology, Faculty of Environment and Natural Resources, HCMC University of Technology (HCMUT), Viet Nam.
- 2013 (Nov): Associate Professor, HCMC University of Technology (HCMUT), Viet Nam.
- 2011-2013: Deputy Head, Environmental Technology Laboratory, Faculty of Environment, HCMUT
- 2009-2013: Assistant Professor, Faculty of Environment, HCMUT, Viet Nam.
- 2006-2008: Team Leader, Research group under Prof. C. Visvanathan, AIT, Thailand.
- 2001-2005: Researcher, Institute for Environment and Resources, HCMC, Viet Nam.
- 2001-2002: Lecturer, Chemical Engineering Dept., Industry University, HCMC, Viet Nam.
- 2001-2005: Independent Consultant: Design of waste treatment systems; consultancy/training for environmental projects.

Education

- 2006-2009: Ph. D, Environmental Engineering (French Government Full Scholarship, exchange program), Asian Institute of Technology (AIT), Thailand & Institut National des Sciences Appliquées de Toulouse (INSA-Toulouse), France.
- 2003-2005: M. Eng, Environmental Engineering (The Netherlands Government Full Scholarship), AIT, Thailand.
- 1996-2001: Engineer Degree, Chemical Engineering, HCMUT, Viet Nam.

Editors:

- Lead Editor, Springer Book “Water and Wastewater Treatment Technologies”, 2018.
- Guest Editor, Journal of Environmental Management (JEMA, Elsevier, ISSN: 0301-4797), 2019.
- Guest Editor, Bioresource Technology Reports (BITEB, Elsevier, ISSN: 2589-014X), 2018.
- Guest Editor, Journal of Applied Membrane Science & Technology (UTM, Malaysia), 2018.

- Editor board member, Waste Technology – ISSN: 2338-6207 (Diponegoro University, Indonesia), 2013-present.
- Assistant Editor, Vietnam Journal of Science Technology and Engineering, Ministry of Science and Technology, Vietnam (ISSN: 2525-2461), 2018.

Selected Publications

a. *SCI/SCIE/Scopus Journals: (*Corresponding author)*

- 1) Hien V.T.D., **Bui X.T.***, Lin C., Nguyen H.H., Nguyen V.T., Nguyen T.B., Vo H.N.P. (2019). Effects of bed media and feeding patterns on wastewater treatment performance of wetland roofs, *Environmental Science and Pollution Research*, **submitted**, x.x. (SCI, IF = 2.760, ISSN: 0944-1344).
- 2) Phong V.H.N., Ky L.G., Hong N.T.M., Tin N.T., Binh N.T., **Thanh B.X.*** (2019). Influence of N/COD ratios and nitrogen forms on aerobic granulation in sequencing batch airlift reactor, *Desalination and Water Treatment*, **Submitted**. (SCIE, IF = 1.631, ISSN: 0301-4797).
- 3) T.D.H. Vo, C.T. Vu, Lin C., **Bui, X.T.***, Erh, W.C., T.K.O. Nguyen, Shin, Y.C., Rene E.R. (2019). An overview of the development of vertical sampling technologies for ambient volatile organic compounds (VOCs), (**Submitted**), *Journal of Environmental Management*, x.x. (SCI, IF = 4.712, ISSN: 0301-4797).
- 4) Vo T.K.Q., **Bui X.T.***, Chen S.S., Nguyen P.D., Cao N.D.T., Vo T.D.H., Nguyen T.T., Nguyen T.B. (2019). Hospital wastewater treatment by sponge membrane bioreactor coupled with ozonation, *Chemosphere* (**Accepted**). (SCI, IF = 4.551; ISSN: 0045-6535).
- 5) Lee, S.T., Tran, H.T., Lin, C., Hoang, H.G., Vo, T.D.H., Vu, C.T., **Bui, X.T.** (2019). Characterization of Diocetyl terephthalate (DOTP) for biodegradation by food waste composting, *Modern Physics Letters B*, x.x, (**Online**). (ISSN: 0217-9849; SCIE, IF = 0.7 (2013)). <https://doi.org/10.1142/S0217984919400487>
- 6) Rene, E.R., **Bui, X.T.**, Nguyen, N.P., Visvanathan, C. (2019). Preface to the ISEAC 5 - Asia special issue, *Journal of Environmental Management*, 234, 180. (SCI, IF = 4.712, ISSN: 0301-4797).
- 7) Nguyen T.T, **Bui X.T.***, Dang B.T, Ngo H.H., Jahng D., Fujioka T., Chen S.S., Dinh Q.T., Nguyen N.C., Nguyen P.T.V. (2019). Effect of Ciprofloxacin dosage on the performance of sponge membrane bioreactor treating hospital wastewater, *Bioresource Technology*, 273, 573-580. (SCI, IF: 6.102, ISSN: 0960-8524).
- 8) H.N.P Vo, **X.T. Bui***, H.H. Nguyen, T.D. Tran, K.J. Lee, T.T.T. Nguyen, B.T. Dang, M.H. Bui, D.D. Nguyen, T.T.M. Ngo (2019). Effects of Dissolved Oxygen Concentration on the Performance of Sponge Membrane Bioreactor Treating Hospital Wastewater, *Desalination and Water Treatment*, 151, 128-137. (SCIE, IF = 1.631, ISSN: 0301-4797).
- 9) Huang W.Y., Ngo H.H, Lin C., Vu C.T., Kaewlaoyoong A., Boonsong T., Tran H.T., **Bui X.T.**, Vo T.D.H., Chen J.R. (2019). Microbial activity of aerobic co-composting degradation of highly PCDD/F-contaminated field soil, *Science of Total Environment*, 660, 595–602 (SCI, IF: 5.102, ISSN: 0048-9697).
- 10) Vo H.N.P., Ngo H.H., Guo W., Liu Y., Chang S.W., Nguyen D.D., Nguyen P.D., **Bui X.T.**, Ren J. (2019). Identification of the pollutants' removal and mechanism by microalgae in saline wastewater, *Bioresource Technology*, 275, 44-52. (SCI, IF: 6.102, ISSN: 0960-8524).
- 11) Tran H.T., Vu C.T., Lin C., **Bui X.T.**, Huang W.Y., Vo T.D.H., Hoang H.G., Liu W.Y. (2018). Remediation of highly fuel oil-contaminated soil by food waste composting and its volatile organic compound (VOC) emission, *Bioresource Technology Reports*, 4, 145-152. (SCIE, Elsevier, IF: , ISSN: 2589-014X).
- 12) van Emmerik T., Kieu-Le T.C., Loozen M., van Oeveren K., Strady E., **Bui X.T.**, Egger M., Gasperi J., Lebreton L., Nguyen P.D., Schwarz A., Slat B., Tassin B. (2018). A Methodology to Characterize Macroplastic Dynamics in Rivers, *Frontiers in Marine Science*, 5(2018), 1-11. (Scopus, Q1, ISSN: 2296-7745). doi: 10.3389/fmars.2018.00372
- 13) Vo H.N.P., **Bui X.T.***, Nguyen T.M.H., Koottatep T & Bandyopadhyay A. (2018). Insights of the Removal Mechanisms of Pharmaceutical and Personal Care Products in Constructed Wetlands, *Current Pollution Reports*, 4, 93-103. (SCIE, IF: , ISSN: 2198-6592)
- 14) Vo T.D.H., Lin C., Weng C.E., Yuan C.S., Lee C.W., Hung C.H., **Bui X.T.**, Lo K.C., Lin J.X. (2018). Vertical Stratification of Volatile Organic Compounds and Their Photochemical Product Formation

- Potential in an Industrial Urban Area, 217, 327-336, *Journal of Environmental Management*. (SCI, IF = 4.712, ISSN: 0301-4797).
- 15) Vo H.N.P., **Bui X.T.***, Nguyen T.T., Nguyen D.D., Dao T.S., Cao N.D.T, Vo T.K.Q. (2018). Effect of nutrient ratios and carbon dioxide bio-sequestration on biomass growth of *Chlorella* sp. in bubble column photobioreactor, *Journal of Environmental Management*, 219, 1-8. (SCI, IF = 4.712, ISSN: 0301-4797).
 - 16) Chung W.J., Nguyen D.D., **Bui X.T.**, An S.W., Banu R., Lee S.M., Kim S.S., Moon D.H., Jeon B.H., Chang S.W. (2018). A magnetically separable and recyclable Ag-supported magnetic TiO₂ composite catalyst: fabrication, characterization, and photocatalytic activity, *Journal of Environmental Management*, 213, 541-548. (SCI, IF = 4.712, ISSN: 0301-4797).
 - 17) Vo H.N.P., Ngo H.H., Guo W., Chang S.W., Nguyen D.D., Nguyen P.D., **Bui X.T.**, Zhang X.B., Guo J.B. (2018). Can algae-based technology be a green approach for biofuel production and wastewater remediation?, *Bioresource Technology*, 256, 491-501. (SCI, IF: 6.102, ISSN: 0960-8524).
 - 18) Bach Q.V., Le V.T., Yoon Y.S., **Bui X.T.**, Woojin C., Chang S.W., Ngo H.H., Guo W., Nguyen D.D. (2018) A new hybrid sewage treatment system combining a rolled pipe system and membrane bioreactor to improve the biological nitrogen removal efficiency: A pilot study, *Journal of Cleaner Production*, 178, 937-946. (SCI, IF = 6.207, ISSN: 0959-6526).
 - 19) Ray S.S., Chen S.S., Nguyen N.C., Nguyen T.H., Nguyen P.D., **Bui, X.T.**, Le T.T. (2018). Exploration of polyelectrolyte incorporated with Triton-X 114 surfactant based osmotic agent for forward osmosis desalination, *Journal of Environmental Management*, 209, 346-353. (SCI, IF = 4.712, ISSN: 0301-4797).
 - 20) Son N.T. & **Thanh B.X.** (2018). Decadal assessment of urban sprawl and its effects on local temperature using Landsat data in Cantho city, Vietnam. *Sustainable Cities and Society*, 36, 81-91. (SCIE, IF = 1.968, ISSN: 2210-6707)
 - 21) Vo T.D.H., **Bui X.T.***, Nguyen D.D., Nguyen V.T., Ngo H.H., Guo W., Nguyen P.D., Nguyen C.N., Lin C. (2018). Wastewater treatment and biomass growth of eight plants for shallow bed wetland roofs, *Bioresource Technology*, 247, 992-998. (SCI, IF: 6.102, ISSN: 0960-8524).
 - 22) Cheng D., Ngo H.H., Guo, W., Liu Y., Zhou J., Chang S.W., Nguyen D.D., **Bui X.T.**, Zhang X.B. (2018). Bioprocessing for elimination antibiotics and hormones from swine wastewater, *Science of Total Environment*, 621, 1664–1682. (SCI, IF: 5.102, ISSN: 0048-9697).
 - 23) Phong V.H.N., **Thanh B.X.***, Tin N.T., Phuoc N.T., T.H.H. Le, T.S. Nguyen, T.D.H. Vo & C. Lin (2017). An in-situ transesterification of municipal activated sludge for biodiesel production, *Desalination and Water Treatment*, 98, 169-175. (SCI, IF = 1.631, ISSN: 0301-4797).
 - 24) Nguyen D.D., Yoon Y.S., Kim S., **Thanh B.X.**, Chang S.W., Guo W., Ngo H.H. (2017). Influences of operational parameters on phosphorus removal in batch and continuous electrocoagulation process performance, *Environmental Science and Pollution Research*, 24(32), 25441-25451. (SCI, IF = 2.760, ISSN: 0944-1344).
 - 25) Hien V.T.D., Ngoc D.T.B, **Thanh B.X.***, Truc N.V., Duc N.D., Sthiannopkao, S. & Lin, C. (2017). Improvement of septic tank effluent and green coverage by shallow bed wetland roof system, *International Biodeterioration & Biodegradation*, 124, 138-145 (SCIE, IF: 3.202, ISSN: 0964-8305).
 - 26) Tin N.T., **Thanh B.X.***, Phuc L.V., Dan N.P., Guo W., Ngo H.H. (2017). Removal of antibiotics in sponge membrane bioreactors treating hospital wastewater: Comparison between hollow fiber and flat sheet membrane systems, *Bioresource Technology*, 240, 42-49. (SCI, IF: 6.102, ISSN: 0960-8524).
 - 27) Chen C., Guo W., Ngo H.H., Chang S.W., Nguyen, D.D., Nguyen, P.D., **Thanh B.X.**, Wu, Y. (2017). Impact of reactor configurations on the performance of a granular anaerobic membrane bioreactor for municipal wastewater treatment, *International Biodeterioration & Biodegradation*, 121, 131-138 (SCIE, IF: 3.202, ISSN: 0964-8305)
 - 28) Son N.T., Chen C.F., Chen C.R., **Thanh B.X.**, Vuong T.H. (2017). Assessment of urbanization and urban heat islands in Ho Chi Minh City, Vietnam using Landsat data, *Sustainable Cities and Society*, 30, 150-161. (SCIE, IF = 1.968, ISSN: 2210-6707)
 - 29) Nhat P.T., Van T.T.T., Biec H.N., Dan N.P., **Thanh B.X.**, Trong D.B., Tuan D.V., Park J., Guo W. Hao N.H. (2017). High rate nitrogen removal by ANAMMOX internal circulation reactor (IC) for old landfill leachate treatment, *Bioresource Technology*, 234, 281-288. (SCI, IF: 6.102, ISSN: 0960-8524).
 - 30) Nguyen D.D., Yoon Y.S., Nguyen N.D., Bach Q.V., **Thanh B.X.**, Chang, S.W., Le H.S., Guo W., Ngo H.H. (2017). Enhanced efficiency for better wastewater sludge hydrolysis conversion through ultrasonic

- hydrolytic pretreatment, *Journal of the Taiwan Institute of Chemical Engineers*, 71, 244-252. (SCI, IF: 3.788; ISSN: 1876-1070)
- 31) Hien, V.T.D. & **Thanh, B.X.*** (2016). Green infrastructure for buildings in the tropical coupling with domestic wastewater treatment, *GMSARN International Journal*, 10, 107-112. (Scopus, ISSN: 1905-9094)
 - 32) Hien V.T.D., **Thanh B.X.***, Thanh C.N.D., Phuc L.V., Tin N.T., Trong D.B., Quan T.M., Duc N.D., Son N.T., Tuc D.Q., Son D.T (2016). Investigation of antibiotics in health care wastewater in Ho Chi Minh city – Vietnam, *Environmental Monitoring and Assessment*, 188(12), 686-695. (SCIE, IF = 1.687, ISSN: 0167-6369).
 - 33) Son N.T., **Thanh B.X.**, Da C.T. (2016). Monitoring mangrove forest changes from multi-temporal Landsat data in Can Gio Biosphere Reserve, Vietnam, *Wetlands*, 36(3), 565-576 (SCIE, IF = 1.572; ISSN: 0277-5212). DOI 10.1007/s13157-016-0767-2.
 - 34) **Thanh B.X.**, Tram V.T.P., Guo W., Tin N.T., Ngo H.H. (2016). Multicriteria assessment of advanced treatment technologies for micropollutants removal at large-scale applications, *Science of Total Environment*, 563–564, 1050–1067. (SCI, IF: 5.102, ISSN: 0048-9697).
 - 35) Tin N.T., **Thanh B.X.**, Duyen P.M., Wenshan G. & Ngo H.H. (2016). Effect of Tris-(hydroxymethyl)-amino methane on microalgae biomass growth in a photobioreactor, *Bioresource Technology*, 208, 1-6. (SCI, IF: 6.102, ISSN: 0960-8524).
 - 36) Tuyet N.T., Dan N.P., Vu N.C., Trung N.L.H., **Thanh B.X.**, De Wever H., Goemans M. and Ludo D. (2016). Laboratory-scale membrane up-concentration and co-anaerobic digestion for energy recovery from sewage and kitchen waste, *Water Science & Technology*, 73(3), 597-606 (SCIE, IF = 1.197; ISSN: 0273-1223).
 - 37) Tin N.T., **Thanh B.X.***, Hien V.T.D., Dat N.D., Dan N.P., Chi D.H.L., Ngo H.H. & Guo W. (2016). Performance and membrane fouling of two lab-scale sponge membrane bioreactors for hospital wastewater treatment at low flux condition, *Separation & Purification Technology*, 165, 123-129. (SCIE, IF = 3.927; ISSN: 1383-5866)
 - 38) Thanh C.N.D., Tin N.T., **Thanh B.X.***, Hien V.T.D., Son T.C.H., Son N.T., Son D.T., Duc P.A., Chi N.T.L., Huong N.L. & Visvanathan C. (2016). Low Cost Spiral Membrane for Improving Effluent Quality of Septic Tank, *Desalination and Water Treatment*, 57, 12409-12414 (SCIE, IF = 1.631; ISSN: 1944-3994)
 - 39) T.A.H. Nguyen, H.H. Ngo, W.S. Guo, T.Q. Pham, F.M. Li, T.V. Nguyen & **Bui X.T.** (2015). Adsorption of phosphate from aqueous solutions and sewage using zirconium loaded okara (ZLO): Fixed-bed column study, *Science of Total Environment*, 523, 40-49 (SCI, IF: 5.102, ISSN: 0048-9697).
 - 40) Vo P.T., Ngo H.H., Guo W., Zhou J.L., Listowski A., Du B., Wei Q., **Bui X.T.** (2015). Stormwater Quality Management in Rail Transportation – Past, Present and Future, *Science of Total Environment*, 512-513, 353-363 (SCI, IF: 5.102, ISSN: 0048-9697).
 - 41) Son N.T., Chen C.F., Chang N.B., Chen C.R., Chang L.Y., **Thanh B.X.** (2015). Mangrove Mapping and Change Detection in Ca Mau Peninsula, Vietnam Using Landsat Data and Object-Based Image Analysis, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 8(2), 503-510 (SCI, IF: 3.026, ISSN: 1939-1404).
 - 42) Van P.T.H., Tin N.T., Hien V.T.D., Quan T.M., **Thanh B.X.***, Hang V.T., Tuc D.Q., Dan N.P., Khoa L.V., Phu V.L., Son N.T., Luong N.D., Kwon E., Park C., Jung J., Yoon I. & Lee S. (2015). Nutrient removal by different plants in wetland roof systems treating domestic wastewater, *Desalination and Water Treatment*, 54(4-5), 1344-1352 (SCIE, IF = 1.631; ISSN: 1944-3994).
 - 43) **Thanh B.X.***, Hien V.T.M., Trung T.C., Da C.T., Berg H. (2015). Reuse of sediment from catfish pond through composting with water hyacinth and rice straw, *Sustainable Environment Research*, 25, (1), 59-63. (Scopus, ESCI, ISSN: 1022-7630).
 - 44) **Thanh B.X.***, Thy L.L., Dan N.P., Visvanathan C. (2014). Industrial wastewater reuse by airlift external membrane bioreactor, *Sustainable Environment Research*, 24(1), 41-47. (Scopus, ESCI, ISSN: 1022-7630).
 - 45) T.A.H. Nguyen, H.H. Ngo, W.S. Guo, J. Zhang, S. Liang, D.J. Lee, P.D. Nguyen, **X.T. Bui.** (2014). Modification of agricultural waste/by-products for enhanced phosphate removal and recovery: Potential and obstacles, *Bioresource Technology*, 169, 750-762 (SCI, IF: 6.102, ISSN: 0960-8524).

- 46) Vijayalayan P., **Thanh B.X.** & Visvanathan C. (2014). Simultaneous Nitrification Denitrification in a Batch Granulation Membrane Airlift Bioreactor, *International Biodeterioration & Biodegradation*, 95, 139-143. (SCIE, IF: 3.202, ISSN: 0964-8305)
- 47) Nhat P.T., Biec H.N., Mai N.T.T., **Thanh B.X.***, Dan N.P. (2014). Application of a Partial nitrification and Annamox System for the Old landfill leachate treatment, *International Biodeterioration & Biodegradation*, 95(Part A), 144-150. (SCIE, IF: 3.202, ISSN: 0964-8305)
- 48) Trang V.N., Dan N.P., Phuong L.D., **Thanh B.X.*** (2014). Pilot study on the removal of TOC, THMs and HAAs in drinking water using ozone/UV – BAC, *Desalination and Water Treatment*, 52(4-6), 990-998 (SCIE, IF = 1.631; ISSN: 1944-3994).
- 49) **Thanh B.X.***, Tin N.T., Van P.T.H., Hien V.T.D., Dan N.P., Koottatep T. (2014). Performance of wetland roof with *Melampodium paludosum* treating septic tank effluent, *Desalination and Water Treatment*, 52(4-6), 1070-1076 (SCIE, IF = 1.631; ISSN: 1944-3994).
- 50) Noh S., Choi M., Kim E. Dan N.P., **Thanh B.X.**, Ha N.T.V., Sthiannopkao S., Han S. (2013). Influence of salinity intrusion on the speciation and partitioning of mercury in the Mekong River Delta, *Geochimica et Cosmochimica Acta*, 106, 379-390. (SCI, IF: 4.933, ISSN: 0016-7037).
- 51) **Thanh B.X.**, Dan N.P., Visvanathan C. (2013). Low flux submerged membrane bioreactor treating high strength leachate from a solid waste transfer station, *Bioresource Technology*, 141, 25-28. (SCI, IF: 6.102, ISSN: 0960-8524).
- 52) **Thanh B.X.**, Visvanathan C., Ben Aim R. (2013). Fouling characterization and nitrogen removal in a batch granulation membrane bioreactor, *International Biodeterioration & Biodegradation*, 85, 491-498. (SCIE, IF: 3.202, ISSN: 0964-8305).
- 53) **Thanh B.X.***, Berg H., Nguyen L.N.T, Da C.T (2013). Effects of hydraulic retention time on organic and nitrogen removal in sponge membrane bioreactor treating catfish farm wastewater in the tropics, *Environmental Engineering Science*, 30(4), 194-199. (SCIE, IF: 1.426, ISSN: 1092-8758)
- 54) Son N.T., Chen C.F., Chen C.R., Chang L.Y., **Thanh B.X.** (2012). Urban growth mapping from Landsat data using linear mixture model in Ho Chi Minh City, Vietnam, *Journal of Applied Remote Sensing (JARS)*, 6(01), 063543. (SCIE, IF=1.309, ISSN: 1931-3195).
- 55) Hung C.D., Han H.N., Dan N.P., **Thanh B.X.**, Kwon J.C., Shin H.S. and Lee E.T. (2012). Application of upflow multi-layer bioreactor (UMBR) for domestic wastewater treatment in HCMC, *Membrane Water Treatment*, 3(2), 77-85. (SCIE, IF: 0.625; ISSN: 2005-8624).
- 56) **Thanh B.X.***, Dan N.P., Binh N.T. (2012). Fouling mitigation in submerged membrane bioreactor treating dyeing and textile wastewater, *Desalination and Water Treatment*, 47(1-3), 150-156. (SCIE, IF = 1.631; ISSN: 1944-3994).
- 57) Nhat P.T., Dan N.P., **Thanh B.X.***, Hira D., Furukawa K. (2012). Study on Application of Annamox Process Using Polyester Non-woven Carrier Reactor (PNBCR) for Latex Processing Wastewater Treatment, *Journal of Water and Environment Technology*, 10(2), 217-227. (SCIE, Scopus, ISSN: 1348-2165).
- 58) Phuong D.T.T., **Thanh B.X.***, Dan N.P. (2012). Impact of nitrogen loading rates on nitrogen transformation for anaerobic effluent from latex processing industry, *International Journal of Global Environmental Issues*, 12(2-4), 179-189. (Scopus, ISSN: 1741-5136).
- 59) Le N., **Thanh B.X.***, Dan N.P. (2012). Study of swim-bed technology for cod removal and nitrification for latex wastewater treatment, *International Journal of Global Environmental Issues*, 12(2-4), 190-203. (Scopus, ISSN: 1741-5136).
- 60) **Thanh B.X.**, Sperandio M., Guigui C., Ben Aim R., Wan J.F., Visvanathan C. (2010). Coupling sequencing batch airlift reactor (SBAR) and membrane filtration: Influence of nitrate removal on sludge characteristics, effluent quality and filterability, *Desalination*, 250(2), 850-854. (SCI, IF = 5.905; ISSN: 0011-9164).
- 61) **Thanh B.X.**, Visvanathan C., Ben Aim R. (2009). Characterization of aerobic granules at various organic loading rates, *Process Biochemistry*, 44(2), 242-245. (SCI, IF = 3.393; ISSN: 1359-5113).
- 62) **Thanh B.X.**, Visvanathan C., Spérandio M., Ben Aim R. (2008). Fouling characterization in aerobic granulation coupled baffled membrane bioreactor, *Journal of Membrane Science*, 318(1-2), 334-339. (SCI, IF = 5.983; ISSN: 0376-7388).

b. Book/Book chapter:

- 1) Eldon R. Rene, **Bui Xuan Thanh**, Nguyen Phuoc Dan, Chettiyappan Visvanathan (2019), Special issue from the ISEAC 5 - Asia conference: 5th International Symposium on Environmental Analytical Chemistry, Journal of Environmental Management (Elsevier, ISSN: 0301-4797), Special issue Guest Editor.
- 2) **Xuan-Thanh Bui*** (Lead Editor), Chart Chiemchaisri, Takahiro Fujioka & Sunita Vajarni (2018). Water and Wastewater Treatment Technologies, Springer. ISBN: 978-981-13-2982-1
- 3) **Xuan-Thanh Bui***, Chart Chiemchaisri, Takahiro Fujioka & Sunita Vajarni (2018). Chapter 1: Introduction to Recent Advances in Water and Wastewater Treatment Technologies in Book “Water and Wastewater Treatment Technologies”, Springer. ISBN: 978-981-13-2982-1
- 4) Manh-Ha Bui & **Xuan-Thanh Bui** (2018). Chapter 8 “Degradation of Complex Organic Pollutants in Wastewater by homogeneous Electro-Fenton” in Book “Water and Wastewater Treatment Technologies”, Springer. ISBN: 978-981-13-2982-1
- 5) Huu-Hao Ngo, Hoang-Nhat-Phong Vo, Wenshan Guo, **Xuan-Thanh Bui**, Phuoc-Dan Nguyen, Xinbo Zhang (2018). Chapter 14 “Advances of photobioreactors in wastewater treatment: Engineering aspects, applications and future perspectives” in Book “Water and Wastewater Treatment Technologies”, Springer. ISBN: 978-981-13-2982-1.
- 6) Xia Huang, **Bui Xuan Thanh**, Chart Chiemchaisri (2018). IBA-Advanced membrane bioreactors for environment sustainability, Bioresource Technology Reports (Elsevier, ISSN: 2589-014X), Special Issue Guest Editor.
- 7) Dan N.P., **Thanh B.X.**, An H.K. (2017). Abstract Book - The 5th International Symposium on Environmental Analytical Chemistry, International Association of Environmental Analytical Chemistry (IEAEC) – University of Technology - Vietnam National University – Ho Chi Minh, Vietnam National University Publisher. ISBN: 978-604-73-4968-5.
- 8) Hai V.P., Dan N.P., **Thanh B.X.***. (2016): Membrane Bioreactor for Decentralized Wastewater Treatment: A Case Study, p.1-5 in the book of Encyclopedia of Membranes: Springer-Verlag Berlin Heidelberg 2015 (Editors: Drioli & E., Giorno, L). DOI 10.1007/978-3-642-40872-4_2006-1.
- 9) Triet L.M. & Nhue T.H. (2015). Xử lý nước thải – Vol. 1 [Wastewater treatment - Vol. 1]. NXB Xây Dựng [Construction Publisher, Vietnam] – **Thanh B.X.***, Tin N.T. & Tam N.D. Chương 8: Xử lý nitơ và photpho [Chapter 8: Nitrogen and phosphorus removal], p.290-342. ISBN: 978-604-82-1609-2.
- 10) Triet L.M. & Nhue T.H. (2015). Xử lý nước thải – Vol. 1 [Wastewater treatment - Vol. 1]. NXB Xây Dựng [Construction Publisher, Vietnam] – **Thanh B.X.***. & Tin N.T. Chương 1: Màng lọc và công nghệ sinh học màng ứng dụng trong xử lý nước thải [Chapter 1: Membrane and application of membrane bioreactor for wastewater treatment], p.9-38. ISBN: 978-604-82-1609-8.
- 11) **Thanh B.X.** & Dan N.P. (2014). Book of Abstract “The 4th Regional Conference on Membrane Technology”, December 3rd-6th, 2014, Ho Chi Minh City, Vietnam. The International Water Association. ISBN: ISBN: 978-604-73-2958-8 (Co-chairman of Organizer).
- 12) **Thanh B.X.** & Khoa L.V. (2013). Thuật ngữ chuyên ngành kỹ thuật và quản lý nước-nước thải [Technical terms for water engineering and management], NXB Đại Học Quốc Gia TPHCM [Ho Chi Minh City National University Publisher], Viet Nam. ISBN: 978-604-73-1807-0.
- 13) **Thanh B.X.** (2012). Manual for design of biological treatment processes [So Tay Huong Dan Thiet Ke Cac Cong Trinh Xu Ly Sinh Hoc], Ho Chi Minh City National University, Viet Nam. ISBN: 978-604-73-1409-6.
- 14) **Thanh B.X.** (2009). Fouling behaviour and nitrogen removal in aerobic granulation Membrane Bioreactor, PhD Dissertation, *Asian Institute of Technology (AIT)*, Bangkok, Thailand.
- 15) Jegatheesan V., Shu L., Visvanathan C., **Thanh B.X.** (2008). Aerobic Environmental Process: Chapter 23 in Advances in Fermentation Technology, Ed. Ashok Pandey et al., pp. 622-654, *Asiatech Press*, New Delhi. ISBN: 81-87680-18-0.
- 16) Dan N.P., Ha N.T.V., **Thanh B.X.**, Khoa L.V. (2007). Chapter 3: Water resources management in Ho Chi Minh City, Sustainable Groundwater Management in Asian Cities. International Global Environmental Strategy (IGES) Hayama, Japan, IGES, pp. 68-92. ISBN: 4-88788-039-9.
- 17) Dan N.P., **Thanh B.X.**, Khoa L.V., Truong B.D. (2006). Case study: Groundwater resources management in HCMC, Part III, pp. 81-87: Chapter in Sustainable groundwater management in Asian cities - *A summary report of Research on Sustainable Water Management in Asia*, Fresh Water Resources Management Project, IGES, Japan. ISBN 4-88788-029-4.

- 18) **Thanh B.X.** (2005). Aerobic granulation in Membrane Bioreactor, Master Thesis, *Asian Institute of Technology (AIT)*, Bangkok, Thailand.

Research grants and Technology transfer projects (PI/Co-PI and core member only)

No	Research projects	Code	Time	Funding organization
1)	Development of low cost Membrane Distillation System for Saline Water Treatment in Mekong River Delta - Viet Nam	GIST-2019	1-12/2019	GIST, Korea
2)	Ứng dụng công nghệ khử mặn chi phí thấp trong xử lý nước biển	SVOISP-2018-MT&TN-14	9/2018-5/2019	HCMUT
3)	Application of New Generation of Wetland Roof System for Treating Domestic Wastewater Coupling with Enhancing Green Urban Area to Reduce the Climate Change Effect in the Urban Tropics	GIST-2018	8/2018-12/2018	Gwangju Institute of Science & Technology (GIST), Korea
4)	Saline water treatment by direct contact membrane distillation [Xử lý nước nhiễm mặn bằng công nghệ chưng cất màng trực tiếp]	Tc-MTTN-2018-08	2018-2019	University's Research Project - CARE
5)	Groundwater Contributions to the Sai Gon River and Implications for the Degradation of Drinking Water Supplies for Ho Chi Minh City, Vietnam in coordinated with project Isotope Techniques for the Evaluation of Water Sources for Domestic Supply in Urban Areas (Core member)	F33024 – IAEA	2018-2019	IAEA (International Atomic Energy Agency), Austria
6)	Energy-efficient water management system for an industrial park in Vietnam (ERWIN), Vietnam-Germany joint Research Project.	ERWIN No. 10044850	2018-2019	Federal Ministry of the Environment, Germany
7)	Application of Direct Contact Membrane Distillation for Saline Water Treatment [Ứng dụng Công nghệ Direct Contact Membrane Distillation trong xử lý nước nhiễm mặn] – Master student: Ngo Thi Tra My	TSDH-MTTN-2017-21	2011-2012	University's Research Project – Master student research
8)	Synergy effect between Algae and Bacteria in Membrane Photobioreactor for nutrient recovery from urine [Cộng hợp của tảo và vi khuẩn trong Membrane Photobioreactor nhằm thu hồi dinh dưỡng từ nước tiểu] – Master student: Nguyen Van Thuan	TSDH-MTTN-2017-22	2011-2012	University's Research Project – Master student research
9)	Synthesis of β -cyclodextrin nickel ferrite nanoparticles for the removal of pharmaceutical compounds from aqueous systems (Co-PI as Asean Partner)	Asean-India - 2018	2018-2020	Asean-India Science & Technology Development Fund
10)	Aquaponis system integrated fish farming to vegetable in green house (Co-PI)	SIDA-MEKARNII - 2017	2017-2018	SIDA
11)	Study on the pilot-scale LENA membrane process treating domestic wastewater and microbial rejection test using Kolon membrane	Korea-KOLON-2017	2017-2018	Kolon membrane, Kolon industry, Republic of Korea
12)	GEN technology for high-concentrated waste treatment	Kyowakiden, Japan – 2017	2017-2018	Kyowakiden-Vietnam, Japan

13)	Two stage anaerobic digestion for organic waste treatment: performance and energy/product recovery	Hitachi Zosen – 2017	2016-2017	Hitachi Zosen, Japan
14)	Potential nutrient recovery from Urine as agricultural products [Đánh giá tiềm năng thu hồi dinh dưỡng từ nước tiểu để sản xuất sản phẩm phân bón]	Tc-MTTN-2017-01/University - Care	4/2017-12/2017	University's Research Project - CARE
15)	H2Ospital project: Water supply and hygiene for district hospitals in rural area – Vietnam & Tarzania	H2Ospital-2017	3/2017-3/2018	EPFL, Switzerland
16)	Operation of Pilot Scale Groundwater Treatment System in Ho Chi Minh City, Vietnam	Korea-JIU-2017	3/2017-9/2017	KEITI-Korea
17)	Nghiên cứu điều chế kết tủa struvite từ nước tiểu làm sản phẩm phân bón [Study on the struvite formation from Urine for agricultural fertilizer]: Student research project – Le Thi Hong Hanh (Supervisor)	VBL04-2017	3/2016-3/2017	Vietnam Brewery Co. Ltd
18)	Survey, performance evaluation and proposing appropriate technology improvement for 15 wastewater treatment systems of Saigon-Coop super market chain [Danh gia hien trang 15 HTXLNT, de xuat va giam sat cong nghe chuan, xay dung tieu chi HTXLNT cho he thong sieu thi COOPMART]	COOP-RECTIE	6/2016-10/2017	COOP
19)	KARG Research grant between Kurita Water and Environmental Foundation (KWEF) and Asian Institute of Technology (AIT) [Research supervisor of Mr. Luu Vinh Phuc – Project “Membrane Bioreactor for reduction of antibiotics in hospital wastewater”]	KARG-2016	6/2016-6/2017	KWEF-AIT
20)	Microfiltration kết hợp quá trình keo tụ/hấp phụ và quá trình oxi hóa bậc cao loại bỏ ô nhiễm hữu cơ vi lượng trong nước mặt	Tc-MTTN-2016-01/University - Care	3-12/2016	University's Research Project - CARE
21)	Nghiên cứu ứng dụng công nghệ màng MBR kết hợp giá thể sponge khử kháng sinh trong nước thải y tế [Study on the MBR with sponge media treating hospital wastewater]: Student research project – Nguyen Thanh Tin	VBL01-2016	1/2016-1/2017	Vietnam Brewery Co. Ltd
22)	Thu hồi dinh dưỡng và phát triển sinh khối tảo bằng mô hình Membrane Photobioreactor [Recovery of nutrients and algae biomass cultivation by membrane photobioreactor]: Student research project – Vo Thi Kim Quyen	VBL03-2016	1/2016-1/2017	Vietnam Brewery Co. Ltd
23)	Nghiên cứu loại bỏ kháng sinh trong nước thải bệnh viện bằng công nghệ màng Sponge MBR kết quả trình Ozone [Antibiotic removal in hospital wastewater by Sponge MBR coupling with Ozonation]	NAFOSTED:105.99-2015.16	1/2016-1/2018	NAFOSTED, Ministry of Science & Technology – Viet Nam
24)	Reduction of Antibiotics in hospital wastewater by Sponge Membrane Bioreactor	GIST-2016	1/2016-12/2016	GIST, Korea
25)	Ung dung cong nghe khuay tron be mat advanced SBR xu ly nuoc thai nhiem hoa chat cong nghiep do su co tai tai kenh 6, khu cong nghiep Le Minh Xuan [Application of Advanced in Situ Sequencing Batch Reactor for treatment of canal	HCMC People's Committee	2014-2015	Ho Chi Minh City People Committee – Tan Hong Thai Co.

	water due to chemical waste discharge accident]			
26)	Reduction of Antibiotics in hospital wastewater by Sponge Membrane Bioreactor: Case study in Ho Chi Minh City – Vietnam	GIST-2015	1/2015-12/2015	Gwangju Institute of Science & Technology (GIST), Korea
27)	Đánh giá chất lượng nước cấp sử dụng và phát triển mô hình xử lý nước cấp an toàn phù hợp cho các cơ sở y tế của TPHCM và vùng Đồng Bằng Sông Cửu Long [Assessment of clean drinking water quality and Developing an essential water treatment kit for hospitals in Ho Chi Minh City and Mekong Delta]	T-MTr-2014-82/University - Care	2014-2015	University's Research Project - CARE
28)	Nghiên ứng dụng công nghệ màng MBR kết hợp công nghệ oxy hóa bậc cao loại bỏ chất kháng sinh trong nước thải y tế [Study on removal of antibiotic in hospital wastewater by Membrane Bioreactor coupling with advanced oxidation process]	B2014-20-03 (B-type research project)	2014-2016	Vietnam National University-HCM
29)	Thai Ngoc Phuong company provides two BIOGILL wastewater treatment systems for research in water treatment and domestic wastewater treatment.		4/2013-3/2015	Thai Ngoc Phuong Co.
30)	Toward green city through application of a wetland roof system coupling with domestic wastewater treatment	KECO	9/2013-8/2014	KECO, Ministry of Environment, South Korea
31)	Improvement of Water Environment of Xuyen A Industrial Park, Binh Chanh District, HCMC (2009), Economic contract with Industrial Park, Viet Nam (Technology transfer project)	DITAGIS-2013	2013-2014	Ngoc Phong Industrial Park, Long An Province
32)	Investigation and survey on residue pollution of pesticides in Tay Ninh province [Điều tra, khảo sát xử lý, phòng ngừa ô nhiễm môi trường do hóa chất và thuốc bảo vệ thực vật tồn lưu trên địa bàn tỉnh Tây Ninh] (Technology transfer project)	DONRE – Tay Ninh: 2785/QĐ-STNMT	11/2013-11/2014	Dept. of Natural Resources & Environment – Tay Ninh Province
33)	Trihalomethanes (THMs) and its forming potential in water treatment plants in Mekong Delta Provinces	GIST-2014	1/2014-12/2014	Gwangju Institute of Science & Technology (GIST), Korea
34)	Design, manufacturing and trial operation of Upflow multimedia Bioreactor coupling with membrane bioreactor treating hospital wastewater in Ho Chi Minh city	169/2012/HĐ-SKHCN	8/2012-8/2013	Dept. Science and Technology – HCMC, Viet Nam
35)	Review on available sanitation technology in Vietnam, AIT	AIT-BMGF	1/2013-8/2013	AIT - Bill and Melinda Gates Foundation (BMGF)
36)	Ứng dụng mô hình đất ngập nước trên mái (mái xanh) xử lý nước thải sinh hoạt: Một giải pháp giảm thiểu ảnh hưởng của biến đổi khí hậu [Application of wetland roof for domestic	NAFOSTED: 105.99-2011.03	11/2011-11/2013	NAFOSTED, Ministry of Science & Technology –

	wastewater treatment: A solution for climate change mitigation]			Viet Nam
37)	Nghiên cứu ứng dụng màng Woven Fiber Microfiltration (WFMF) xử lý nước thải bể tự hoại [Study on application of woven fibre membrane filtration treating septic tank effluent]	B2012-20-28	4/2012-4/2013	HCMUT-Vietnam National University-HCM
38)	Ung Dung Cong Nghe Mang Loc Co Gia The (Attached Growth Membrane Bioreactor) Xu Ly Nuoc Thai Ao Nuoi Ca Tra [Application of attached growth membrane Bioreactor treating catfish farm wastewater]	TSĐH-2011-MTr-07	2011-2012	University's Research Project – Master student research
39)	Landscape Analysis and Business Model Assessment in Fecal Sludge Management: Extraction and Transportation Models in Viet Nam	BMGF	2012	Hanoi University of Civil Engineering - BMGF
40)	Application of Respirometer to monitor biological treatment processes [Nghien cuu ung dung mo hinh ho hap ke de giam sat chat luong cac cong trinh xu ly sinh hoc]	B2011-20-30	4/2011-3/2012	HCMUT-Vietnam National University-HCM
41)	Application of aerobic granule for nitrogen removal in seafood processing wastewater [Ung Dung Bun Hat Hieu Khi Khu Nito Trong Nuoc Thai Thuy San]	B2010-20-13/	4/2009-3/2010	HCMUT-Vietnam National University-HCM
42)	Wastewater Treatment for Textiles and Dyeing Industries by Membrane Bioreactor Coupling with Advanced Oxidation Processes (B2-12)	SUPREM-HCMUT-JICA B2-12	8/2010-7/2011	JICA-HCMUT
43)	Xu Ly Nuoc Thai Det Nhuom Ung Dung Cong Nghe Mang (MBR) Ket Hop Oxi Hoa bac Cao (Advanced Oxidation Processes)	B2-12 (counterpart)	8/2010-7/2011	University's research project
44)	Sustainable water management in urban fringe areas through industrial wastewater reuse	AIT-HCMUT-INSA	2009-2010	FRANCE/AIT - Network Regional Programme Project
45)	Development of low-cost water treatment system through co-precipitation between iron and arsenic for Mekong Delta province, Viet Nam.	GIST-2012	1/2012-12/2013	Gwangju Institute of Science & Technology (GIST), Korea
46)	Monitoring of Arsenic in groundwater of Tien Giang, Mekong Delta province, Viet Nam. Funded by Gwangju Institute of Science and Technology (GIST), Korea (Project Investigator).	GIST-2011	1/2011-12/2011	Gwangju Institute of Science & Technology (GIST), Korea
47)	Monitoring of Arsenic in groundwater of Long An, Mekong Delta province, Viet Nam	GIST-2010	1/2010-12/2010	Gwangju Institute of Science & Technology (GIST), Korea
48)	Monitoring of water quality of Mekong Delta provinces and South-east Provinces of Ho Chi	METAWATER	2010	MEATWATER Co. Ltd, Japan

	Minh City, Viet Nam (Technology transfer project)			
49)	Improvement of Water Environment of Trang Bang Industrial Park, Tay Ninh Province (2011), Economic contract with Industrial Park, Viet Nam (Technology transfer project)	RECTIE-2011	2011-2012	Trang Bang Industrial Park
50)	Improvement of Water Environment of Le Minh Xuan Industrial Park, Binh Chanh District, HCMC (2009), Economic contract with Industrial Park, Viet Nam (Technology transfer project)	DITAGIS-2009	2009-2010	BCCI – Le Minh Xuan Industrial Park
51)	Improving the local community environment through development communities action plan of Water & Sanitation (WATSAN) (2009)	WWF-2009	2009	World Wildlife Fund
52)	Sustainable water management policy project (2006), HCMUT	IGES-2006	2006	Institute for Global Environmental Strategies (IGES), Japan
53)	Eco-industrial clusters in the rural urban fringe areas of Viet Nam (2007)	AIT-HCMUT-IGES	2007	IGES, Japan
54)	CIDA-AIT partnership Southeast Asia Urban environmental management applications (SEA-UEMA) project (2006)	SEA-UEMA	2006	CIDA-AIT, Thailand
55)	Public awareness for residents in area of Tan Hoa–Lo Gom canal (2003), CBEM project	Asia Foundation-USA	2003-2004	Asia Foundation, USA

Keynote/Invited Speakers/Trainers:

- 1) **Invited Speaker** – The 5th International Water Industry Conference 2019 (IWIC 2019), Daegu, Korea, September 3-6, 2019.
- 2) **Keynote Speaker** - The 10th International Membrane Science and Technology Conference (IMSTEC2020), Sydney, Australia, Feb 2-6, 2020.
- 3) **Invited Speaker** - International Conference on NEW HORIZONS IN BIOTECHNOLOGY (NHBT-2019; www.niist.res.in/nhbt2019/), Trivandrum, India, November 20-24, 2019.
- 4) **Guest Speaker** – International symposium on “The current situation of infrastructure maintenance and management technology”, Nagasaki University, Japan, March 27, 2019.
- 5) **Keynote Speaker** - International Conference on Biomedical and Environmental Engineering, December 17-18, 2018, College of Engineering, National Chung Hsing University, Taiwan.
- 6) **Invited Speaker** – International Forum on Climate Adaptation 2018 (IFOCA 2018), Gwangju Institute of Science and Technology (GIST), South Korea November 14-15, 2018.
- 7) **Keynote Speaker** - *2018 Eastern Asia Conference for Water Environmental Issues* (host by Chung Yuan Christian University, Taiwan) and *2018 International Conference on Forward-looking Water Management* (host by Water Resources Agency, Taiwan), 6-9 November 2018.
- 8) **Keynote Speaker** – Second International Conference of International Society for Energy, Environment and Sustainability (ISEES) on “*Sustainable Energy and Environmental Challenges*” (SEEC 2018)
- 9) **Invited Speaker** - The 4th International Conference on Contaminated Land, Ecological Assessment and Remediation 2018 (CLEAR-2018), August 16th-18th, 2018 organized by The Hong Kong Polytechnic University, Hong Kong.
- 10) **Keynote Speaker** – Second International Conference of International Society for Energy, Environment and Sustainability (ISEES) on “*Sustainable Energy and Environmental Challenges*” (SEEC 2018), organized jointly by Indian Institute of Science-Bangalore and International Society for Energy, Environment and Sustainability, J.N Tata Auditorium, India, January 1-3, 2018. Topic title “Membrane bioreactor versus removal of antibiotics”.

- 11) **Invited Speaker** - The 7th International Forum on Industrial Bioprocesses – International Bioprocesses Association (IFIBiop), May 21-25, 2017, Jiangnan University, Wuxi, China. Topic title *“Investigation of Domestic Wastewater Treatment Capacity & Nutrient Accumulation by Wetland Roof with Different Local Plants”*.
- 12) Trainer - The 3rd Franco-Vietnamese School on “Membrane Separation and Renewable Energy for Drinking Water Production and Wastewater Reuse”, April 24rd-26th, 2017, Institute of Environmental Technology, Vietnam Academy of Science and Technology & UNESCO – SIMEV.
- 13) **Invited Speaker** – International Conference on Environmental Issue in Asian Countries, January 13rd-14th, 2017, Myongji University, Yongin, Republic of Korea. Topic title *“Pollution and Management of Water Environment in Vietnam: Challenges and Opportunity”*.
- 14) **Invited Speaker** – The Fourth Korea-ASEAN Engineering Forum: Korea-ASEAN Engineering Nexus for Better Tomorrow organized by National Academy of Engineering of Korea & ASEAN Academy of Engineering and Technology, July 29th, 2016, Westin Chosun Hotel, Seoul, Republic of Korea. Topic title *“Water management in Ho Chi Minh City”*.
- 15) **Invited Speaker** – Department of Science and Technology of Dong Nai province, November 25th, 2016. Topic title: *“Current situation and suitable technology solutions for the field of wastewater treatment technologies of Dong Nai province”*.
- 16) Trainer - The 2nd Franco-Vietnam training course on “Membrane Technology for wastewater treatment in Agricultural and Food Industry”, March 23rd-27th, 2014, Institute of Environmental Technology, Vietnam Academy of Science and Technology & UNESCO – SIMEV.
- 17) Trainer - Training workshop on operation and management for operators of wastewater treatment systems in Tra Noc I industrial zone, Can Tho, October 11th-12th, 2012. Funded by GIZ-Vietnam, Germany.
- 18) Trainer - Training workshop for inspector of Department of Natural Resource and Environment (DONRE), HCMC on monitoring and management for textile and dyeing industries, November 4th-5th, 2012. Funded by JICA, Japan.
- 19) Trainer - Training workshop on operation and control of Coopmart wastewater treatment systems, December 2012, HCMC.
- 20) Trainer - Training workshop for operators of Central wastewater treatment plant – Bien Hoa Sugar factory, 2011, Bien Hoa, Dong Nai province.
- 21) Trainer - Training workshop for Phu My Fertilizer (Dam Phu My), Calculation and Design of Wastewater Treatment Unit Processes, Le Thanh Ton Str., District 1, HCMC, May 9th-11th, 2011.
- 22) Trainer - Training workshop for Vina Kraft Paper Co. (SCG Paper), Operation and Management of Wastewater Treatment Plant, My Phuoc III Industrial Park, Ben Cat District, Binh Duong, 28-30 Aug & 30 Sep-2 Oct 2009.
- 23) Trainer - Training workshop on operation and management of industrial wastewater treatment systems for Vung Tau industries, September 2009.
- 24) Trainer - Training workshop for Viet Nam Brewery Factories, Operation and Management of Wastewater Treatment Plant, Asian Institute of Technology Center in Viet Nam (AITCV), 6-10 July 2009, HCMC.
- 25) Trainer - Training workshop for operators of Central wastewater treatment plant - Trang Bang Industrial Park, Tay Ninh Province (2011).
- 26) Trainer - Training workshop for operators of Central wastewater treatment plant – Amata industrial park, (2002), Bien Hoa, Dong Nai province.

Conference/Workshop organizer

- [The 2nd Green Technologies for Sustainable Water \(GTSW\) Conference – 2019, in the series of GSTW chaired by University Technology of Sydney \(General Chair of Organizing Committee GTSW 2019\).](#)
- Kick-Off workshop on Energy-efficient water management system for an industrial park in Vietnam (ERWIN), Technical University of Berlin – HCMUT – CARE (**Chairman** of Organizing Committee).
- [The 5th International Symposium of Environmental Analytical Chemistry \(ISEAC 5 – Asia\), May 16th-20th 2017, Ho Chi Minh City, Vietnam. Supported by the International Association of](#)

Environmental Analytical Chemistry (IAEAC) - Switzerland (**Co-chairman** of Organizing committee).

- International Conference on Environmental Quality Concern, Control and Conservation (EQC 2015), May 08-09, 2015 Kaohsiung, Taiwan (International Program Committee).
- [The 4th IWA Regional Conference on Membrane Technology](#), December 3rd-6th, 2014, REX hotel, Ho Chi Minh City, Vietnam. [International Water Association](#) (2014) (**Co-chairman** of organizing committee).
- Workshop on “Sustainable management of ecosystem services for long term aquaculture production in the Mekong Delta”, March 20th-22nd, 2013, organized by HCMUT. Project funded by SIDA, Sweden.
- Workshop on “Environmentally Sound Treatment of Hazardous Chemicals in Asia”, January 16th-18th, 2013, jointly organized by HCMUT-AIT, HCMC, Viet Nam.
- International Forum for Green Technology and Management (IFGTM – 2012). Ho Chi Minh city University of Technology, July 30th-31st, 2012. Funded by Taiwan Universities (**Co-chairman of organizing committee**).
- Project kick-off workshop “Toward green city through application of a wetland roof system coupling with domestic wastewater treatment”, August 27th-28th, 2013. Project supported by Korea Environment Corporation (KECO), Ministry of Environment, South Korea (**Chairman of Organizing Committee**).
- Workshop on “Sustainable water management in urban fringe areas through industrial wastewater reuse”, December 21st, 2010, Ngoc Lan hotel, Viet Nam. Project funded by FRANCE/AIT - Network Regional Programme.
- Training on “Application of membrane Technology for water and wastewater treatment”, December 22nd, 2010, Ho Chi Minh City University of Technology, Viet Nam, organized by AIT-HCMUT.
- Workshop on “Sustainable water management policy project”, Renaissance Riverside Hotel Saigon, 2006, organized by HCMUT-Institute for Global Environmental Strategies (IGES), Japan.

Supervision of International students

- Marisa Boller (April-June, 2019), EPFL, Switzerland.
- Vo Thi Dieu Hien (2017-2019), PhD student (National Kaohsiung University of Science and Technology, Taiwan).
- Le Linh Thy (2017-2019), PhD student, Myongji University, Korea.
- Joana Gericke (October–November 2018), Technische Universität Berlin, Germany.
- Hendrik Hammann (August–September 2018), Technische Universität Berlin, Germany.
- Julia PEROLLA (May–August 2018), The University of Limoges, France.
- Lisa BARRUCAN (May–August 2018), The University of Limoges, France.
- Pauline FLOBINUS (May–August 2018), The University of Limoges, France.
- Lea GUYOMARC’H (June–August 2018), Université de Poitiers, France.
- Constance ARNAUD (May-July 2018), ENSCR (Ecole Nationale Supérieure de Chimie de Rennes), France.
- Wendling Margot (February-May 2018), EPFL, Switzerland.
- Alexandre Marcos (December 2017-March 2018), EPFL, Switzerland.
- Aude Sagnimorte (September– December 2017), EPFL, Switzerland.
- Carl HENRIK Rolf ÅSLUND (July–September 2017), EPFL, Switzerland.
- Nguyen Quoc Tuan Tran (July–August 2017), University of Groningen, Netherlands.
- E SILVA PINHO Nicolas (May-August 2017), ENSIL, France.
- FONTAINE Tony (May-August 2017), ENSIL, France.
- DADOU Hugo (May-August 2017), ENSIL, France.
- JOEL LEE MIN KIT (April–September 2017), Temasek Polytechnic of Singapore, Singapore.
- Muhamad Akmaluddin (April–September 2017), Temasek Polytechnic of Singapore, Singapore.
- Thomas PAYET (May– July 2017), ENGEES, France.
- Sara ANCEL (January–March 2017), EPFL, Switzerland.

- Yara-Maria PROUST (September–November 2016), EPFL, Switzerland.
- Anaïs Ghirardi (September–November 2016), EPFL, Switzerland.
- Luis Antonio Hernandez Hunger- bühler (June–September 2016), EPFL, Switzerland.
- Fiona Claire Collins (July–September 2016), EPFL, Switzerland.
- Doan Ngoc Lam NGUYEN (July–September 2016), Seattle University, United States.
- Antoinette Jestin (July 2016 - January 2017), ENSE3_GRENOBLE, France.
- Aïssatou Cisse (May–August 2016), ENSIL, France.
- Amélie BONNEFIN (May–August 2016), ENSIL, France.
- Benyamin Bin Rahmat (March–September 2016), Temasek Polytechnic of Singapore, Singapore.
- Malcom Lau Jun Xiang (March–September 2016), Temasek Polytechnic of Singapore, Singapore.
- Victor Chan Wai Han (March–September 2016), NUS, Singapore.
- Olive Margot Ninon Lauren (July–September 2015), EPFL, Switzerland.

Awards

- Certificate of outstanding reviewer for journals: Bioresource Technology (Elsevier), International Biodeterioration & Biodegradation (Elsevier), Chemosphere (Elsevier), Ecological Engineering (Elsevier), etc.
- The Best Paper Presenter award: “Effect of bed media on the performance of wetland roof system treating domestic wastewater”. The 11th AUN/SEED-Net Regional Conference on Environmental Engineering 2018 (RCEnvE-2018 & The 3rd International Symposium on Conservation and Management of Tropical Lake, September 27th-28th, 2018, Sunway hotel, Phnom Penh, Cambodia.
- The Grand Winner Award (300,000 Japanese Yen, Round trip tickets + Accomodation for 2): Project of Advanced Water Treatment Technology “*Development of New Submerged Direct Contact Membrane Distillation Process for Saline Water Treatment*” by **BX Thanh**, Tech Plant Demo Day in Vietnam 2018, Tech Planter organized by Leave a Nest (Japan), June 9th 2018, Saigon Innovation Hub, Vietnam.
- The Mitsui Chemicals award (2,500 SGD): Project of Advanced Water Treatment Technology “*Development of New Submerged Direct Contact Membrane Distillation Process for Saline Water Treatment*” by **BX Thanh**, Tech Plant Demo Day in Vietnam 2018, Tech Planter organized by Leave a Nest (Japan), June 9th 2018, Saigon Innovation Hub, Vietnam.
- The best poster award - Roland Frei Award: “*Effect of sludge retention time on antibiotics removal in hospital wastewater by sponge membrane bioreactor*” by Phuc L.V, Quyen VTK, Ngoc DTB & **Thanh BX***. The 5th International Symposium on Environmental Analytical Chemistry, May 16th-20th, 2017, REX hotel, Ho Chi Minh city, Vietnam.
- The best paper award: “Aerobic granulation in Sequencing Batch Airlift Reactor for Organic and nitrogen removal”. The 4th AUNSEED-Net Regional Conference on Global Environment and Seminar of NRCT-JSPS Asian Core Program, January 18th-19th, 2012, Emerald Hotel, Bangkok, Thailand.
- SASAKAWA Young Leader Fellowship award (Tokyo Foundation) - 2003.
- Certificate of model lecturer from the Rector of HCMC University for the school year of 2012; 2014; 2016; 2017; 2018.
- Certificate of satisfactory progress from the Rector of HCMC University of Technology for the excellent teaching and scientific research of year 2013.
- Consolation prize on individual scientific publication in year 2010, 2012, 2013, 2015, 2016, 2017. Viet Nam National University – Ho Chi Minh.

Journal Reviewer:

- **ASCE:** Journal of Environmental Engineering (Since 2017).
- **Elsevier:** Bioresource Technology (Since 2009); International Biodeterioration and Biodegradation (Since 2010); Journal of Hazardous Materials (Since 2010); Environmental Technology & Innovation (Since 2017); Ecological Engineering (Since 2016); Chemosphere (Since 2015); Sustainable Environment Research (Since 2010); Chemical Engineering Journal (Since 2017); Journal of Environmental Management (Since 2017).

- **Springer:** Applied Microbiology and Biotechnology (AMAB) (Since 2009); Environmental Science and Pollution Research (ESPR) (Since 2018); International Journal of Environmental Science and Technology (Since 2019).
- **Taylor Francis:** Toxicological & Environmental Chemistry (Since 2017); Desalination and Water Treatment (DWT) (Since 2010); Environmental Technology (Since 2015); Critical Reviews in Environmental Science and Technology (Since 2018).
- **Blackwell Publishing:** Letters in Applied Microbiology (LAM) (Since 2009).
- **IWA Publisher:** Water Science and Technology (Since 2009).
- **SAGE:** Air, Soil and Water Research (US).
- **VERSITA:** Polish Journal of Chemical Technology (PJCT) (Since 2012).
- **Korean Society of Environmental Engineers:** Environmental Engineering Research (Since 2014)
- **InderScience:** International Journal of Environmental Engineering (IJEE), (Since 2011).
- **University of Technology Sydney:** Journal of Water Sustainability (JWS), (Since 2011).
- **Vietnamese Journals:** Journal of Science & Technology - Viet Nam Academy of Science & Technology (Since 2009), Vietnam Journal of Engineering, Science and Technology, other Vietnamese University journals.

Membership/Credentials

- **Member of Scientific Committees** in the field of Earth Sciences and Environment, National Foundation of Science and Technology Development (NAFOSTED), Ministry of Science and Technology, Vietnam on term of 2017-2019 (**National Level**).
- Member of Scientific Committee of several International conferences (IWA, IAEAC, CESE, SEEC, IBA, CLEAR, AMBRES).
- Associate Fellow, ASEAN Academy of Engineering and Technology (AAET).
- Member of American Geophysical Union (AGU), USA (since 2016).
- Member of Membrane Bioreactor Center
- International Water Association – IWA (ID No. 01061086).
- **Life member** of the “International Forum on Industrial Bioprocesses (IFIBiop)” (ID No.: LM-112).
- **Core member** (Asia region) of International Association of Environmental Analytical Chemistry – IAEAC, Switzerland. <http://www.iaeac.com>.
- European Desalination Society.
- MBR network forum, European Commission.
- European Federation of Biotechnology, Barcelona – Spain.
- UEM Network, Southeast Asia Urban Environmental Management Applications (SEA-UEMA) Project, SERD, AIT, Thailand.
- **Core member** of the “International Forum on Green Technology and Management (IFGTM)” founded by Association of Technology Universities in Vietnam.
- Evaluation expert, Foundation of Science and Technology Development - Ton Duc Thang University.
- Member of Technology Assessment Board, Dept. of Science and Technology & Dept. of Natural Resource and Environment (HCMC, Dong Nai, Binh Duong, Vung Tau, Vinh Long, Tra Vinh, etc.)
- Member of Environmental Impact Assessment board of Ministry of Natural Resources and Environment, Viet Nam.
- Member of Technology Assessment Board of Ministry of Science and Technology, Viet Nam.

Partners with Industries: Research Application and Collaboration

- Taiwan Environmental Protection Agency.
- Taiwan Association of Soil and Groundwater Environmental Protection (TASGEP) and Sinotech
- Mitsui Chemicals, Japan.
- LAR Process Analysers AG, Germany.
- POLYMEM, France: Joint research collaboration on membrane testing.
- KOLON Membrane, South Korea: Joint research collaboration and application on membrane bioreactors for energy saving (LENA Membrane process).
- DAEYANG ENBIO : Joint training on operation and monitoring of wastewater treatment plant.

- JIU Corporation, South Korea: Joint research collaboration and application on ED water treatment system.
- Kyowakiden Industry Co.: Joint research collaboration and application on Oil-containing wastewater treatment.
- Korea Environment Corporation (KECO): Joint research collaboration.
- Hitachi Zosen - Vietnam, Japan: Joint research on anaerobic digestion of organic wastes for energy recovery.
- Hyosung Goodsprings, South Korea: Collaboration.
- Coopmart, Vietnam: Research application for supermarket wastewater treatment system.
- HEINEKEN - Vietnam Brewery Limited Company (Research collaboration, training on wastewater treatment and system operation)

International Research Collaboration

- Emeritus Prof. R. Ben Aim, Ingénierie des Systèmes Biologiques et des Procédés, CNRS, INRA, INSA, Toulouse, France.
- Prof. C. Visvanathan, AIT, Thailand.
- Prof. Corinne Cabassud, INSA, Toulouse, France.
- Prof. Ngo Huu Hao, UTS, Sydney, Australia.
- Prof. Nghiem Duc Long, UTS, Australia.
- Prof. Akihiro Tada (vice-president), Nagasaki University, Japan.
- Prof. C. Polprasert, Thammasat University.
- Prof. C. Lin, National Kaohsiung Marine University (NKMU), Taiwan.
- Prof. L. P. Visvanathan, Durban University of Technology, South Africa.
- Prof. Mathieu Sperandio, INSA, Toulouse, France.
- Prof. C.Y. Chang, Chia Nan University of Pharmacy & Science, Taiwan.
- Prof. N.T.K Oanh, AIT, Thailand.
- Prof. D. Ludo, Flemish Institute for Technological Research (VITO), Belgium.
- Prof. Yong-Soo Yoon, Dankook University, South Korea.
- Prof. K. Furukawa, Kumamoto University, Japan.
- Prof. Y.H. Lee, Gwangju Institute of Science and Technology, South Korea.
- Prof. Tjandra Setiadi, Institute of Technology Bandung, Indonesia.
- Prof. Jega V. Jegatheesan, RMIT, Australia.
- Prof. Gernot Kayser, TU Dresden - International Institute Zittau, Germany.
- Prof. Duu-Jong Lee, National Taiwan University, Taiwan.
- Prof. Hor-Gil Hur, Gwangju Institute of Science and Technology, South Korea.
- Prof. Moo-Young Han, Seoul National University, South Korea.
- Prof. Deokjin Jahng, Myongji University, South Korea
- Prof. Heechul Choi, Gwangju Institute of Science and Technology, South Korea.
- Prof. Jih-Gaw Lin, National Chiao Tung University, Taiwan.
- Prof. Yoon-Seok Chang, POSTECH, Korea.
- Prof. Chihpin Huang, National Chiao Tung University (NCTU), Taiwan.
- Prof. Chengdi Dong, National Kaohsiung Marine University, Taiwan.
- Prof. Hui-Min David Wang, National Chung Hsing University, Taiwan.
- Prof. Zhiming Rao, Jiangnan University, China.
- Prof. Yonghong Wu, Chinese Academy of Sciences, China.
- Prof. Shiao-Shing Chen, National Taipei University of Technology, (TAIPEI TECH), Taiwan
- Prof. Chart Chiemchaisri, Kasetsart University, Thailand.
- Prof. C. Guigui, INSA, Toulouse, France.
- Prof. Luiz Felipe De Alencastro, EPFL, Switzerland.
- Prof. Ruey-An Doong, National Chiao Tung University, Taiwan.
- Prof. Joseph Tarradellas, International Association of Environmental Analytical Chemistry (IAEAC), Switzerland.

- Prof. Ashok Pandey, Editor-in-chief of Bioresource Technology, Elsevier.
- Prof. Ganthi S. Murthy, Oregon State University, USA.
- Prof. Indu Shekhar Thakur, Jawaharlal Nehru University, India.
- Prof. Vinod Kumar Garg, Central University of Punjab, India.
- Prof. Milton D (Mickey) Taylor, University of Georgia, USA.
- Prof. S. Venkata Mohan, CSIR-Indian Institute of Chemical Technology, India.
- Prof. Wolfgang Genthe, LAR Process Analyzers, AG, Germany.
- Prof. Sven-Uwe Geissen, Technical University of Berlin, Germany.
- Prof. Johannes Wellmann, Technical University of Berlin, Germany.
- Prof. Thammarat Koottatep, AIT, Thailand.
- Prof. Katayama Hiroyuki, Vietnam-Japan University.
- Prof. Raj Mohan B., NITK Surathkal, Mangalore, India.
- Prof. Meng-Wei Wan, Chia Nan University of Pharmacy & Science, Taiwan.
- Prof. S.J. You, Chung Yuan Christian University, Taiwan.
- Prof. C.T.S. Ching, National Chung Hsing University, Taiwan.
- Prof. Chun-Hsiung Hung, National Chung Hsing University, Taiwan.
- Prof. Wenshan Guo, UTS, Sydney, Australia.
- Prof. Chenju Liang, National Chung Hsing University, Taiwan.
- Prof. Kun-Yi (Andrew) Lin, National Chung Hsing University, Taiwan.
- Prof. Chiaying Chen, National Chung Hsing University, Taiwan.
- Prof. Tjandra Setiadi, Institute of Technology Bandung, Indonesia.
- Assoc./Prof. Vincenzo Naddeo, University of Salerno, Italy.
- Assoc/Prof. H. Berg, Stockholm Resilience Centre/SwedBio Stockholm University, Stockholm, Sweden.
- Assoc/Prof. I.M. Chen, Chia Nan University of Pharmacy & Science, Taiwan.
- Assoc. Prof. K. Hara, Osaka University, Japan.
- Assoc/Prof. Takahiro Fujioka, Nagasaki University, Japan
- Assoc./Prof. R. Nitisoravut, SIIT, Thammasat University, Thailand.
- Assoc./Prof. K. Puangrat, Naresuan University, Thailand.
- Assoc./Prof. P. Chawakitchareon, Chulalongkorn University, Thailand.
- Assoc./Prof. Michi Uwasu, Osaka University, Japan.
- Assoc./Prof. Masashi KURODA, Osaka University, Japan.
- Assoc./Prof. Dan C.W. Tsang, The Hong Kong Polytechnic University, Hong Kong.
- Assoc. Prof. K. Sombatsompop, King Mongkut University of Technology (KMUTT).
- Dr. Klaus Schönenberger, EPFL, Switzerland.
- Dr. Julien Némery, Institut Polytechnique de Grenoble, France.
- Dr. N. Gratiot, Institut Polytechnique de Grenoble, France.
- Dr. Emilie Strady, Centre Asiatique de Recherche sur l'Eau (RESCIF) - Institut Polytechnique de Grenoble, France.
- Dr. S. Bang, MIRECO, South Korea.
- Dr. L. Shu, RMIT, Australia.
- Dr. S. K. Boontanon, Mahidol University, Thailand.
- Dr. B. Wichitsathian, Suranaree University of Technology, Thailand.
- Dr. H.J. Kim, JIU Corporation, South Korea.
- Dr. S. Sthiannopkao, Dong-A University, South Korea.
- Dr. W.J. Lau, Universiti Teknologi Malaysia, Malaysia.
- Dr. Eldon R. Rene, UNESCO-IHE, The Netherlands.
- Dr. Kwang Jin Lee, Kolon membrane, South Korea.
- Dr. Jong-Woon Park, Daeyang Enbio, Korea.
- Dr. Gopalakrishnan Kumar, Daegu University, South Korea.
- Dr. Paiboon Sreearunothai, SIIT, Thammasat University, Thailand.
- Dr. Tawach Prechthai, Mahidol University, Thailand.

- Dr. Jean-Michel Espenan, Polymem president, France.
- Dr. Byong-Jin You, Myongji University president, Korea.
- Dr. Shanshan Chou, Waterpark Environment Corporation, Taiwan.
- Dr. Norhaniza Yusof, UTM, Malaysia.
- Dr. Kritana Prueksakorn, Prince of Songkla University (PSU), Thailand.
- Dr. Kyu Kyu Mar, University of Mandalay, Myanmar.
- Dr. Siang Chen Wu, National Chung Hsing University, Taiwan.