**PUBLICATION ACHIEVEMENTS OF LECTURER**

**2017-2020**

**Articles in qualified ISI journals**

**2020**

1. **[T.A.H., Nguyen](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21)**[,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [H.H., Ngo,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [W.S., Guo,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [T.H.H., Nguyen,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [S., Soda,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [N.D., Vu,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [T.K.A., Bui,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [T.D.H., Vo,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [X.T., Bui,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) [T.T., Nguyen,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749%22%20%5Cl%20%22%21) **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*](https://www.sciencedirect.com/science/journal/09608524)*,* 312, 123602. <https://doi.org/10.1016/j.biortech.2020.123602> **(ISI, Q1, IF: 7.539).**
2. [**T.A.H., Nguyen**, H.H., Ngo, W.S., Guo, T.T., Nguyen, N.D., Vu, S., Soda, T.H.H., Nguyen,](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub#!) [M.K., Nguyen,](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub" \l "!) [T.V.H., Tran,](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub" \l "!) [T.T., Dang,](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub" \l "!) [V.H., Nguyen,](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub" \l "!) [T.H.Cao,](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub" \l "!) **[2020](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub" \l "!)**[.](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub" \l "!) White hard clam (*Meretrix lyrata*) shells as novel filter media to augment the phosphorus removal from wastewater*.* [*Science of The Total Environment*](https://www.sciencedirect.com/science/journal/00489697), [741](https://www.sciencedirect.com/science/journal/00489697/741/supp/C), 140483, <https://doi.org/10.1016/j.scitotenv.2020.140483> (**ISI, Q1, IF: 6.551**).
3. D. Cheng, H.H., Ngo, W.S. Guo, S.W., Chang, D.D., Nguyen, J., Li, Q.V., Ly, **T.A.H., Nguyen**, V.S., Tran, **2020.** Applying a new pomelo peel derived biochar in microbial fell cell for enhancing sulfonamide antibiotics removal in swine wastewater. [*Bioresource Technology*](https://www.sciencedirect.com/science/journal/09608524)*,* In Press (Available online 23 July 2020, 123886) <https://doi.org/10.1016/j.biortech.2020.123886> (**ISI, Q1, IF: 7.539**).
4. T.T.U., Dinh, S., Soda, **T.A.H., Nguyen**, J., Nakajima, T.H., Cao, **2020**. Nutrient removal by duckweed from anaerobically treated swine wastewater in lab-scale stabilization ponds in Vietnam. [*Science of The Total Environment*](https://www.sciencedirect.com/science/journal/00489697), 722, 137854. <https://doi.org/10.1016/j.scitotenv.2020.140483> **(ISI, Q1, IF: 6.551).**
5. T.D., Dao, D.D., Pham**, T.A.H., Nguyen**, T.V.H., Tran, C.V., Hoang, T.T., Pham, **2020.** Bio-inspired broadband absorbers induced by copper nanostructures on natural leaves. *Scientific Reports,* 10, 3243. <https://doi.org/10.1038/s41598-020-59960-x> **(ISI, Q1, IF: 4.120).**
6. H.N.P., Vo, H.H., Ngo, W.S., Guo, T.M.H., Nguyen, J., Li, H., Liang, L., Deng, Zhuo, C., **T.A.H., Nguyen, 2020**. Poly‐and perfluoroalkyl substances in water and wastewater: A comprehensive review from sources to remediation. *J*[*ournal of Water Process Engineering*](https://www.sciencedirect.com/science/journal/22147144)*,* 36, 101393. <https://doi.org/10.1016/j.jwpe.2020.101393> **(ISI, Q1, IF: 3.465).**
7. T.T., Pham, D. D., Pham, **T. A. H., Nguyen,** M. T., Vu, L. H. T., Nghiem, T.V., Nguyen, D. Tanaka, D.C., Nguyen, **2020**. Synthesis and optical characterization of asymmetric multilayer metal-insulator nanocrescent in aqueous solutions. *Applied Physics Express*. <https://orcid.org/0000-0001-7507-2429> **(ISI, Q1, IF: 3.086).**
8. N. T. Nguyen, M. Liu, H. Katayama, T. Takemura, and I. Kasuga. Association of the colistin resistance gene mcr-1 with fecal pollution in water environments in Hanoi, Vietnam, Letters in Applied Microbiology, 2020; doi:10.1111/lam.13421. Impact Factor: 2.173
9. N. T. Nguyen, T. Takemura, A. H. Q. Pham, H. T. Tran, K. C. T. Vu, N. D. Tu, L. T. Huong, N. T. Cuong, I. Kasuga, F. Hasebe, and M. Suzuki. Whole-genome sequencing and comparative genomic analysis of Shewanella xiamenensis strains carrying blaOXA-48-like genes isolated from water environment in Vietnam, Journal of Global Antimicrobial Resistance, 2020, 21, 272-274; doi:10.1016/j.jgar.2020.04.033. Impact Factor: 2.706

**2019**

1. T.H.H., Nguyen, T.H., Nguyen, T.H.N., Tran, N.M., Nguyen, T.K.A., Bui, **T.A.H., Nguyen**, A.D., Nguyen, T.N., Mai, K.W., Kim, **2019.** Uptake of arsenic and heavy metals by native plants growing near Nui Phao multi-metal mine, northern Vietnam. *Applied Geochemistry*, 108, 104368, <https://doi.org/10.1016/j.apgeochem.2019.104368> **(ISI, Q2, IF: 2.903).**
2. T.H.H., Nguyen, Q.B., Nguyen, T.T., Duong, T.K.A., Bui**, T.A.H., Nguyen,** T.H., Cao, T.N., Mai, M.K., Nguyen, T.T., Pham, K.W., Kim, **2019.** Pilot-scale removal of arsenic and heavy metals from mining wastewater using adsorption combined with constructed wetland. *Minerals*, *9*(6), 379.  <https://doi.org/10.3390/min9060379> **(ISI, Q2, IF: 2.380).**
3. Ngo Van Liem, D.V.B., Dang Kinh Bac, Nguyen Hieu, Do Trung Hieu, Tran Van Phong, Tran Thi Viet Ha, Pham Thi Phuong Nga, Phan Trong Trinh, Integrating Landsat 7 and 8 data to improve basalt formation classification: A case study at Buon Ma Thuot region, Central Highland, Vietnam. Open Geosciences, 2019. 11(1): p. 901–917. (IF 0.788)
4. Thi Hanh Nguyen, T.H.P., Hong Tham Nguyen Thi, Thi Nham Nguyen, Minh-Viet Nguyen, Trinh Tran Dinh, Minh Phuong Nguyen, Trung Quang Do, Thao Phuong, Thu Trang Hoang, Thanh Tung Mai Hung, Viet Ha Tran Thi, Synthesis of iron-modified biochar derived from rice straw and its application to arsenic removal. Journal of Chemistry 2019. 2019: p. 5295610. (IF 1.790)
5. Viet Ha Tran Thi, T.H.C., Tri Nhut Pham, Tien Thanh Pham, Manh Cuong Le Synergistic adsorption and photocatalytic activity under visible irradiation using Ag-ZnO/GO nanoparticles derived at low temperature. Journal of Chemistry, 2019. 2019. (IF 1.790)

**2018**

1. Mishima, I., Hama, M., Tabata, Y., & Nakajima, J. (2018). Long-term investigation of phosphorus removal by iron electrocoagulation in small-scale wastewater treatment plants. Water Science and Technology, 78(6), 1304-1311.
2. Kato, R., Asami, T., Utagawa, E., Furumai, H., & Katayama, H. (2018). Pepper mild mottle virus as a process indicator at drinking water treatment plants employing coagulation-sedimentation, rapid sand filtration, ozonation, and biological activated carbon treatments in Japan. *Water research*, *132*, 61-70.
3. Haramoto, E., Kitajima, M., Hata, A., Torrey, J. R., Masago, Y., Sano, D., & Katayama, H. (2018). A review on recent progress in the detection methods and prevalence of human enteric viruses in water. *Water research*, *135*, 168-186.

**2017**

1. Mishima, I., Hama, M., Tabata, Y., & Nakajima, J. (2017). Improvement of phosphorus removal by calcium addition in the iron electrocoagulation process. Water Science and Technology, 76(4), 920-927.

**Articles in qualified Scopus journals**

**2020**

1. H. T. M. Vu and I. Kasuga. Prevalence of plasmid-mediated colistin resistance gene mcr-1 in domestic wastewater, IOP Conference Series: Earth and Environmental Science, 2020, 496, 1, 012015; doi: 10.1088/1755-1315/496/1/012015.
2. N. M. Pham and I. Kasuga. Profiling fecal pollution in rivers in Hanoi, Vietnam, using host-specific Bacteroidales and crAssphage markers, IOP Conference Series: Earth and Environmental Science, 2020, 496, 012014; doi:/10.1088/1755-1315/496/1/012014.

**2019**

1. **T.A.H., Nguyen,** H.H., Ngo, W.S., Guo, T.Q., Pham, T.H., Cao, T.H.H., Nguyen, **2019**. Applicability of zirconium loaded okara in the removal and recovery of phosphorus from municipal wastewater. IOP Conf. Series: Earth and Environmental Science 266, 012004, IOP Publishing doi:10.1088/1755-1315/266/1/012004 **(SCOPUS).**
2. T.N., Nguyen, J., Nakajima, M., Takaoka, **T.A.H., Nguyen**, **2019.** Heavy metal speciation in landfill leachate and its association with organic matter. IOP Conf. Series: Earth and Environmental Science 266, 012006. IOP Publishing doi:10.1088/1755-1315/266/1/012006 **(SCOPUS).**
3. T.H.H., Nguyen, D.L., Nguyen, **T.A.H., Nguyen,** **2019**. Sustainability of traditional vermicelli production in Minh Hong village, Ba Vi district, Hanoi, Vietnam, 2019. IOP Conf. Series: Earth and Environmental Science 266, 012015. IOP Publishing doi:10.1088/1755-1315/266/1/012015 **(SCOPUS).**
4. T.H., Tran, T.H., Vu, T.H.H., Nguyen**, T.A.H., Nguyen, 2019**. Water quality in Thanh Luong rice vermicelli and fresh noodle craft village, Thanh Oai district, Hanoi, Vietnam, 2019. IOP Conf. Series: Earth and Environmental Science 266, 012009. IOP Publishing doi:10.1088/1755-1315/266/1/012009 **(SCOPUS).**
5. N. T, Nguyen, M. Liu, I. Kasuga, and H. Katayama. Occurrence of antibiotic resistance genes as emerging contaminants in watersheds of Tama River and Lake Kasumigaura in Japan, IOP Conference Series: Earth and Environmental Science, 2019, 266, 012003; doi:10.1088/1755-1315/266/1/012003.

**2018**

1. W., Chaiyapa, N.K., Nguyen, A., Ahmed, T.H.Q., Vu, M., Bueno, Z., Wang, T.K., Nguyen, T.N., Nguyen, T.T., Duong, T.T.U., Dinh, A., Sjögren, T.K.L., Phung, D.T., Nguyen, **T.A.H., Nguyen,** I., Ikeda, M., Esteban, **2018.** Public perception on biofuel usage in Vietnam. Biofuels, DOI: [10.1080/17597269.2018.1442667](https://doi.org/10.1080/17597269.2018.1442667) **(SCOPUS, Q3, IF: 2.17).**
2. Canh, V. D., Kasuga, I., Furumai, H., & Katayama, H. (2018). Impact of various humic acids on EMA-RT-qPCR to selectively detect intact viruses in drinking water. *Journal of Water and Environment Technology*, *16*(2), 83-93.
3. Katam, K., Maetani, K., Shimizu, T., Nakajima, J., & Bhattacharyya, D. (2018). Study of aerobic biodegradation of surfactants and fluorescent whitening agents in detergents of a few selected Asian countries (India, Indonesia, Japan, and Thailand). *Journal of Water and Environment Technology*, *16*(1), 18-29.

**Article(s) in Vietnamese scientific journals**

1. T.H., Cao, **T.A.H., Nguyen,** T.V.H., Tran, Q.T., Tran, T.A., Cao, **2019.** Đô thị bền vững và một số vấn đề môi trường. Tạp chí Kiến trúc, 7, 48-51.
2. T.H., Cao, N.D., Vu, **T.A.H., Nguyen**, T.Q., Nguyen, T.A., Cao, M.H., Tran, K., Fukushi, H., Katayama, **2019.** Hiện trạng công nghệ xử lý nước thải theo hướng phát triển bền vững. Tạp chí Khoa học và Công nghệ Việt Nam, Tập 61(1), trang 50-57.

**Article(s) in other international journals**

**2020**

1. A.Okabayashi, T.Yazawa, S.Hashimoto and K.Sato, 2020. Evaluation of Water Stress and Drought Risk for Integrated Water Resources Management in the Yom River Basin, Thailand. J. of Environmental Instrumentation Control and Automation, Japan. pp.121-129, Vol.25, No.2/3
2. K.Wada, M.Nakamura, K.Sato, H.Tsuno and S.Fukuji, 2020. GIS analysis of eighteen-year trend in land use, runoff, and nonpoint load 5 characteristics in the Lake Biwa–Yodo River basin. J. of Japan Society on Water Environment. pp.141-152, Vol.43, No.5

**2019**

1. T.Yazawa, S.Kim, K.Sato, Y.Shimizu, 2019. Future Changes in Watershed-scale Rainfall Characteristics: Application of AGCM20 to the Johor River Watershed, Malaysia. J. of Environmental Instrumentation Control and Automation, Japan (J.EICA). pp.44-51, Vol.23, No.4.
2. T.Yazawa, S.Kim, K.Sato, Y.Shimizu, 2019. Estimation of Design Flood Criteria toward Integrated Watershed Management in the Johor River Watershed, Malaysia. J. of Environmental Instrumentation Control and Automation, Japan (J.EICA). pp.22-31, Vol.24, No.2/3
3. H.Mori, K.Sato, T.Yazawa, M.Kawagushi and T.Higuchi, 2019. Evaluation of Water Stress and Drought Risk for Integrated Water Resources Management in the Yom River Basin, Thailand. J. of Environmental Instrumentation Control and Automation, Japan (J.EICA). pp.78-83, Vol.24, No.2/3

**International/National conference**

**2020**

1. **T.A.H., Nguyen,** T.V., Le, S. Keisuke, S. Hashimoto, **2020.** Potential of mixture of coal slag and calcined ferralsols as wetland substrate to enhance phosphorus removal from wastewater. Water Environment Technology Conference 2020 (7-8 November, Virtual) [Poster].
2. D. B. Nguyen, H. T. M. Vu, and I. Kasuga (2020) Surveillance of ESBL-producing Escherichia coli in different water environments in Northern Vietnam, IFGTM 2020, (28 November, Hanoi) [Poster]
3. H. T. M. Vu and I. Kasuga (2020) Transmission of colistin resistance gene from water to aquatic vegetables due to untreated wastewater reuse for irrigation in Hanoi, Vietnam, Water Environment Technology Conference 2020, p.55. (7-8 November, Online) [Poster]
4. N. M. Pham and I. Kasuga (2020) Profiling fecal pollution in rivers in Hanoi, Vietnam, by host-specific Bacteroidales and crAssphage markers, 5th International Symposium on Sustainable Future in Asia/5th NIES International Forum, p.97. (21-22 January, Yangon, Myanmar) [Poster]
5. H. T. M. Vu, I. Kasuga, and H. Katayama (2020) Prevalence of plasmid-mediated colistin resistance gene mcr-1 in domestic wastewater, 5th International Symposium on Sustainable Future in Asia/5th NIES International Forum, p.98. (21-22 January, Yangon, Myanmar) [Poster]
6. H. Oladele, H. T. V. Tran, and I. Kasuga (2020) Photocatalytic activity of nano TiO2 powder for dye and antibiotic degradation, 5th International Symposium on Sustainable Future in Asia/5th NIES International Forum, p.99. (21-22 January, Yangon, Myanmar) [Poster]
7. C.T.K.Pham, K.Sato, S.Soda, 2020. Enhanced Nutrient Removal from Anaerobically Digested Swine Wastewater Using Lab-scale Hybrid Constructed Wetlands with Foamed Waste Glass and External Carbon Source, The Water and Environment Technology Conference 2020 (WET2020), 7-8th, Nov., 2020, Online
8. A.Okabayashi, T.Yazawa, S.Hashimoto, K.Sato, 2020. Applicability of HSPF to Drought Risk Assessment in the Yom River Basin, Thailand. The Water and Environment Technology Conference 2020 (WET2020), 7-8th, Nov., 2020, Online
9. Y.Yoneta, T.Yazawa, K.Sato, S.Hashimoto, 2020. Water Stress Projections for Sustainable Water Resources Management under Climate Change in Malaysia’s National Capital Region. The Water and Environment Technology Conference 2020 (WET2020), 7-8th, Nov., 2020, Online

**2019**

1. **T.A.H., Nguyen**, N.D., Vu, T.T., Nguyen, T.T., Vu, H.T., Luong, J., Nakajima, T.H.H., Nguyen, H.C., Tran, K. Sato, **2019.** Screening filter materials for enhancing phosphorus removal from wastewater in constructed wetlands. 4th International Symposium on Sustainable Future in Asia/ 4th NIES International Forum, (23-24 January, Hanoi, Vietnam) [Poster].
2. **T.A.H., Nguyen,** H.H., Ngo, T.H., Cao, T.H.H., Nguyen, **2019**. Applicability of zirconium loaded okara in the removal and recovery of phosphorus from municipal wastewater. 4th International Symposium on Sustainable Future in Asia/4th NIES International Forum, (23-24 January, Hanoi, Vietnam) [Poster].
3. T.H. Cao, **T.A.H., Nguyen**, N.D., Vu, T.Q., Nguyen, T.H., Dang, T.V.H., Tran, T.T., Vo, T.A., Cao, M.H., Tran, H., Katayma, **2019.** Changes in wastewater treatment technology toward sustainable development. 4th International Symposium on Sustainable Future in Asia/4th NIES International Forum, (23-24 January, Hanoi, Vietnam) [Poster].
4. T.H., Cao, N.D., Vu, **T.A.H., Nguyen,** V.C., Le, L.Q., Nguyen, P.T., Nguyen, T.V.H., Tran, T.H., Dang, T.A., Cao, **2019**. Zero-discharge economy: A new approach for environmental protection and sustainable development in Vietnam and a case study in Nguyen Khoi farm, Phu Tho province, Vietnam. 4th International Symposium on Sustainable Future in Asia/4th NIES International Forum, (23-24 January, Hanoi, Vietnam) [Poster].
5. **T.A.H., Nguyen,** H.H., Ngo, T.T., Vu, K., Sato, T.H.H., Nguyen, N.D., Vu, T.H., Cao, M.K., Nguyen, **2019**. Perspectives of phytoremediation using *Ubon paspalum* for decontamination of phosphorus in anaerobically digested swine wastewater. The 2nd International conference on non-point source pollution control and aquatic ecosystem protection (NPAE-2019), (20-23 September, Wuhan, China) [Oral].
6. **T.A.H., Nguyen**, T.T., Nguyen, T.T., Vu, K. Sato, N.D., Vu, T.H.H., Nguyen, M.K., Nguyen, T.Q., Pham, **2019**. Enhancing phosphorus removal from biogas-pretreated swine wastewater by lab-scale horizontal flow constructed wetlands packed with *Meretrix lyrata* shell. The 2nd Conference on Green Technologies for Sustainable Water 2019 (GTSW 2019), (1-5 December, Ho Chi Minh City, Vietnam) [Oral].
7. **T.A.H., Nguyen,** T.T., Nguyen, K., Sato, S., Satoshi, N.D., Vu, T.H.H., Nguyen, M.K., Nguyen, T.V., Le, **2019.** Applicability of white hard clam *(Meretrix lyrata)* shell as filter media in constructed wetlands to enhance phosphorus removal from swine wastewater. The 2nd Conference on Green Technologies for Sustainable Water 2019 (GTSW 2019), (1-5 December, Ho Chi Minh City, Vietnam) [Oral].
8. S. T. Ho, H. T. V. Tran, and I. Kasuga (2019) Development of bio-activated carbon fiber for drinking water treatment, Green Technologies for Sustainable Water 2019. (1-5 December, Ho Chi Minh) [Poster]
9. I. Kasuga, N. T. Nguyen, M. Liu, H. Katayama (2019) Pollution of antimicrobial resistance genes in water environment in Hanoi, 22nd JSWE symposium，pp.42-43. (5-6 September, Sapporo, Japan) [Oral]
10. M. T. T. Ma, I. Kasuga, H. T. Cao, and H. Katayama (2019) Fate of pathogens in lab-scale duckweed pond treatment for post-biogas swine wastewater, Water Environment Technology Conference 2019, p. 104. (13-14 July, Osaka, Japan) [Poster]
11. N. T. Nguyen, M. Liu, H. Katayama, and I. Kasuga (2019) Prevalence of antibiotic resistance genes in different water environments in Hanoi, Vietnam, Water Environment Technology Conference 2019, p.7. (13-14 July, Osaka, Japan) [Poster]
12. N. T. Nguyen, M. Liu, I. Kasuga, and H. Katayama (2019) Occurrence of antibiotic resistance genes as emerging contaminants in watersheds of Tama River and Lake Kasumigaura in Japan, 4th International Forum on Sustainable Future in Asia, p.71 (23-24 January, Hanoi, Vietnam) [Poster]
13. Viet Nguyen Minh, Ha Tran Thi Viet, Dong Pham Thanh, 2019, Investigation of Arsenic Adsorption by Using Iron Modified Biochar, Vietnam-Japan Science and Technology Symposium 2019
14. Viet Ha-Tran Thi, Tri Nhut Pham, Tien Thanh Pham, Manh Cuong Le, 2019, Synthesis of Ag-ZnO/GO Composite for Enhanced Degradation of Methylene Blue Under Visible Light, International Conference on Advanced Nanomaterials for Green Growth
15. Tran Thi Viet Ha, Byeong-Kyu Lee, 2019, Development of Stable Superhydrophobic Fabric with ZnO Coating for Selective Separation of Oil/Organic Solvent and Water, 4th NIES International Forum
16. Tran Thi Viet Ha, Byeong-Kyu Lee, 2019, Development of Stable Superhydrophobic Fabric with ZnO Coating for Selective Separation of Oil/Organic Solvent and Water, 4th NIES International Forum
17. Nguyen Ha Trang, Tran Thi Viet Ha, Nguyen Minh Viet, 2019, Synthesis, characterization, and photocatalytic activity of composite g-C3N4 with GaN-ZnO, Green Technologies for Sustainable Water 2019 Conference
18. Linh Dieu Tran, Jun Nakajima, Toshiyuki Shimizu, Naoyuki Kamiko, 2019. Consideration of Existing Rainwater Harvesting System and Its Enhancement Using Membrane Filtration. Water Environment Technology Conference 2019 (13-14 July, Osaka, Japan).
19. Y. Yoneta, K. Kobayashi, K. Sato, S. Hashimoto, 2019, Sustainability evaluation of water resources based on the future prediction of water supply and demand balance focused on climate change and regional distribution. IWA-ASPIRE 2019 Conference, 31st, Oct., 2019, Hong Kong
20. Y. Nomura, K. Sato, S. Hashimoto, 2019. Storm surge land flooding mitigation by green infrastructure in South Pacific island nations. IWA-ASPIRE 2019 Conference, 31st, Oct., 2019, Hong Kong
21. H. Mori, K. Sato, T. Higuchi, M. Kawaguchi, A. Osanai. Evaluating Oxygen Demand and Phosphorus Elution Characteristics in brackish lake sediment of Aso-kai Lagoon, Japan. IWA-ASPIRE 2019 Conference, 31st, Oct., 2019, Hong Kong
22. S. Koiso, K. Sato, S. Hashimoto. Quantitative evaluation of water supply and demand balance based on predicted future climate change and social trends. IWA-ASPIRE 2019 Conference, 31st, Oct., 2019, Hong Kong
23. H. Mori, K. Sato, T. Yazawa, M. Kawaguchi, T. Higuchi. Effects of Seawater Supply on Oxygen- depleted Bottom Sediment in Aso- kai Lagoon, Kyoto. J. of Environmental Instrumentation Control and Automation (31th EICA Annual Conference). 28th, Nov., 2019, Yamaguchi, Japan
24. K. Sato, H. Kato, N.T. Thuong, V.T. Thom, N.T.A. Hang. Design of constructed wetland according to the type of waste water - Introduction of two case studies. The Annual Workshop 2019 of Constructed Wetlands in Japan. 7th, Sep., 2019, Hokkaido, Japan
25. H. Mori, K. Sato, T. Higuchi, T. Yazawa. Effect of Seawater Exchange Experiments on the Improvement of Brackish Water Environment. 22th Annual Symposium of Japan Society on Water Environment. 5th, Sep., 2019, Hokkaido, Japan
26. S. Koiso, K. Sato, T. Yazawa, S. Hashimoto. Quantitative Assessment of Water Supply and Demand Balance in the Mekong River Basin Considering Climate Change and Social Trends. 57th Environmental Engineering Research Forum 2019, Japan. 3rd Dec., 2019, Okayama, Japan.
27. Y. Nomura, K. Sato, T. Yazawa, S. Hashimoto. Risk assessment of storm surge inundation under the climate change of typhoon: Focusing on the effects of mangroves on reducing inundation in South Pacific island countries. 57th Environmental Engineering Research Forum 2019, Japan. 3rd Dec., 2019, Okayama, Japan.
28. R. Muraki, M. Fukushima, K. Imai, K. Sato. Influence on fermentation efficiency by organic sediment addition into the methane fermentation tank. The 53rd Annual Conference of Japan Society on Water Environment (JSWE). 7-9th, Mar., 2019, Yamanashi, Japan
29. H. Mori, M. Kawagichi, K. Sato. Nutrients quantity accumulated in sediments and its elution characteristics in Aso-kai Lagoon （brackish lake）. Long-term prediction of radio cesium behavior in Natsui river basin,Fukushima. The 53rd Annual Conference of Japan Society on Water Environment (JSWE). 7-9th, Mar., 2019, Yamanashi, Japan
30. N. Nishimura, K. Sato. Long-term prediction of radio cesium behavior in Natsui river basin,Fukushima. The 53rd Annual Conference of Japan Society on Water Environment (JSWE). 7-9th, Mar., 2019, Yamanashi, Japan
31. S. Koiso, K. Kobayashi, K. Sato. Quantitative evaluation of water supply and demand balance based on future prediction of climate change and social trends. The 53rd Annual Conference of Japan Society on Water Environment (JSWE). 7-9th, Mar., 2019, Yamanashi, Japan
32. H. Kato, S. Sakai, Y. Kubota, K. Sato. Quantitative Evaluation of Greywater Treatment Performance by Two-Stage Constructed Wetland: Toward Creating Guidelines for Design and Operation. The 53rd Annual Conference of Japan Society on Water Environment (JSWE). 7-9th, Mar., 2019, Yamanashi, Japan

**2017**

1. **T.A.H., Nguyen,** H.H., Ngo, W., Guo, J., Nakajima, T.H., Cao, **2017.** Phosphorus recovery as struvite from raw municipal wastewater by adsorption coupled with crystallization. The 1st Conference on Green Technologies for Sustainable Water 2017 (GTSW 2017), (13-16 October, Hanoi, Vietnam) [Oral].

**Invited speech**

**2020**

1. **T.A.H., Nguyen,** T.V., Le, S. Keisuke, **2020.** Study on the use of the mixed hybrid substrates in horizontal subsurface flow constructed wetlands to intensify phosphorus elimination from anaerobically digested piggery wastewater. Workshop of the National level project (Code: KC.08.DA01/16-20) on Improvement of technology and treatment system of farm-scale anaerobically treated livestock wastewater to meet discharge regulations (6 July, Vietnam Academy of Science and Technology, Hanoi, Vietnam).
2. I. Kasuga (2020) Dissemination of antimicrobial resistance in water environment in Vietnam, IFGTM 2020 (10th International Forum for Green Technology and Management), (28 November, Hanoi, Vietnam)
3. I. Kasuga (2020) Tackling antimicrobial resistance in the context of SDGs in Asia, 5th International Symposium on Sustainable Future in Asia/5th NIES International Forum, (21-22 January, Yangon, Myanmar)

**2019**

1. **T. A.H., Nguyen, 2019.** Enhanced purification of biogas pre-treated swine wastewater contaminated by phosphorus using white hard clam (*Meretrix lyrata*) based constructed wetlands. The 1st Symposium of JSPS Core-to-Core Program: “Center of Excellence in Health Risk Assessment for Adaptation to Climate Change” (11-12 November, Manila, Philippines).
2. I. Kasuga (2019) Potential health risk of antimicrobial resistance in water environment in Hanoi, Vietnam, 1st Symposium of JSPS Core-to-Core Program: “Center of Excellence in Health Risk Assessment for Adaptation to Climate Change” (11-12 November, Manila, Philippines).
3. I. Kasuga (2019) Drinking water quality management after treatment -Risks of microbial regrowth in distribution system and premise plumbing-, The 9th International Forum Green Technology and Management (IFGTM) (27-28 September, Hanoi, Vietnam).
4. I. Kasuga (2019) Control of microbial regrowth in premise plumbing -Challenge of aging water supply systems-, Vietnam-Japan Science and Technology Towards Sustainable Development 2019, E-6-K-085. (4 May, Hanoi, Vietnam)
5. I. Kasuga (2019) Safely managed water services beyond SDG 6.1, 4th International Forum on Sustainable Future in Asia, p.46 (23-24 January, Hanoi, Vietnam)

**Awards**

**2020**

1. Y. Yoneta, T. Yazawa, K. Sato, S. Hashimoto. Water Stress Projections for Sustainable Water Resources Management under Climate Change in Malaysia’s National Capital Region. The Water and Environment Technology Conference 2020 (WET2020). "7-8th, Nov., 2020, Online**, Excellent Presentation Award**
2. H. T. M. Vu and I. Kasuga (2020) Transmission of colistin resistance gene from water to aquatic vegetables due to untreated wastewater reuse for irrigation in Hanoi, Vietnam, Water Environment Technology Conference 2020, p.55. (7-8 November, Online), WET **Excellent Presentation Award**, [Poster]
3. H. T. M. Vu, I. Kasuga, and H. Katayama (2020) Prevalence of plasmid-mediated colistin resistance gene mcr-1 in domestic wastewater, 5th International Symposium on Sustainable Future in Asia/5th NIES International Forum, p.98. (21-22 January, Yangon, Myanmar) [Poster], **Best Poster Award**
4. N. T. Nguyen, M. Liu, I. Kasuga, and H. Katayama (2019) Occurrence of antibiotic resistance genes as emerging contaminants in watersheds of Tama River and Lake Kasumigaura in Japan, 4th International Forum on Sustainable Future in Asia, p.71 (23-24 January, Hanoi, Vietnam) [Poster], **Best Poster Award**

**2019**

1. **T.A.H., Nguyen**, T.T., Nguyen, K., Sato, S., Satoshi, N.D., Vu, T.H.H., Nguyen, M.K., Nguyen, T.V., Le, **2019.** Applicability of white hard clam *(Meretrix lyrata)* shell as filter media in constructed wetlands to enhance phosphorus removal from swine wastewater. The 2nd Conference on Green Technologies for Sustainable Water 2019 (GTSW 2019), (1-5 December, Ho Chi Minh City, Vietnam) [**Best Oral Presentation Award**] (Co-author).
2. T.H., Cao, N.D., Vu, **T.A.H., Nguyen**, V.C., Le, L.Q., Nguyen, P.T., Nguyen, T.V.H., Tran, T.H., Dang, T.A., Cao, **2019**. Zero-discharge economy: A new approach for environmental protection and sustainable development in Vietnam and a case study in Nguyen Khoi farm, Phu Tho province, Vietnam. 4th International Symposium on Sustainable Future in Asia/4th NIES International Forum, (23-24 January, Hanoi, Vietnam) [**Best Poster Presentation Award**] (Co-author).
3. To Uyen Dinh Thi, Satoshi Soda, Hang Nguyen Thi An, Jun Nakajima, Ha Cao The, 2019. Nutrient Removal from Anaerobically Treated Swine Wastewater by Duckweed in Lab-Scale Stabilization Ponds in Vietnam. Water Environment Technology Conference 2019 (13-14 July, Osaka, Japan). [**Excellent Presentation Award**]

**PUBLICATION ACHIEVEMENTS OF STUDENT**

**2017-2020**

**BATCH 1:**

1. T.T.U., Dinh, S., Soda, **T.A.H., Nguyen**, J., Nakajima, T.H., Cao, **2020**. Nutrient removal by duckweed from anaerobically treated swine wastewater in lab-scale stabilization ponds in Vietnam. [*Science of The Total Environment*](https://www.sciencedirect.com/science/journal/00489697), 722, 137854. <https://doi.org/10.1016/j.scitotenv.2020.140483> **(ISI, Q1, IF: 6.551).**
2. T.H.H., Nguyen, Q.B., Nguyen, T.T., Duong, T.K.A., Bui**, T.A.H., Nguyen,** T.H., Cao, T.N., Mai, M.K., Nguyen, T.T., Pham, K.W., Kim, **2019.** Pilot-scale removal of arsenic and heavy metals from mining wastewater using adsorption combined with constructed wetland. *Minerals*, *9*(6), 379.  <https://doi.org/10.3390/min9060379> **(ISI, Q2, IF: 2.380).**
3. T.N., Nguyen, J., Nakajima, M., Takaoka, **T.A.H., Nguyen**, **2019.** Heavy metal speciation in landfill leachate and its association with organic matter. IOP Conf. Series: Earth and Environmental Science 266, 012006. IOP Publishing doi:10.1088/1755-1315/266/1/012006 **(SCOPUS).**
4. W., Chaiyapa, N.K., Nguyen, A., Ahmed, T.H.Q., Vu, M., Bueno, Z., Wang, T.K., Nguyen, T.N., Nguyen, T.T., Duong, T.T.U., Dinh, A., Sjögren, T.K.L., Phung, D.T., Nguyen, **T.A.H., Nguyen,** I., Ikeda, M., Esteban, **2018.** Public perception on biofuel usage in Vietnam. Biofuels, DOI: [10.1080/17597269.2018.1442667](https://doi.org/10.1080/17597269.2018.1442667) **(SCOPUS, Q3, IF: 2.17).**

**BATCH 2:**

1. [**T.A.H., Nguyen**, H.H., Ngo, W.S., Guo, T.H.H., Nguyen, S., Soda, N.D., Vu, T.K.A., Bui, T.D.H., Vo, X.T., Bui, T.T., Nguyen,](https://www.sciencedirect.com/science/article/abs/pii/S0960852420308749#!) **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*](https://www.sciencedirect.com/science/journal/09608524)*,* 312, 123602. <https://doi.org/10.1016/j.biortech.2020.123602> **(ISI, Q1, IF: 7.539).**
2. [**T.A.H., Nguyen**, H.H., Ngo, W.S., Guo, T.T., Nguyen, N.D., Vu, S., Soda, T.H.H., Nguyen, M.K., Nguyen, T.V.H., Tran, T.T., Dang, V.H., Nguyen, T.H.Cao, **2020**.](https://www.sciencedirect.com/science/article/pii/S0048969720340055?via%3Dihub#!) White hard clam (*Meretrix lyrata*) shells as novel filter media to augment the phosphorus removal from wastewater*.* [*Science of The Total Environment*](https://www.sciencedirect.com/science/journal/00489697), [741](https://www.sciencedirect.com/science/journal/00489697/741/supp/C), 140483, <https://doi.org/10.1016/j.scitotenv.2020.140483> (**ISI, Q1, IF: 6.551**).
3. N. T. Nguyen, M. Liu, H. Katayama, T. Takemura, and I. Kasuga. Association of the colistin resistance gene mcr-1 with fecal pollution in water environments in Hanoi, Vietnam, Letters in Applied Microbiology, 2020; doi:10.1111/lam.13421. Impact Factor: 2.173
4. N. T. Nguyen, T. Takemura, A. H. Q. Pham, H. T. Tran, K. C. T. Vu, N. D. Tu, L. T. Huong, N. T. Cuong, I. Kasuga, F. Hasebe, and M. Suzuki. Whole-genome sequencing and comparative genomic analysis of Shewanella xiamenensis strains carrying blaOXA-48-like genes isolated from water environment in Vietnam, Journal of Global Antimicrobial Resistance, 2020, 21, 272-274; doi:10.1016/j.jgar.2020.04.033. Impact Factor: 2.706
5. N. M. Pham and I. Kasuga. Profiling fecal pollution in rivers in Hanoi, Vietnam, using host-specific Bacteroidales and crAssphage markers, IOP Conference Series: Earth and Environmental Science, 2020, 496, 012014; doi:/10.1088/1755-1315/496/1/012014.
6. **T.A.H., Nguyen**, N.D., Vu, T.T., Nguyen, T.T., Vu, H.T., Luong, J., Nakajima, T.H.H., Nguyen, H.C., Tran, K. Sato, **2019.** Screening filter materials for enhancing phosphorus removal from wastewater in constructed wetlands. 4th International Symposium on Sustainable Future in Asia/ 4th NIES International Forum, (23-24 January, Hanoi, Vietnam) [Poster].
7. **T.A.H., Nguyen**, N.D., Vu, T.T., Nguyen, T.T., Vu, H.T., Luong, J., Nakajima, T.H.H., Nguyen, H.C., Tran, K. Sato, **2019.** Screening filter materials for enhancing phosphorus removal from wastewater in constructed wetlands. 4th International Symposium on Sustainable Future in Asia/ 4th NIES International Forum, (23-24 January, Hanoi, Vietnam) [Poster].
8. T.H., Cao, N.D., Vu, **T.A.H., Nguyen,** V.C., Le, L.Q., Nguyen, P.T., Nguyen, T.V.H., Tran, T.H., Dang, T.A., Cao, **2019**. Zero-discharge economy: A new approach for environmental protection and sustainable development in Vietnam and a case study in Nguyen Khoi farm, Phu Tho province, Vietnam. 4th International Symposium on Sustainable Future in Asia/4th NIES International Forum, (23-24 January, Hanoi, Vietnam) [Poster].
9. **T.A.H., Nguyen,** H.H., Ngo, T.T., Vu, K., Sato, T.H.H., Nguyen, N.D., Vu, T.H., Cao, M.K., Nguyen, **2019**. Perspectives of phytoremediation using *Ubon paspalum* for decontamination of phosphorus in anaerobically digested swine wastewater. The 2nd International conference on non-point source pollution control and aquatic ecosystem protection (NPAE-2019), (20-23 September, Wuhan, China) [Oral].
10. **T.A.H., Nguyen**, T.T., Nguyen, T.T., Vu, K. Sato, N.D., Vu, T.H.H., Nguyen, M.K., Nguyen, T.Q., Pham, **2019**. Enhancing phosphorus removal from biogas-pretreated swine wastewater by lab-scale horizontal flow constructed wetlands packed with *Meretrix lyrata* shell. The 2nd Conference on Green Technologies for Sustainable Water 2019 (GTSW 2019), (1-5 December, Ho Chi Minh City, Vietnam) [Oral].
11. **T.A.H., Nguyen,** T.T., Nguyen, K., Sato, S., Satoshi, N.D., Vu, T.H.H., Nguyen, M.K., Nguyen, T.V., Le, **2019.** Applicability of white hard clam *(Meretrix lyrata)* shell as filter media in constructed wetlands to enhance phosphorus removal from swine wastewater. The 2nd Conference on Green Technologies for Sustainable Water 2019 (GTSW 2019), (1-5 December, Ho Chi Minh City, Vietnam) [Oral].
12. I. Kasuga, N. T. Nguyen, M. Liu, H. Katayama (2019) Pollution of antimicrobial resistance genes in water environment in Hanoi, 22nd JSWE symposium，pp.42-43. (5-6 September, Sapporo, Japan) [Oral]
13. M. T. T. Ma, I. Kasuga, H. T. Cao, and H. Katayama (2019) Fate of pathogens in lab-scale duckweed pond treatment for post-biogas swine wastewater, Water Environment Technology Conference 2019, p. 104. (13-14 July, Osaka, Japan) [Poster]
14. N. T. Nguyen, M. Liu, H. Katayama, and I. Kasuga (2019) Prevalence of antibiotic resistance genes in different water environments in Hanoi, Vietnam, Water Environment Technology Conference 2019, p.7. (13-14 July, Osaka, Japan) [Poster]
15. N. T. Nguyen, M. Liu, I. Kasuga, and H. Katayama (2019) Occurrence of antibiotic resistance genes as emerging contaminants in watersheds of Tama River and Lake Kasumigaura in Japan, 4th International Forum on Sustainable Future in Asia, p.71 (23-24 January, Hanoi, Vietnam) [Poster]
16. Linh Dieu Tran, Jun Nakajima, Toshiyuki Shimizu, Naoyuki Kamiko, 2019. Consideration of Existing Rainwater Harvesting System and Its Enhancement Using Membrane Filtration. Water Environment Technology Conference 2019 (13-14 July, Osaka, Japan).
17. K. Sato, H. Kato, N.T. Thuong, V.T. Thom, N.T.A. Hang. Design of constructed wetland according to the type of waste water - Introduction of two case studies. The Annual Workshop 2019 of Constructed Wetlands in Japan. 7th, Sep., 2019, Hokkaido, Japan

**BATCH 3:**

1. H. T. M. Vu and I. Kasuga. Prevalence of plasmid-mediated colistin resistance gene mcr-1 in domestic wastewater, IOP Conference Series: Earth and Environmental Science, 2020, 496, 1, 012015; doi: 10.1088/1755-1315/496/1/012015. [Scopus]
2. **T.A.H., Nguyen,** T.V., Le, S. Keisuke, S. Hashimoto, **2020.** Potential of mixture of coal slag and calcined ferralsols as wetland substrate to enhance phosphorus removal from wastewater. Water Environment Technology Conference 2020 (7-8 November, Virtual) [Poster].
3. D. B. Nguyen, H. T. M. Vu, and I. Kasuga (2020) Surveillance of ESBL-producing Escherichia coli in different water environments in Northern Vietnam, IFGTM 2020, (28 November, Hanoi) [Poster]
4. H. T. M. Vu and I. Kasuga (2020) Transmission of colistin resistance gene from water to aquatic vegetables due to untreated wastewater reuse for irrigation in Hanoi, Vietnam, Water Environment Technology Conference 2020, p.55. (7-8 November, Online) [Poster]
5. H. T. M. Vu, I. Kasuga, and H. Katayama (2020) Prevalence of plasmid-mediated colistin resistance gene mcr-1 in domestic wastewater, 5th International Symposium on Sustainable Future in Asia/5th NIES International Forum, p.98. (21-22 January, Yangon, Myanmar) [Poster]
6. H. Oladele, H. T. V. Tran, and I. Kasuga (2020) Photocatalytic activity of nano TiO2 powder for dye and antibiotic degradation, 5th International Symposium on Sustainable Future in Asia/5th NIES International Forum, p.99. (21-22 January, Yangon, Myanmar) [Poster]
7. C.T.K.Pham, K.Sato, S.Soda, 2020. Enhanced Nutrient Removal from Anaerobically Digested Swine Wastewater Using Lab-scale Hybrid Constructed Wetlands with Foamed Waste Glass and External Carbon Source, The Water and Environment Technology Conference 2020 (WET2020), 7-8th, Nov., 2020, Online
8. S. T. Ho, H. T. V. Tran, and I. Kasuga (2019) Development of bio-activated carbon fiber for drinking water treatment, Green Technologies for Sustainable Water 2019. (1-5 December, Ho Chi Minh) [Poster]
9. Nguyen Ha Trang, Tran Thi Viet Ha, Nguyen Minh Viet, 2019, Synthesis, characterization, and photocatalytic activity of composite g-C3N4 with GaN-ZnO, Green Technologies for Sustainable Water 2019 Conference [Poster]
10. **T.A.H., Nguyen,** T.V., Le, S. Keisuke, **2020.** Study on the use of the mixed hybrid substrates in horizontal subsurface flow constructed wetlands to intensify phosphorus elimination from anaerobically digested piggery wastewater. Workshop of the National level project (Code: KC.08.DA01/16-20) on Improvement of technology and treatment system of farm-scale anaerobically treated livestock wastewater to meet discharge regulations (6 July, Vietnam Academy of Science and Technology, Hanoi, Vietnam).

**BATCH 4:**

1. D. B. Nguyen, H. T. M. Vu, and I. Kasuga (2020) Surveillance of ESBL-producing Escherichia coli in different water environments in Northern Vietnam, IFGTM 2020, (28 November, Hanoi) [Poster]