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Associate Professor in Environmental Engineering,
VNU-HCM Key Lab. of Advanced Waste Treatment Technology (Head)
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Research Interest

- Membrane separation processes
- Water and wastewater treatment processes
- Biological waste treatment
- Green technologies
- Algae processes
- Nano materials in environmental engineering
- Industrial pollution control and management
- Environmental technology & assessment

Professional Experiences

- 2020-present: Head, VNU-HCM Key Laboratory of Advanced Water Treatment Technology, Vietnam National University Ho Chi Minh (VNU-HCM)
- 2020-2022: Member of Scientific Committees of Applied Research, National Foundation of Science and Technology Development (NAFOSTED), Ministry of Science and Technology, Vietnam on term of 2020-2022 (**National Level**).
- 2017-present: Head, Strong research group on algae-bacteria wastewater treatment, VNU-HCM.
- 2017-2021: Member of Scientific Committees in the field of Earth Sciences and Environment, National Foundation of Science & Technology Development (NAFOSTED), Ministry of Science & Technology, Vietnam on terms of 2017-2019; 2019-2021 (**National level**).
- 2014-present: Head, Dept. of Water Science & Technology, Faculty of Environment & Natural Resources, Ho Chi Minh City University of Technology (HCMUT), VNU-HCM.
- 2013-present: Associate Professor, HCMUT, VNU-HCM.
- 2009-2013: Assistant Professor, Faculty of Environment, HCMUT, VNU-HCM.
- 2006-2008: Team Leader, Research group under Prof. C. Visvanathan, AIT, Thailand.
- 2001-2005: Researcher, Institute for Environment and Resources, VNU-HCM, 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, Ho Chi Minh City University of Technology, VNU-HCM, Viet Nam.

Editors:

Lead Editor:

- **Bui X.T***, Chiemchaisri C., Fujioka T., Varjani S. (2018). Book “Water and Wastewater Treatment Technologies”, Springer Nature.
- **Bui X.T***, Nguyen D.D, Ngo H.H, Nguyen P.D, Pandey A. (2021). “Advances in biological wastewater treatment systems”, Elsevier.

Editor Board Member:

- Bioresource Technology (BITE, Elsevier, SCIE, Q1), Since 2020.
- Environmental Technology & Innovation (ETI, Elsevier, SCIE, Q1), Since 2020.
- Journal of Environmental Science & Engineering (JESE, Scopus, ISSN: 0367827X), since 2020.
- GeoScience Engineering (Technical University of Ostrava), Since 2020.
- Waste Technology – ISSN: 2338-6207 (Diponegoro University, Indonesia), 2013-present.
- Vietnam Journal of Science Technology and Engineering (ACI index), Ministry of Science and Technology, Vietnam (ISSN: 2525-2461), 2018-present (Associate Editor).
- Science & Technology development journal - Science of the Earth & Environment, VNU-HCM, since 2021.
- Journal of Science and Technology in Civil Engineering (ACI indexed), Hanoi University of Civil Engineering, since 2021.

Guest Editor:

- Case Studies in Chemical and Environmental Engineering, Elsevier, 2021.
- Science of the Total Environment (STOTEN, Elsevier, SCIE, Q1), 2020.
- Bioresource Technology (BITE, Elsevier, SCIE, Q1), 2020.
- Environmental Technology & Innovation (ETI, Elsevier, SCIE, Q1), 2020.
- Environmental Science & Pollution Research (ESPR, Springer, SCIE, Q1), 2020.
- GeoScience Engineering, 2020.
- Journal of Environmental Management (JEMA, Elsevier, SCIE, Q1), 2019.
- Bioresource Technology Reports (BITEB, Elsevier, Scopus, Q2), 2018.
- Journal of Applied Membrane Science & Technology (UTM, Malaysia), 2018.

Patents/Technical Solutions

- **Bui Xuan Thanh**, Ngo Thi Tra My, Nguyen Cong Nguyen (2020). A submerged tubular membrane distillation (STMD) method and apparatus for desalination, **US Patent** (submitted 2020).
- **Bui Xuan Thanh** (2018). Wetland roof technology for treating domestic wastewater, **US Patent** 9884780B2, USPTO.
- **Bui Xuan Thanh***, Nguyen Thanh Tin, Thai Minh Quan (2019). Method for hospital wastewater treatment by membrane bioreactor coupling with moving sponge media, **Technical solution No. 2101** by Intellectual Property Agency, Ministry of Science and Technology, Vietnam. Grant by decision No. 66815/QĐ-SHTT on August 12th, 2019. [Phương pháp xử lý nước thải y tế bằng công nghệ sinh học màng (Membrane Bioreactor) kết hợp giá thể di động (Sponge), Giải Pháp Hữu Ích số 2101, Cục Sở hữu trí tuệ, Bộ Khoa học và Công Nghệ, QĐ No. 66815/QĐ-SHTT ngày 12/8/2019].
- **Bui Xuan Thanh** & Nguyen Phuong Thao (2020). Phuong Phap Xu Ly Nuoc Thai Sau Be Tu Hoai Bang Be Loc Sinh Hoc Xuoi Dong Gia The Day Sinh Hoc (Down-flow Hanging Media Bioreactor), Application No. 2-2020-00187 on date May 7th, 2020 (Submitted).

Selected Publications

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

- 1) Hoang H.G., Lin C., Chiang C.F., **Bui X.T.***, Lukkhasorn W., Bui T.P.T., Tran H.T., Vo T.D.H., Le V.G., Nghiem D.L. (2021). Heavy metal contamination in global rivers and the assessment indexes: A review, *Current Pollution Reports*, **submitted**. (SCIE, IF: 6.000, ISSN: 2198-6592)
- 2) Hoang H.G., Chiang C.F., Lin C., Wu C.Y., Lee C.W., Cheruiyot N.K., Tran H.T., **Bui X.T.** (2021). Human Health Risk Simulation and Assessment of Heavy Metal Contamination in a River Affected by Industrial Activities, *Environmental Pollution*, 285, 117414. (SCIE, Q1, IF: 6.792, ISSN: 0269-7491).
- 3) Yin J.Y., Oh W.D., Kwon E., **Bui X.T.**, You S., Wang H., Lin K.Y.A. (2021). Cobalt Sulfide Nanofilm-assembled Cube as an Efficient Catalyst for Activating Monopersulfate to degrade UV Filter, 4,4'-Dihydroxybenzophenone, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 126891, **online** (SCIE, Q2, IF: 3.990, ISSN: 0927-7757)
- 4) Yin J.Y., Chen P.Y., Kwon E., **Bui X.T.**, Lisak G., Oh W.D., K.Y.A. Lin. (2021). Cobalt Sulfide Nanosheets derived from Sulfurization of Prussian Blue Analogue as an Enhanced Catalyst for Activating Monopersulfate to degrade Caffeine, *Journal of the Taiwan Institute of Chemical Engineers*, (SCIE, Q1, IF: 4.794; ISSN: 1876-1070)
- 5) Nguyen D.D, Nguyen V.T., Vo T.D.H, Bui X.T., Bui M.H, Nguyen L.S.P, Nguyen X.C, Tran T.K.A, Nguyen T.T.A, Ju Y.R, Huynh T.M.T, Nguyen D.H, Bui H.N & Lin C. (2021). Contamination, source attribution, and potential health risks of heavy metals in street dust of a metropolitan area in Southern Vietnam, *Environmental Science & Pollution Research*, **online**. (SCIE, Q1, IF: 3.306, ISSN: 0944-1344).
- 6) Nguyen T.T., **Bui X.T.***, Ngo H.H, Nguyen T.T.D, Nguyen K.Q., Nguyen H.H, Huynh K.P.H, Némery J., Fujioka T., Duong C.H., Varjani S., Dang B.T. (2021). Nutrient recovery and microalgae biomass production from urine by membrane photobioreactor at low biomass retention times, *Science of The Total Environment*, 785, 147423 (SCIE, Q1, IF: 6.511, ISSN: 0048-9697).
- 7) Chau T.D., Trinh H.V., Duong T.D., Nguyen M.T., Dang T.T., Nguyen L.M.T., Berg H., Nguyen Q.H., **Bui X.T.*** (2021). Recycled Pangasius pond sediments as organic fertilizer for vegetables cultivation: strategies for sustainable food production, *Clean Technologies and Environmental Policy*, **online** (SCIE, IF: 2.559, ISSN: 1618-954X)
- 8) Nguyen H.T., Lee J., Kwon E., Lisak G., **Bui X.T.**, Ghanbari F., Lin K.Y.A (2021). Bamboo-like N-doped Carbon Nanotube-confined Cobalt as an Efficient and Robust Catalyst for Activating Monopersulfate to Degrade Bisphenol A, *Chemosphere*, 279, 130569. (SCIE, Q1, IF: 5.778; ISSN: 0045-6535).
- 9) Hsiao C.Y., Wang H., Kwon E., **Bui X.T.**, You S., Hu C., Lin K.A. (2021). Degradation of an Imidazolium-based Ionic Liquid in Water using Monopersulfate catalyzed by Dahlia Flower-like Cobalt Oxide, *Separation and Purification Technology*, **online**. (SCIE, Q1, IF: 5.774, ISSN: 1383-5866).
- 10) Ngo T.T.M., Ueyama T., Makabe R., **Bui X.T.**, Nghiem D.L., Tran T.V.N., Fujioka T. (2021). Fouling behavior and performance of a submerged flat-sheet nanofiltration membrane system for direct treatment of secondary wastewater effluent, *Journal of Water Process Engineering*, 41, 101991. (SCIE, Q1, IF: 3.688, ISSN: 2214-7144).
- 11) Nguyen T.T., Phung T.K., **Bui X.T.**, Doan V.D., Tran V.T., Nguyen V.D., Lim K.T., Nguyen D.T., (2021). Removal of cationic dye using polyvinyl alcohol 1 membrane functionalized by D-glucose and agar, *Journal of Water Process Engineering*, 40, 101982 (SCIE, Q1, IF: 3.688, ISSN: 2214-7144).
- 12) Nguyen V.T., **Bui X.T.***, Nguyen H.A., Lin C., Nguyen H.H., Hien V.T.D., Tran L.L., Nguyen T.B., Bui M.H, Nguyen D.T., Nguyen D.D., Chang S.W. (2021). Influence of plant types, bed media and feeding patterns on wastewater treatment performance of wetland roofs, *Journal of Water Process Engineering*, 40 (2021) 101972. (SCIE, Q1, IF: 3.688, ISSN: 2214-7144).
- 13) Nguyen H.T., Lee J., Kwon E., Lisak G. **Bui X.T.**, Oh W.D., Lin K.Y. (2021). Metal-complexed Covalent Organic Frameworks derived N-doped Carbon Nanobubble-embedded Cobalt Nanoparticle as a Magnetic and Efficient Catalyst for Oxone Activation, *Journal of Colloid and Interface Science*, 591, 161-172. (SCIE, Q1, IF: 7.489, ISSN: 10957103).
- 14) Duc T.H., Vu T.K., Dang C.T. Nguyen V.H., La D.D., Kim G.M., Chang S.W., **Bui X.T.**, Dang T.D., Nguyen D.D. (2021). Synthesis and application of hydrogel calcium alginate microparticles as a

- biomaterial to remove heavy metals from aqueous media, *Environmental Technology & Innovation*, 22, 101400 (SCIE, Q1, IF: 3.356, ISSN: 2352-1864).
- 15) Cheng D., Liu Y., Ngo H.H., Guo W., Chang S.W., Nguyen D.D., Zhang S., Luo G., **Bui X.T.** (2021). Sustainable enzymatic technologies in waste animal fat and protein management, *Journal of Environmental Management*, 284, 112040. (SCIE, Q1, IF: 5.647, ISSN: 0301-4797).
 - 16) Dang B.T., **Bui X.T.***, Tomoaki I.*, Ngo H.H., Jahng D., Lin C.*, Chen S.S., Lin K.Y., Nguyen T.T., Nguyen D.D., Saunders T. (2021). Microbial community response to Ciprofloxacin toxicity in sponge membrane bioreactor, *Science of the Total Environment*, 773, 145041. (SCIE, Q1, IF: 6.511, ISSN: 0048-9697).
 - 17) Lin C.*, Cheruiyot N.K., Hoang H.G., Le T.H., Tran H.T., **Bui X.T.*** (2021). Benzophenone biodegradation and characterization of malodorous gas emissions during co-composting of food waste with sawdust and mature compost, *Environmental Technology & Innovation*, 21, 101351 (SCIE, Q1, IF: 3.356, ISSN: 2352-1864).
 - 18) Nguyen H.D., Tran T.M.P., **Bui X.T.**, Hoinkis J., Tran L.L. (2021). The application of intermittent cycle extended aeration systems (ICEAS) in wastewater treatment, *Journal of Water Process Engineering*, 40, 101909. (SCIE, Q1, IF: 3.688, ISSN: 2214-7144).
 - 19) Nguyen V.T., Nguyen T.B., Huang C.P., Chen C.W., **Bui X.T.**, Dong C.D. (2021). Alkaline modified biochar derived from spent coffee ground for removal of tetracycline from aqueous solutions, *Journal of Water Process Engineering*, 40, 101908. (SCIE, Q1, IF: 3.688, ISSN: 2214-7144)
 - 20) Tran T., Le D.A., Nguyen H.H., Tran P.H., Nguyen C.D., Lam V.T., Vo T.D.H., **Bui X.T.** (2021). Study on optimal conditions of poly ferric chloride (PFC) dosage treating tannery wastewater, *Materials Today: Proceedings*, 38(5), 2981-2987 (Scopus, ISSN: 2214-7853).
 - 21) Duong D.L., Jadhav R.W., Gosavi N.M., Rene E.R., Nguyen T.A., **Bui X.T.**, Nguyen D.D., Chung W. J., Chang S. W., Nguyen X.H., Tran D.L., Bhosale S.V. (2021). Nature-inspired organic semiconductor via solvophobic self-assembly of porphyrin derivative as an effective photocatalyst for degradation of rhodamine B dye, *Journal of Water Process Engineering*, 40, 101876. (SCIE, Q1, IF = 3.688, ISSN: 2214-7144).
 - 22) Hoang N.T.T., Tran T.K.A., Hoang M.H., Nguyen H.T.T., **Bui X.T.*** (2021). Synergistic effect of TiO₂/chitosan/glycerol photocatalyst on color and COD removal from a dyeing and textile secondary effluent, *Environmental Technology & Innovation*, 21, 101255 (SCIE, Q1, IF: 3.356, ISSN: 2352-1864).
 - 23) Tra V.T., Dang B.T., Binh Q.A., Nguyen Q.H., Nguyen P.T., Nguyen H.H., Nguyen T.T., Le T.H. Le D.T., Itayama T., **Bui X.T.***. (2021). Influence of hydraulic loading rate on performance and energy-efficient of a pilot-scale down-flow hanging media reactor treating domestic wastewater, *Environmental Technology & Innovation*, 21, 101273. (SCIE, Q1, IF: 3.356, ISSN: 2352-1864).
 - 24) Ye Y, Ngo H.H*, Guo W., Chang S.W., Nguyen D.D., Varjani S., Ding A., **Bui X.T.**, Nguyen P.D. (2021). Bio-membrane based integrated systems for nitrogen recovery in wastewater treatment: Current applications and future perspectives, *Chemosphere*, 265, 129076. (SCIE, Q1, IF: 5.778; ISSN: 0045-6535).
 - 25) Tran H.T., Lin C.T.* **Bui X.T.***, Itayama T., Dang B.T., Cheruiyot N.K., Hoang H.G., Vu C.T. (2021). Bacterial community progression during food waste composting containing high dioctyl terephthalate (DOTP) concentration, *Chemosphere*, 265, 129064. (SCIE, Q1, IF: 5.778; ISSN: 0045-6535).
 - 26) Fujioka T., Ngo T.T.M, Ueyama T., Makabe R., Tran T.V.N. **Bui X.T.**, Tanaka H. (2021). Submerged nanofiltration without pre-treatment for direct advanced drinking water treatment, *Chemosphere*, 265, 129056. (SCIE, Q1, IF: 5.778; ISSN: 0045-6535).
 - 27) **Bui X.T.***, Fujioka T., Nghiem D.L. (2021). Green technologies for sustainable water (Editorial), *Environmental Technology & Innovation*, 21, 101192 (SCIE, Q1, IF: 3.356, ISSN: 2352-1864).
 - 28) Dang B.T., Gotore O., Ramaraj R., Unpaprom Y., Whangchai N., Bui X.T., Maseda H., Itayama T. (2021). Sustainability and application of corncob derived biochar for removal of fluoroquinolones, *Biomass Conversion and Biorefinery*, online. (SCIE, Q2, IF: 2.602, 2190-6815).
 - 29) Cao N.D.T, Chen S.S., Chang M.H., Ray S.S., Hai F.I., **Bui X.T.**, Mukhtar H. (2021). Simultaneous Hexavalent Chromium Removal, Water Reclamation and Electricity Generation in Osmotic Bio-electrochemical System, *Separation and Purification Technology*, 263, 118155. (SCIE, Q1, IF: 5.774, ISSN: 1383-5866).

- 30) Kuroda M., Uwasu M., **Bui X.T.**, Nguyen P.D., Hara K. (2020). Shifting the Perception of Water Environment Problems by Introducing “Imaginary Future Generations” – Evidence from Participatory Workshop in Ho Chi Minh City, Vietnam, *Futures*, 126, 102671. (**SCIE, Q1, IF: 3.091**, ISSN: 0016-3287)
- 31) Le V.G., Vo D.V.N., Vu C.T., **Bui X.T.**, Shih Y.J., Huang Y.H. (2021). Applying a Novel Sequential Double-Column Fluidized Bed Crystallization Process for the Recovery of Nitrogen, Phosphorus, and Potassium from Swine Wastewater, *ACS ES&T Water*, 1(3), 707-718. (ISSN: 2690-0637)
- 32) Balakrishnan R.M., **Bui X.T.**, Ilango I., Gamana G., Pugazhendhi A. (2021). Cobalt Ferrite Nanoparticles and Peroxymonosulfate System for the removal of Ampicillin from aqueous solution, *Journal of water Process Engineering*, 40, 101823. (**SCIE, Q1, IF: 3.688**, ISSN: 2214-7144)
- 33) Nguyen D.N., Nguyen H.T., Pham T.L, **Bui X.T.**, Duong T.T., Jiang J.J., Perng Y.S., Boujelbane F., Bui M.H. (2021). Removal of leucomalachite green in an aqueous solution by the electron beam process, *Journal of Water Process Engineering*, 40, 101781. (**SCIE, Q1, IF: 3.688**, ISSN: 2214-7144).
- 34) Nguyen X.C., Nguyen T.T.H., **Bui X.T.**, Tran X.V., Tran T.C.P., Hoang T.T.N., La D.D, Chang S.W., Ngo H.H & Nguyen D.D. (2020). Status of water use and potential of rainwater harvesting for replacing centralized supply system in remote mountainous areas: a case study, *Environmental Science & Pollution Research*, 66, **on line**. (**SCIE, Q1, IF: 3.306**, ISSN: 0944-1344;)
- 35) Varjani S., Rakholiya P., Ng H.Y, Taherzadeh M.J, Ngo H.H., Chang J.S., Wong J.W.C., You S., Teixeira J.A., **Bui X.T.** (2021). Bio-based rhamnolipids production and recovery from waste streams: Status and Perspectives, *Bioresource Technology*, 319, 124213. (**SCIE, Q1, IF: 7.539**, ISSN: 0960-8524)
- 36) Nguyen P.D., Truong T.N.S., Nguyen T.T., Dang B.T., Le T.M.T., **Bui X.T.**, Mukai F., Kobayashi H., Ngo H.H. (2021). Long-term operation of the pilot scale two-stage anaerobic digestion of municipal bio-waste in ho chi minh city, *Science of the Total Environment*, 766, 142562 (**SCIE, Q1, IF: 6.511**, ISSN: 0048-9697).
- 37) Nguyen V.T., Vo T.D.H., Tran T.D., Nguyen T.N.K., Nguyen T.B., Dang B.T., **Bui X.T.*** (2020). Arsenic-contaminated groundwater and its potential health risk: A case study in Long An and Tien Giang provinces of the Mekong Delta, Vietnam, *Environmental Science and Pollution Research*, **on line** (**SCIE, Q1, IF: 3.306**, ISSN: 0944-1344;)
- 38) Jenifer A.A., Selvi C.T., Vasanthi M., Ravindran B, Nguyen V.K., Nguyen X.C, **Bui X.T.**, Ngo H.H, Nguyen X.H, Chang S.W, Nguyen D.D. (2020). Evaluation of efficacy of indigenous acidophile-bacterial consortia for removal of pollutants from coffee cherry pulping waste water, *Bioresource Technology Reports*, 11, 100533. (**SCIE, Q2, IF: ,** ISSN: 2589-014X).
- 39) Gowri A.K, Karunakaran M.J, Muthunarayanan V., Ravindran B., Nguyen T.P, Ngo H.H, **Bui X.T.**, Nguyen X.H, Nguyen D.D, Chang S.W, Chandran T. (2020). Evaluation of bioremediation competence of indigenous bacterial strains isolated from fabric dyeing effluent, *Bioresource Technology Reports*, 11, 100536. (**SCIE, Q2, IF: ,** ISSN: 2589-014X).
- 40) Ngo H.H., Bui X.T., Nghiem D. Long, Guo W. (2020). Green Technologies for Sustainable Water (Editorial), *Bioresource Technology*, 317, 123978. (**SCIE, Q1, IF: 7.539**, ISSN: 0960-8524)
- 41) Truc N.V., Le T.H., **Bui X.T.***, Nguyen T.N., Vo T.D.H., Lin C.T., Nguyen H.H., Vu T.M.H, Nguyen D.D., Senoro D.B., Dang B.T. (2020). Effects of C/N ratios and turning frequencies on the composting process of food waste and dry leaves, *Bioresource Technology Report*, 11, 100527. (**SCIE, Q2, IF: ,** ISSN: 2589-014X).
- 42) Cao N.D.T, Chen S.S., Chang H.-M., **Bui X.T.**, Chien I-C. (2020). A Promising Bio-electrochemical Reactor Integrating Membrane Distillation and Microbial Fuel Cell for Dual Advantages of Power Generation and Water Recovery, *Environmental Science: Water Research & Technology*, 2020, **6**, 2776-2788. (**SCIE, Q1, IF: 4.195**, ISSN: 2053-1419 (RSC))
- 43) Ngo T.T.M., **Bui X.T.***, Dang K.T., Nguyen T.T., Chen S.S., Nguyen C.N., Nguyen P.D., Bui M.H., Nguyen D.T., Dang B.T. (2020). Development of a submerged tubular direct-contact membrane distillation system for saltwater treatment, *Desalination and Water Treatment*, 200 (2020) 55–64. (**SCIE, Q2, IF: 1.631**, ISSN: 0301-4797).
- 44) Le L.T., Lee S., **Bui X.T.**, Jahng D. (2020). Suppression of nitrite-oxidizing bacteria under the combined conditions of high free ammonia and low dissolved oxygen concentrations for mainstream

- partial nitritation, *Environmental Technology & Innovation*, 20, 101135 (**SCIE, Q1, IF: 3.356**, ISSN: 2352-1864).
- 45) Hoang H.G., Lin C., Tran H.T., Chiang C.F., **Bui X.T.**, Cheruiyot N., Shern C.C., Lee C.W. (2020). Heavy Metal Contamination Trends in Surface Water and Sediments of a River in a Highly-industrialized Region, *Environmental Technology & Innovation*, 20, 101043 (**SCIE, Q1, IF: 3.356**, ISSN: 2352-1864).
 - 46) Tran H.T., Lin C.T., **Bui X.T.**, Ngo H.H. Cheruiyot N., Hoang H.G., Vu C.T. (2020). Aerobic composting remediation of petroleum hydrocarbon-contaminated soil. Current and future perspective, *Science of the Total Environment*, 753, 142250 (**SCIE, Q1, IF: 6.511**, ISSN: 0048-9697).
 - 47) Tran H.T., Lin C., Hoang H.G., Nguyen T., Kaewlaoyong A., Cheruiyot N., **Bui X.T.**, Vu C.T. (2020). Biodegradation of Dioxin-contaminated soil via composting: Identification and phylogenetic relationship of bacterial communities, *Environmental Technology & Innovation*, 19, 1010233 (**SCIE, Q1, IF: 3.356**, ISSN: 2352-1864).
 - 48) Nguyen T.T.D., Nguyen T.T., Binh Q.A., **Bui X.T.***, Ngo H.H, Vo H.N.P, Lin K.Y.A, Vo T.D.H, Guo W., Lin C.T., Breider F. (2020). Co-culture of microalgae-activated sludge for wastewater treatment and biomass production: Exploring their role under different inoculation ratios, *Bioresource Technology*, 314, 123754. (**SCIE, Q1, IF: 7.539**, ISSN: 0960-8524)
 - 49) **Bui X.T.***, Vo T.D.H., Thao N.P., Nguyen V.T., Dao T.S., Nguyen P.D. (2020). Microplastics pollution in wastewater: characteristics, occurrence and removal technologies, *Environmental Technology & Innovation*, 19, 101013 (**SCIE, Q1, IF: 3.356**, ISSN: 2352-1864).
 - 50) Pham M.Q., Ngo T.M., Nguyen V.H., Nong L.X., Vo D.V.N., Tran V.T., Nguyen T.D., **Bui X.T.**, Nguyen D.T. (2020). Facile solvothermal synthesis of highly active monoclinic scheelite BiVO₄ for photocatalytic degradation of methylene blue under white LED light irradiation, *Arabian journal of Chemistry*, 13(11), 8388-8394. (**SCIE, Q1, IF: 4.039**, ISSN: 1878-5352).
 - 51) Cao N.D.T, Chen S.S., Chang H.M., Ray S.S., Le Q.H., Duong C.C., Bui X.T., (2020). Evaluating the Performance of Polystyrene Sulfonate Coupling with Non Ionic Triton-X114 Surfactant as Draw Solution in Forward Osmosis and Membrane Distillation Systems, *Environmental Technology & Innovation*, 19,100993 (**SCIE, Q1, IF: 3.356**, ISSN: 2352-1864).
 - 52) Nguyen T.A.H., Ngo H.H., Guo W., Nguyen T.H.H., Soda S., Vu N.D., Bui T.K.A., Vo TDH., **Bui X.T.**, Nguyen T.T., Pham T.T. (2020). White hard clam (*Meretrix lyrata*) shells media to improve phosphorus removal in lab-scale horizontal sub-surface flow constructed wetlands: performance, removal pathways, and lifespan, *Bioresource Technology*, 312, 123602. (**SCIE, Q1, IF: 7.539**, ISSN: 0960-8524)
 - 53) Vo H.N.P, Ngo H.H., Guo W., Nguyen K.H., Chang S.W., Nguyen D.D., Liu Y., Ding A., **Bui X.T.** (2020). Micropollutants cometabolism of microalgae for wastewater remediation: Effect of carbon sources to cometabolism and degradation products, *Water Research*, 183, 115974. (**SCIE, Q1, IF: 9.13**, ISSN: 0043-1354)
 - 54) Son N.T. & **X.T. Bui** (2020). Remote sensing for drought evaluation over rice cultivated areas in Cambodia during 2000 to 2019, *Geocarto International (TGEI)*, **online** (**SCIE, Q1, IF: 2.365**, ISSN: 1010-6049)
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- 5) Wenshan Guo, Dongle Cheng, Huu Hao Ngo, Soon Woong Chang, Dinh Duc Nguyen, Dan Phuoc Nguyen, **Xuan Thanh Bui** (2020). Chapter 9: “Anaerobic membrane bioreactors for antibiotic wastewater treatment” in Book “Current Developments in Biotechnology and Bioengineering: Advanced Membrane Separation Processes for Sustainable Water and Wastewater Management – Anaerobic Membrane Bioreactor Processes and Technologies”, p.219-233, Elsevier. ISBN: 978-0-12-819852-0.
- 6) Thanh-Binh Nguyen, **Xuan-Thanh Bui***, Thi-Dieu-Hien Vo, Ngoc-Dan-Thanh Cao, Bao-Trong Dang, Van-Tung Tra, Huu-Tuan Tran, Le-Luu Tran, Huu-Hao Ngo (2020). Chapter 7: Anaerobic Membrane Bioreactors for Industrial Wastewater Treatment, in Book “Current Developments in Biotechnology and Bioengineering: Advanced Membrane Separation Processes for Sustainable Water

- and Wastewater Management – Anaerobic Membrane Bioreactor Processes and Technologies”, 168-188, Elsevier. ISBN: 978-0-12-819852-0.
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 - 8) **Xuan-Thanh Bui*** (Lead Editor), Chart Chiemchaisri, Takahiro Fujioka & Sunita Vajarni (2018). Water and Wastewater Treatment Technologies, Springer. ISBN: 978-981-13-2982-1
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 - 11) 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”, p. 297-329, Springer. ISBN: 978-981-13-2982-1.
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 - 18) **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.
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Research grants and Technology transfer projects (PI/Co-PI and core member only)

No	Research projects	Code	Time	Funding organization
1)	Development of algae-bacteria systems for wastewater treatment	NCM2021-20-01/HĐ-KHCN	2021-2026	VNU-HCM
2)	Nanoassisted bioremediation of diffused dioxins in soil and sediment (Co-PI)	PEER-551	2021-2023	PEER-NAS, USA
3)	Testing of F-cap fibre filtration system for various water source	Kyowakiden-2021	2021	Kyowakiden, Japan
4)	Khảo Sát Lưu Lượng Nước, Chất Lượng Nước Và Đề Xuất Phương Án Cải Tạo Hệ Thống Xử Lý Nước Sạch 2.000 m ³ /ngày của Khu Công Nghệ Cao Công Nghệ Sinh Học [Technical solution for improving the water treatment plant capacity of 2000 m ³ /d]	RECTIE 2020	2020	Agri-Biotech center, Dong Nai province
5)	Development of membrane bioreactor coupling with salt tolerant microorganisms treating saline wastewater	B2020-20-03	2020-2021	VNU-HCM
6)	Fouling Control and Nutrient Removal by Reciprocating Membrane Bioreactor	VNUHCM 3	2020	SATU 2020, Taiwan
7)	Enhance Organic and Nutrient Removal from Wastewater by Algal Granulation	VNUHCM 4	2020	SATU 2020, Taiwan
8)	Development of Novel Multifunctional Nanostructured Materials for the Photocatalytic Degradation of Emerging Pollutants (<i>Co-PI as Asean Partner</i>)	CRD/2018/000066	2019-2020	Asean-India Science & Technology Development Fund
9)	International Cooperation on Soil and Groundwater Remediation	EPA107A2 15	2019	Taiwan Association on Soil & Groundwater Environmental Protection & Taiwan EPA
10)	Application of energy-saving membrane technology in nutrient treatment and microplastics removal	Tc-MTTN-2019-07	2018-2019	University's Research Project - CARE
11)	Application of membrane photobioreactor for wastewater treatment coupling with algae biomass cultivation for production of biomaterials	NAFOSTE D 105.99-2019.27	2019-2022	NAFOSTED, Ministry of Science & Technology – Viet Nam
12)	Development of low cost Membrane Distillation System for Saline Water Treatment in Mekong River Delta - Viet Nam	GIST-2019	1-12/2019	Gwangju Institute of Science & Technology (GIST), Korea
13)	Low-Cost treatment technology for seawater desalination [Ứng dụng công nghệ khử mặn chi phí thấp trong xử lý nước biển]	SVOISP-2018-MT&TN-14	9/2018-5/2019	UT, VNU-HCM
14)	Application of New Generation of Wetland Roof System for Treating Domestic Wastewater Coupling with Enhancing Green Urban Area to Reduce the Climate	GIST-2018	8/2018-12/20	GIST, Korea

	Change Effect in the Urban Tropics		18	
15)	Saline water treatment by direct contact membrane distillation [Xu ly nuoc nhiem man bang cong nghe chung cat mang truc tiep]	Tc-MTTN-2018-08	2018-2019	University's Research Project - CARE
16)	Groundwater Contributions to the Sai Gon River & Implications for the Degradation of Drinking Water Supplies for HCMC, Vietnam in coordinated with project Isotope Techniques for the Evaluation of Water Sources for Domestic Supply in Urban Areas (member)	F33024 – IAEA	2018-2019	IAEA (International Atomic Energy Agency), Austria
17)	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
18)	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	UT's Master student research project
19)	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	UT's Master student research project
20)	Synthesis of β -cyclodextrin nickel ferrite nanoparticles for the removal of pharmaceutical compounds from aqueous systems (<i>Co-PI as Asean Partner</i>)	Asean-India - 2018	2018-2020	Asean-India Science & Technology Development Fund
21)	Aquaponis system integrated fish farming to vegetable in green house (<i>Co-PI</i>)	SIDA-MEKARNI I - 2017	2017-2018	SIDA
22)	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, Korea
23)	GEN technology for high-concentrated waste treatment	Kyowakiden, Japan – 2017	2017-2018	Kyowakiden-Vietnam, Japan
24)	Two stage anaerobic digestion for organic waste treatment: performance and energy/product recovery	Hitachi Zosen – 2017	2016-2017	Hitachi Zosen, Japan
25)	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
26)	H2Ospital project: Water supply and hygiene for district hospitals in rural area – Vietnam & Tanzania	H2Ospital-2017	3/2017-3/2018	EPFL, Switzerland
27)	Operation of Pilot Scale Groundwater Treatment System in Ho Chi Minh City, Vietnam	Korea-JIU-2017	3/2017-9/2017	KEITI-Korea
28)	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
29)	Survey, performance evaluation and proposing appropriate technology improvement for 15 wastewater treatment systems of Saigon-Coop super market chain	COOP-RECTIE	6/2016-10/20	COOP

	[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]		17	
30)	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
31)	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
32)	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
33)	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
34)	Nghiên cứu loại bỏ kháng sinh trong nước thải bệnh viện bằng công nghệ màng Sponge MBR kết quá trình Ozone [Antibiotic removal in hospital wastewater by Sponge MBR coupling with Ozonation]	NAFOSTE D:105.99-2015.16	1/2016-1/2018	NAFOSTED, Ministry of Science & Technology – Viet Nam
35)	Reduction of Antibiotics in hospital wastewater by Sponge Membrane Bioreactor	GIST-2016	1/2016-12/2016	GIST, Korea
36)	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 water due to chemical waste discharge accident]	HCMC People’s Committee	2014-2015	Ho Chi Minh City People Committee – Tan Hong Thai Co.
37)	Reduction of Antibiotics in hospital wastewater by Sponge Membrane Bioreactor: Case study in Ho Chi Minh City – Vietnam	GIST-2015	1/2015-12/2015	GIST, Korea
38)	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
39)	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	VNU-HCM
40)	Thai Ngoc Phuong company provides two BIOGILL wastewater treatment systems for research in water treatment and domestic wastewater treatment.		4/2013-3/2015	Technology transfer, Thai Ngoc Phuong Co.
41)	Toward green city through application of a wetland roof	KECO	9/201	KECO, Ministry of

	system coupling with domestic wastewater treatment		3-8/2014	Environment, South Korea
42)	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	Technology transfer, Xuen A Industrial Park, Long An Province
43)	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
44)	Trihalomethanes (THMs) and its forming potential in water treatment plants in Mekong Delta Provinces	GIST-2014	1/2014-12/2014	GIST, Korea
45)	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 & Technology – HCMC, Viet Nam
46)	Review on available sanitation technology in Vietnam, AIT	AIT-BMGF	1/2013-8/2013	AIT - Bill & Melinda Gates Foundation (BMGF)
47)	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 wastewater treatment: A solution for climate change mitigation]	NAFOSTE D: 105.99-2011.03	11/2011-11/2013	NAFOSTED, Ministry of Science & Technology – Viet Nam
48)	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	UT, VNU-HCM
49)	Ứng Dụng Công Nghệ Màng Lọc Cơ Gia Thể (Attached Growth Membrane Bioreactor) Xử Lý Nước Thải Ao Nuôi Cá Tra [Application of attached growth membrane Bioreactor treating catfish farm wastewater]	TSDH-2011-MTr-07	2011-2012	UT's Master student research project
50)	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
51)	Application of Respirometer to monitor biological treatment processes [Nghiên cứu ứng dụng mô hình hô hấp để giám sát chất lượng các công trình xử lý sinh học]	B2011-20-30	4/2011-3/2012	UT, VNU-HCM
52)	Application of aerobic granule for nitrogen removal in seafood processing wastewater [Ứng Dụng Bùn Hạt Hiếu Khí Khu Nito Trong Nước Thải Thủy Sản]	B2010-20-13/	4/2009-3/2010	UT, VNU-HCM
53)	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
54)	Xử Lý Nước Thải Đệt Nhuộm Ứng Dụng Công Nghệ Màng (MBR) Kết Hợp Oxi Hóa bậc Cao (Advanced Oxidation Processes)	B2-12 (counterpart)	8/2010-7/2011	University's research project

			1	
55)	Sustainable water management in urban fringe areas through industrial wastewater reuse	AIT-HCMUT-INS A	2009-2010	FRANCE/AIT - Network Regional Programme Project
56)	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	GIST, Korea
57)	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	GIST, Korea
58)	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	Technology transfer, Trang Bang Industrial Park
59)	Monitoring of Arsenic in groundwater of Long An, Mekong Delta province, Viet Nam	GIST-2010	1/2010-12/2010	GIST, Korea
60)	Monitoring of water quality of Mekong Delta provinces and South-east Provinces of Ho Chi Minh City, Viet Nam (Technology transfer project)	METAWATER	2010	MEATWATER Co. Ltd, Japan
61)	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	Technology transfer, Le Minh Xuan Industrial Park
62)	Improving the local community environment through development communities action plan of Water & Sanitation (WATSAN) (2009)	WWF-2009	2009	World Wildlife Fund
63)	Eco-industrial clusters in the rural urban fringe areas of Viet Nam (2007)	AIT-HCMUT-IGES	2007	IGES, Japan
64)	Sustainable water management policy project (2006), HCMUT	IGES-2006	2006	Institute for Global Environmental Strategies (IGES), Japan
65)	CIDA-AIT partnership Southeast Asia Urban environmental management applications (SEA-UEMA) project (2006)	SEA-UEMA	2006	CIDA-AIT, Thailand
66)	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 Asia Pacific Biochar Conference (APBC2020), The Hong Kong Polytechnic University, Hong Kong, May 10-11, 2021.
- 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) **Invited Speaker** – The 5th International Water Industry Conference 2019 (IWIC 2019), Daegu, Korea, September 3-6, 2019.

- 5) **Invited Speaker** – 2019 Symposium on Water and Sediments Quality, Mapúa University, Manila, Philippines, August 15-16, 2019.
- 6) **Keynote Speaker** – Tech Planter Demo Day 2019 (organized by Leave A Nest, Japan), Saigon Innovation hub, June 1st 2019 in Ho Chi Minh City, Vietnam.
- 7) **Invited Speaker** – International symposium on “The current situation of infrastructure maintenance and management technology”, Nagasaki University, Japan, March 27, 2019.
- 8) **Keynote Speaker** - International Conference on Biomedical and Environmental Engineering, December 17-18, 2018, College of Engineering, National Chung Hsing University, Taiwan.
- 9) **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.
- 10) **Keynote Speaker** – Second International Conference of International Society for Energy, Environment and Sustainability (ISEES) on “Sustainable Energy and Environmental Challenges” (SEEC 2018)
- 11) **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.
- 12) **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”.
- 13) **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”.
- 14) **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.
- 15) **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”.
- 16) **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”.
- 17) **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”.
- 18) **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.
- 19) **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.
- 20) **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.
- 21) **Trainer** - Training workshop on operation and control of Coopmart wastewater treatment systems, December 2012, HCMC.
- 22) **Trainer** - Training workshop for operators of Central wastewater treatment plant – Bien Hoa Sugar factory, 2011, Bien Hoa, Dong Nai province.
- 23) **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.

- 24) 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.
- 25) Trainer - Training workshop on operation and management of industrial wastewater treatment systems for Vung Tau industries, September 2009.
- 26) 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.
- 27) Trainer - Training workshop for operators of Central wastewater treatment plant - Trang Bang Industrial Park, Tay Ninh Province (2011).
- 28) 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 GTSW chaired by University Technology of Sydney (**General Chair** of Organizing Committee GTSW 2019).
- Taiwan-Vietnam Workshop on “Groundwater and Soil Contamination and Remediation”, Palacce hotel, October 31st, 2019 (**Chairman** of Organizing Committee).
- 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-chair** 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-chair** 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-chair 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 (**Chair 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/PhD/postdoc students

Postdoc students:

- Dr. Vo Thi Dieu Hien (2020-2021), Postdocral student (HCMUT and NAFOSTED, Ministry of Science and Technology, Vietnam).

- Dr. Quach An Binh (2021-2022), Postdoctoral student (HCMUT and NAFOSTED, Ministry of Science and Technology, Vietnam).

PhD students:

- Phan Kiem Hao (2021-2024), PhD student, HCMUT, VNUHCM, Vietnam.
- Nguyen Hong Anh (2021-2024), PhD student, IER-VNUHCM, Vietnam
- Le Linh Thy (2017-2020), PhD student, Myongji University, Korea.
- Tran Thanh (2019-2022), PhD student, HCMUT, Vietnam.
- Tran Huu Tuan (2016-2020), PhD student (National Kaohsiung University of Science and Technology, Taiwan).
- Vo Thi Dieu Hien (2016-2019), PhD student (National Kaohsiung University of Science and Technology, Taiwan).

International students:

- Thierry Mounir (Oct, 2019-April, 2020), EPFL, Switzerland (*Master thesis joint supervision between A/Prof. BX Thanh & Dr. Florian Breider*).
- Laura Stocco (Sep-Dec, 2019), EPFL, Switzerland.
- Remy Berthier (May-July, 2019), The University of Limoges (ENSIL), France.
- Melanie Rydzewski (May-July, 2019), The University of Limoges (ENSIL), France.
- Lorena Serra (May-July, 2019), The University of Limoges (ENSIL), France.
- Marion Casnin (May-July, 2019), The University of Limoges (ENSIL), France.
- Lina Marie (May-June, 2019), Technische Universität Berlin, Germany.
- Marisa Boller (April-June, 2019), EPFL, Switzerland.
- 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 (ENSIL), France.
- Lisa BARRUCAN (May–August 2018), The University of Limoges (ENSIL), France.
- Pauline FLOBINUS (May–August 2018), The University of Limoges (ENSIL), 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), The University of Limoges (ENSIL), France.
- FONTAINE Tony (May-August 2017), The University of Limoges (ENSIL), France.
- DADOU Hugo (May-August 2017), The University of Limoges (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

- Award of Excellence in Scientific Publication of Vietnam National University – Ho Chi Minh of year 2019-2020, Decision No. 1699/QĐ-ĐHQG on December 28th, 2020.
- Award of Excellence in Scientific Publication of Vietnam National University – Ho Chi Minh of year 2018-2019, Decision No. 1667/QĐ-ĐHQG on December 26th, 2019.
- 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 + Accommodation 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.

Membership/Credentials

- Member of Central Council, International Forum on Industrial Bioprocesses (IFIBiop), January 2021-December 2022.
- **Member of Scientific Committees** of Applied Research, National Foundation of Science and Technology Development (NAFOSTED), Ministry of Science and Technology, Vietnam on term of 2020-2022 (**National Level**).
- Member of Evaluation Committees of ASEAN Citation Index (ACI) to Scopus Journal (2019 onward)
- **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; 2019-2021 (**National Level**).
- Member of Scientific Committee of several International conferences (IWA, IAEAC, CESE, SEEC, IBA, CLEAR, AMBRES).
- 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)