

CURRICULUM VITAE



PERSONAL DATA

Name: **NGUYEN VIET ANH**, Professor, PhD. (Male)

Date of birth: December 16th, 1968

Nationality: Vietnamese

Position: Director, Institute for Environmental Science and Engineering (IESE), Hanoi University of Civil Engineering (HUCE). Head of Water Supply and Sanitation Division, Department of Environmental Engineering (DEE), HUCE.

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KEY QUALIFICATIONS

Professor, PhD. Viet-Anh Nguyen is Director, Institute of Environmental Science and Engineering (IESE), Hanoi Civil Engineering University, Vietnam. He has about 23 years of experience in water supply and sanitation sector, spending number of efforts in research and development of efficient water supply, low-cost decentralized sanitation systems, sludge and fecal sludge management and resource recovery, appropriate for the developing countries. Participation of local users and private sector, development of water and sanitation industry, adaptation with climate change challenges are also among his main interests.

Mr. Nguyen has experiences in long-term and short-term water sector capacity building, engineering and managerial aspects of water supply and sewerage systems. He has been actively devoting his time for education and training for water supply and sanitation specialists in Vietnam. He was also co-supervising or hosting number of international under-graduate and post-graduate students from other countries including UK, USA, Germany, Spain, Laos, Japan, Mexico, Netherlands, etc.

PhD. Nguyen has been being involved in a number of consultancy works on sector and inter-sector policy development and appraisal; project design, construction, bid evaluation, monitoring and evaluation; O&M of water and wastewater systems; local capacity building; etc. in Vietnam. He has been working with a number of key sector organizations, including Vietnamese ministries: Construction - MOC, Planning and Investment - MPI, Health - MOH, Industry and Trade - MOIT, Agriculture and Rural development - MARD, Natural Resources and Environment - MONRE, Science and Technology – MOST, etc. He has also close connections and plays as a key Vietnamese resource person for International Water Association - IWA, Sustainable Sanitation Alliance – SuSanA, United Nations organizations such as UNEP, UNICEF, WHO, UNIDO, UNESCAP, UN HABITAT, and other organizations such as WB, ADB, BMGF, etc. PhD. Nguyen has received some prestige prizes for his achievements in scientific research activities.

Professor Nguyen has published about 30 papers in prestigious/high indexed international journals, 90 papers in national journals, 15 textbooks, monographs and reference materials. He has been awarded with 5 patents, and some medals/awards.

Recently Professor Nguyen has been nominated as a Head of Science and Technology Department, Vietnam Association of Water Supply and Sewerage (VWSA), and also Vice President, Vietnam Association of Civil Engineering Environment (VACEE). VWSA is a largest professional society in Vietnam dealing with water supply and sanitation, while VACEE is now focusing on promotion of

Green Building Concept in Vietnam. Recently, Professor Nguyen has been assigned to the post of Chairman of the Vietnam State Professorship Council in Civil Engineering and Architecture.

EDUCATION

- 1996 - 1998: National Academy of Administration.
Bachelor, Public Administrative Management.
- 1995 – 1998: Hanoi College of Foreign Trade. Bachelor. English Language.
- 1991 - 1995: Moscow University of Civil Engineering.
Ph.D. Wastewater Treatment Technology.
- 1986 - 1991: Moscow University of Civil Engineering.
Engineer, Water Supply and Sewerage.

PROFESSIONAL POSITION

- Director, Institute for Environmental Science and Engineering (IESE), Hanoi University of Civil Engineering (HUCE).
- Head of Water Supply and Sanitation Division, Department of Environmental Engineering (DEE), HUCE.
- Chairman of the Professorship Council in Civil Engineering and Architecture, Vietnam State Professorship Council.

PROFESSIONAL SOCIETY ACTIVITIES

- Vice President, Vietnam Association for Civil Engineering Environment (VACEE).
- Member of Executive Board, Head of Science & Technology Department, Vietnam Water Supply and Sewerage Association (VWSA).
- Individual member of International Water Association (IWA).
- Founder, Member of the Executive Board, Vietnam Green Building Council (VGCB).
- Registered ASEAN Engineer (ASEAN Engineers Register - AFEO).

FOREIGN LANGUAGE

	<i>Listening</i>	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
Vietnamese:	Mother tongue			
English:	Excellent	Good	Excellent	Good
Russian:	Excellent	Good	Excellent	Good

EMPLOYMENT EXPERIENCE

1996 – to present: Lecturer, Hanoi Civil Engineering University.

Countries of work (including short-term): Vietnam, Laos, Cambodia, Uzbekistan, Germany, Japan, Korea, USA, Switzerland, UK, China, Thailand, Philippines, etc.

Areas of interests:

- Low-cost and sustainable water supply and sanitation in developing countries;
- Water and wastewater treatment technologies;
- Sewage sludge treatment; Fecal sludge management; Resource recovery from biomass.

- Water quality control and monitoring, environmental sanitation and public health;
- Operation and maintenance (O&M) of waste and wastewater systems; Water safety plans (WSP).
- Environmental impact assessment (EIA), Strategic environmental assessment (SEA).
- Climate change adaptation, Green building and Smart city related issues.

Teaching above courses (in Vietnamese and English) at:

- under-graduate and post-graduate levels (Bc., MSc., PhD.) at universities and research institutes;
- short training for trainers (ToT), managers and staff from central and local governmental organizations, water supply and sewerage companies, water supply, sanitation and urban infrastructure development projects, for private sector, for international organizations in Vietnam, foreign delegates, and for the different local communities.

PhD research supervisions: 8 (including 5 graduated).

MSc. research supervisions: about 40 graduated.

Supervision for Engineer degree diploma works: about 150.

Peer reviewer for number of scientific papers for different international and national journals such as Water Science and Technology (IWA), Journal of Water sanitation and hygiene for development (IWA), Springer's Tropical Medicine and International Health (TMIH), International Journal of Water Resources and Environmental Engineering (IJWRE), Environmental Science and Bio-Technology (RESB), VWSA Journal of Water Supply and Sewerage, etc.

Scientific and Organizational Committee Chair/Member/Jury for different international and national workshops, conferences, awards, such as: IWA Conference "Sanitation Options for developing countries", Hanoi, Vietnam, November 2008; IWA Conference and Exhibition "Decentralized wastewater treatment solutions in developing countries, Surabaya, Indonesia, March 2010; Singapore International Water Week SIWW 2010; IWA Young Professionals' Prize 2010; IWA Water and Wastewater Conference, Kuala-Lumpur, 2011; Singapore International Water Week SIWW 2011; IWA ASPIRE Conference, Tokyo, 2011; 37th WEDC Conference, Hanoi, 2014; 3rd Fecal Sludge Management Conference (FSM3), Hanoi 2015; Vietwater Exhibition and Conference 2014-2019; 7th International Workshop on Decentralized Wastewater Treatment, Hanoi 2019; etc.

Country Representative for Kurita Water and Environment Foundation (KWEF) for Young Researchers (2015 to present).

Research activities (selected):

- **Water and Sanitation Appropriate technologies for developing countries to meet SDG6 targets (WASAT project).** Rain Research Centre (RRC), Seoul National University – IESE, HUCE. Vietnam Project Team Leader. 2018 – 2021.
- **Industrial wastewater pollution control for river basins in Vietnam.** Fund by Kurita Water and Environment Foundation. Vietnam Team leader (2017 – 2019).
- **Development of Curricula on Smart and Sustainable Cities in Vietnam.** Erasmus+ project funded by EU. Joint project among 5 European universities and 6 Vietnamese universities. NUCE Team leader (2016 - 2019).
- **Development of appropriate technologies for waste treatment in remote islands.** Fund by Ministry of Construction. Team leader. 2016 – 2019.
- **Sludge dewatering using new technology.** Joint pilot research project of IESE and ARK Co (Korea), KOICA fund. 2017.
- **Wastewater treatment for N, P removal using Bio-block technology.** Joint pilot research project of IESE and Daisung Green Tech., Ltd (Korea), KEITI fund. 2017.

- **Co-treatment of iron, manganese, ammonium in groundwater in Hanoi using Chemiles technology.** Joint pilot research project among Nagaoka Co. (Japan), Hanoi Clean Water Co. and IESE. 2014 – 2016.
- **Development and Testing of the new Ecological Toilet for the Vietnamese conditions.** 2009 – 2012 (phase 1), 2013 – 2014 (phase 2), 2016 – 2017 (phase 3). IESE - INAX (LIXIL) Corporation (Local study team leader).
- **Rainwater management for low-income communities (S.I.R project).** Rain Research Centre (RRC), Seoul National University – IESE, HUCE. Vietnam Project Team Leader. KOICA fund. 2015 – 2016.
- **Characterization and Pilot Studies to Assess Fecal Sludge Treatment and Resource Recovery Technologies (PURR project).** SANDEC/EAWAG (Switzerland) – IESE (Vietnam). (Local study team leader). 2013 – 2015.
- **Landscape Analysis and Business Model Assessment in Fecal Sludge Management: Extraction & Transportation Models in Vietnam.** The international research project conducted in 5 Asian and 5 African countries funded by the Bill and Melinda Gates Foundation. The research in Vietnam: 2011, Team leader.
- **Integrated Solutions for semi-centralized supply and disposal systems in urban areas – A case study in Hanoi, Vietnam (Semi-San).** 2009 – 2011 (Vietnam Project Manager). Hanoi University of Civil Engineering – Technical University of Darmstadt, under support of Ministry of Science and Technology (MOST), Vietnam and Ministry of Education and Research (BMBF), Germany. Vietnam Project Leader.
- **Co-treatment of organic waste and septic tank sludge for cities in Vietnam.** 2010. Hanoi University of Civil Engineering – University of Kitakyushu (Japan). Joint experimental study. Funded by EBARA and Kitakyushu city.
- **Promotion of pilot community-based environmental protection model in delta area in Vietnam: Demonstration project in Lai Xa village, Ha Tay province.** 2006 – 2007 (Research team leader). CEETIA, for the Ministry of Natural Resources and Environment (MONRE).

Consulting activities:

- Consultant. **Design of wastewater collection system for Boun Nuea district town, Phong Sa Ly province, Lao PDR** (2019). Task: Team leader.
- Consultant. **Design of Pond system for effluent quality improvement and wastewater risk control at Pacific Crystal Textile and Dying Company** (2017-2018). Task: Team leader.
- Consultant. **Design of Pond system for effluent quality improvement and wastewater risk control at Formosa Dong Nai Plastics and Fiber Company** (2018). Task: Team leader.
- Consultant. **Preparation of Option report for Pond and wetland system for effluent quality improvement and wastewater risk control at Nghi Son Petroleum Refinery Complex** (2017). Task: Team leader.
- Consultant. **Design of Pond and wetland system for effluent quality improvement and wastewater risk control at Formosa Ha Tinh Steel Company** (2016-2017). Task: Team leader.
- Consultant. **Preparation of Operation & Maintenance Manual on Centralized Wastewater Treatment Plants in Industrial Areas.** Ministry of Planning and Investment - WB (2014). Task: Team leader.
- Consultant. **Preparation of Construction and Operation Manual on Low-cost Latrines.** Ministry of Health - UNICEF (2014). Task: Team leader.

- Consultant. **Vietnam urban wastewater sector review**. World Bank (2012 - 2013). Task: National wastewater specialist.
- Consultant. Project preparation. **Vietnam Industrial Pollution Management Project (VIPMP)**. Ministry of Planning and Investment – World Bank (2011). (Leader of CS.1-4 component). Task: to review design documents of loan candidates – industrial zones for wastewater treatment plant construction, to recommend some most feasible IZs for investment, to prepare design packages for ready-to-invest IZs.

Other consulting activities

- **Design, Equipment supply, Installation & Construction, Commissioning and Technology Transfer of wastewater collection and treatment systems**, for industries, communities, handicraft villages, office buildings, factories, hospitals...: Effluent pond system for wastewater pollution control at Hai Duong Pacific Crystal Textile and Dying Company (2017 – 2018), Formosa Steel Company (Ha Tinh, 2016-2017); Packaged Wastewater Treatment System for Thuy Khue Apartment (Hanoi, 2016), Stylestone Co. (Hanoi, 2013), Tay Thien Religious and Tourism area (2013), Vicostone Co. (Hanoi, 2011), for Zorro Pharmacy Company (Hanoi, 2011), Tourist Port in Cat Ba Island (Hai Phong, 2011), Urban Planning Palace (Hanoi, 2010), VIPs apartment complex at National Congress Center (Hanoi, 2010), Mefrimex Eco-resort villa complex (Hanoi, 2011); Decentralized Low-cost Wastewater Treatment System for Vietnam Friendship Village in Xuan Phuong commune, Tu Liem district, Hanoi (2008), Lai Xa village, Kim Chung commune, Hoai Duc district, Hanoi (2006 – 2007), Ta Thanh Oai and Huu Hoa communes, Thanh Tri district, Hanoi (2005), Tan Hoa commune, Hoai Duc district, Hanoi (2002), Tam Da village, Tien Son district, Bac Ninh province (2002), Compact Wastewater Treatment System for International Hospital in Hai Phong city (2013), Commercial Complex, Cai Gia Resort, Cat Ba Island (2009), new Apartments CT1, CT2, Ngo Thi Nham living quarter, Ha Dong District, Hanoi (2009), VIDB Bank Tower, Hanoi (2009), low-income residential area in Vinh Yen town, Vinh Phuc province (2007), K74 hospital, Vinh Phuc province (2006), Cat Co resort, Cat Ba Island, Hai Phong city (2003), Do Son Beach tourist area, Hai Phong city (2002), Xuan Mai concrete factory residential quarter, Chuong My district, Hanoi (2007), etc.
- **Process optimization, System operation improvement and Technology Transfer of water supply, wastewater collection and treatment systems** for Merituc Wastelake hotel (Hanoi), Sun Red River Building, Vietcombank Building, KS Sunway (Hanoi), vv,....
- **Construction Management Consultant** for water supply project in Bac Ha Cultural market (Lao Cai), Lai Xa commune (Hanoi), Flamingo water supply and wastewater treatment systems (Vinh Phuc province), etc.
- **Evaluation of Feasibility Study and Technical Designs, Evaluation of Tenders** for the design consultancy, for the construction work and construction supervision, project management for number of water supply and sanitation projects.
- **Participation in the Environmental Monitoring campaigns for urban and industrial sites in the northern part of Vietnam:** Hanoi, Hai Phong, Lao Cai, Ha Long, Hue, Thanh Hoa and Vinh cities (CEETIA, under VEPA Environmental Monitoring program) (1996 – to presence).
- Preparation of **Strategic Environmental Assessment (SEA)** reports for 3 projects. Preparation of **Environmental Impact Assessment (EIA)** Guidelines, prepared EIA reports for over 30 projects.

PUBLICATIONS (SELECTED)

- Books, book chapters and selected peer reviewed reports:

- Nguyen Viet Anh (ed), Tran Ngoc Quang, Nguyen Thanh Trung, Nguyen Phuong Thao, Tran Thi Hien Hoa, Dinh Viet Cuong, Pham Thi Hieu, Nguyen Van Hung, Nguyen Thi

Hue. Mechanics – Electronics Design Solutions for Green buildings. Construction Publishing House, Hanoi, 2019.

- Nguyen Viet Anh (ed), Ung Thi Linh Chi, Vu Thi Minh Thanh, Nguyen Tra My (2019). Wastewater treatment and reuse. Construction Publishing House, Hanoi, 2019.
- Nguyen Viet Anh, Tran Hieu Nhue (Co-ed.), Tran Thi Hien Hoa, Nguyen Phuong Quy, Nguyen Tuan Linh. Operation and Maintenance of centralized wastewater treatment plants. Science and Technique Publishing. Hanoi, 2018.
- Nguyen Viet Anh, Bui Thi Thuy, Vu Thi Minh Thanh (2017). Treatment of Sewage Sludge. Construction publishing. Hanoi, 2017.
- Nguyen Viet Anh (2017). Septic tank. Construction publishing. Hanoi, 2017.
- Nguyen Viet Anh, Vu Hong Duong (co-ed.), Tran Van Duong, Nguyen Huu Hop (2016). Operation and Maintenance of facilities in water supply system. Construction publishing. ISBN 978-604-82-2004-4 (in Vietnamese).
- Nguyen Viet Anh, Duong Chi Nam (co-authors) and 19 others (2016). Selection, construction and use of low-cost household latrines (Manual for IEC communicators). Medicine Publishing. ISBN: 978-604-66-2080-8 (in Vietnamese).
- Nguyen Viet Anh, Duong Chi Nam (co-authors) and 19 others (2016). Selection, construction and use of low-cost household latrines (Manual for masons, enterprises and project officers). Medicine Publishing. ISBN: 978-604-66-2079-2 (in Vietnamese).
- Shaw R., Nguyen Viet Anh, Dang Thi Thanh Huyen (Ed.) (2014). Sustainable water and sanitation services for all in a fast changing world. ISBN: 978-604-82-1337-4. Construction Publishing House. Hanoi. Vietnam.
- Pham Ngoc Dang, Nguyen Viet Anh, Nguyen Van Muon, Pham Hai Ha (2014). Design solutions for green buildings in Vietnam. Construction Publishing House.
- Le Duy Hung, Alan Coulthart, Sudipto Sarkar, James Corning, Nguyen Viet Anh, Tran Viet Nga and Ross Kearton (2013). Vietnam Urban Wastewater Review. The World Bank.
- US EPA/600/R-12/618 (2012). Guidelines for Water Reuse. U.S. Environmental Protection Agency, Office of Wastewater Management, Office of Water. Washington, D.C. National Risk Management Research Laboratory, Office of Research and Development. Cincinnati, Ohio. U.S. Agency for International Development. Washington, D.C. CDM Smith Inc. (<http://nepis.epa.gov/Adobe/PDF/P100FS7K.pdf>) (Contributor).
- Nguyen, VA., Lan, HT., Dan PH., Hoa, LT., Nhung, BT., Hutton, G. Economic assessment of sanitation interventions in Vietnam. World Bank, Water and Sanitation Program, 2012. (www.wsp.org).
- Nguyen Viet Anh, Nguyen Hong Sam, Dinh Dang Hai, Nguyen Phuoc Dan, Nguyen Xuan Thanh (2011). Landscape Analysis and Business Model Assessment in Fecal Sludge Management: Extraction and Transportation Models in Vietnam. Final Report, December 2011. Bill and Melinda Gates Foundation (BMGF).
- Nguyen Huy Nga, Tran Dac Phu, Nguyen Viet Anh et al (2010). Manual on Construction, Utilization and Maintenance of Public Toilet. Ministry of Health. (Book, in Vietnamese).
- Dang Kim Chi, Tran Duc Vien, Nguyen Thanh Lam (co-editors), Nguyen Viet Anh and 11 other authors. Scientific and practical basics for environmental planning and management in Vietnam. Agriculture Publishing House. 2011. (Book, in Vietnamese).
- Nguyen Huy Nga, Tran Dac Phu, Nguyen Viet Anh et al (2010). Manual on Construction, Utilization and Maintenance of Household Toilet. Ministry of Health. (Book, in Vietnamese).

- Nguyen Viet Anh (2007). Septic tank and improved septic tank. Construction Publishing house (Book, in Vietnamese).
- Pham Ngoc Dang, Nguyen Viet Anh, Nguyen Khac Kinh, Tran Van Y, Tran Dong Phong (2006). Strategic Environment Assessment: Theory and Pilot Implementation in Vietnam. Construction Publishing House (Book, in Vietnamese).

- Scientific articles:

- Nguyen Viet Anh, Nguyen Viet Anh, Do Hong Anh, Le Trong Bang, Dinh Thuy Hang, Tran Thi Nga, Tran Hoai Son, Pham Duy Dong (2019). Some appropriate water supply and domestic waste treatment for coastal and islands areas. J. Water Supply and Sewerage, No. 6 (128), 2019, ISSN 1859-3623, pp. 35-41 (in Vietnamese).
- Yabuno Y, Nishikawa T, Yasui T, Nakanishi H, Nguyen Viet Anh (2019). Assessment of coagulation – UF and compare with traditional surface water treatment technology. J. Water Supply and Sewerage, No. 6 (128), 2019, ISSN 1859-3623, pp. 41-45 (in Vietnamese).
- Viet Anh Nguyen, Minh Phuong Nguyen, Karin Tonderski, Hai Do Thi and Anh Thi Kim Bui (2019). Design and performance of a coarse media, high hydraulic load polishing wetland for steel industry wastewater. © IWA Publishing 2019. Water Science & Technology, 80 (1): 59-66. Doi.org/10.2166/wst.2019.244.
- Dinh Viet Cuong, Nei-Ling Liu, Viet Anh Nguyen, Chia-Hung Hou (2019). Meso/micropore-controlled hierarchical porous carbon derived from activated biochar as a high-performance adsorbent for copper removal. Science of the Total Environment 692 (2019) 844–853. Elsevier Publisher. ISSN: 0048-9697.
- Anh Thi Kim Bui, Viet-Anh Nguyen, Minh Phuong Nguyen (2018). Selection of suitable plant species for wastewater treatment constructed wetland at the Formosa Ha Tinh steel company. Vietnam Journal of Science & Technology, Vietnam Academy of Science and Technology (ISSN 2525-2518). Vol. 56 (2C) (2018), pp 157-163. <http://dx.doi.org/10.15625/2525-2518/56/2C/13043>.
- Vu Thi Hoai An, Vu Thi Minh Thanh, Nguyen Viet Anh (2018). Bio-methane potential test for anaerobic co-digestion of faecal sludge and sewage sludge. Vietnam Journal of Science & Technology, Vietnam Academy of Science and Technology (ISSN 2525-2518). Vol. 55 (4C) (2017), pp 27-32.
- Moritz Gold , Hidenori Harada , Jean-David Therrien, Takahiro Nishida, Michael Cunningham, Swaib Semiyaga, Shigeo Fujii, Caetano Dorea, Viet-Anh Nguyen & Linda Strande (2017). Cross-country analysis of faecal sludge dewatering, Environmental Technology, Taylor & Francis. DOI: 10.1080/09593330.2017.1374472. ISSN: 0959-3330 (Print) 1479-487X (Online).
- Nguyen Viet Anh (2016). Trend of water treatment technologies in 21 Century and selection of appropriate technologies for Vietnam. J. of Water Supply and Sewerage. ISSN 1859 – 3623. No.6 (110), 2016. 42-48 pp (in Vietnamese).
- Nguyen Viet Anh, Dao Minh Nguyet, Vu Hoai An, Magalie Bassan, Linda Strande (2016). Faecal sludge management – from pollution control and resource recovery point of view. J. of Water Supply and Sewerage. ISSN 1859 – 3623. No.6 (110), 2016. 49-53 pp (in Vietnamese).
- Do Hong Anh, Nguyen Viet Anh (2016). Results of assessment and improvement of decomposition process in single pit latrine. J. of Water Supply and Sewerage. ISSN 1859 – 3623. No.6 (110), 2016. 68-73 pp (in Vietnamese).
- Tran Hoai Son, Dao Anh Dung, Dinh Viet Cuong, Yonghwan Kim, Nguyen Viet Anh (2016). Status of water usage and public awareness at Red river delta rural area. J. of Water Supply and Sewerage. ISSN 1859 – 3623. No.6 (110), 2016. 78-82 pp (in Vietnamese).
- Dinh Viet Cuong, Nguyen Viet Anh, Dao Anh Dung, Tran Hoai Son, Nguyen Viet Anh (2016). Green roof – a sustainable solution of rainwater management and contribution to urban flood mitigation. J. of Water Supply and Sewerage. ISSN 1859 – 3623. No.6 (110), 2016. 88-91 (in Vietnamese).

- Thi Thuy Bui, Viet Anh Nguyen (2016). Anaerobic digestion of sludge in wastewater treatment plant for energy recovery – a case study of Hanoi urban district. *Journal of Science & Technology, Vietnam Academy of Science and Technology* (ISSN 0866-708X). Vol. 54 (2A) (2016), pp 21-26.
- Nguyen Viet Anh, Vu Thi Hoai An (2016). Characteristics of septic tank sludge and influencing factors. *Journal of Science & Technology, Vietnam Academy of Science and Technology* (ISSN 0866-708X). Vol. 54 (2A) (2016), pp 141-148.
- Thi Thuy Bui, Viet Anh Nguyen (2016). Removals of chain-like and pin-like algae by positively charged bubble flotation. *Journal of Science & Technology, Vietnam Academy of Science and Technology* (ISSN 0866-708X). Vol. 54 (2A) (2016), pp 128-133.
- Belen Torondel, Jeroen H.J. Ensink, Ozan Gundogdu, Umer Zeeshan Ijaz, Julian Parkhill, Faraji Abdelahi, Viet-Anh Nguyen, Steven Sudgen, Walter Gibson, Alan W. Walker and Christopher Quince (2016). Assessment of the influence of intrinsic environmental and geographical factors on the bacterial ecology of pit latrines. *Microbial Biotechnology*. John Wiley & Sons Ltd and Society for Applied Microbiology. Online ISSN: 1751-7915. DOI: 10.1111/1751-7915.12318. Volume 9, Issue 2. March 2016. Pp. 209-223.
- Pham Thi Thuy, Hoang Minh Trang, Nguyen Viet Anh (2015). Evaluation of pesticides removal from drinking water using activated carbon made from agro-waste. *Scientific Journal of Vietnam National University, Hanoi: Natural Sciences and Technology* (ISSN 0866-8612). Volume 31, No. 2S (2015). Pp 288 – 294 (in Vietnamese).
- Thu Thuy Bui, Viet-Anh Nguyen, Trong Bang Le, Van Huong Trinh, Anh Dzung Dao (2015). Hydrological performance evaluation of surface run-off in University campus for flood mitigation. *Journal of Science & Technology, Vietnam Academy of Science and Technology* (ISSN 0866-708X). Vol. 53 (3A) (2015), pp 145-150.
- Do Hong Anh, Nguyen Viet-Anh, Le Trong Bang (2015). Comparison of costs of latrines using local construction materials in Vietnam. *Journal of Science & Technology, Vietnam Academy of Science and Technology* (ISSN 0866-708X). Vol. 53 (3A) (2015), pp 181-186.
- Bassan M., Dao N., Nguyen V.A., Holliger C., Strande L. (2014). Technologies for sanitation: how to determine appropriate sludge treatment strategies in Vietnam. In the book: *Sustainable water and sanitation services for all in a fast changing world*. Shaw R., Nguyen Viet Anh, Dang Thi Thanh Huyen (Ed.). ISBN: 978-604-82-1337-4. Construction Publishing House. Hanoi. Vietnam. Pp 87-92.
- Do Hong Anh, Nguyen Viet Anh, Le Trong Bang & Pham Doan Thanh Binh (2014). How cheap can hygienic latrines be? In the book: *Sustainable water and sanitation services for all in a fast changing world*. Shaw R., Nguyen Viet Anh, Dang Thi Thanh Huyen (Ed.). ISBN: 978-604-82-1337-4. Construction Publishing House. Hanoi. Vietnam. Pp 191-197.
- Duong Thu Hang, Vu Thi Minh Thanh, Nguyen Viet Anh (2014). Co-treatment of organic fractions of urban waste for energy recovery - a case study from Hanoi city, Vietnam. In the book: *Sustainable water and sanitation services for all in a fast changing world*. Shaw R., Nguyen Viet Anh, Dang Thi Thanh Huyen (Ed.). ISBN: 978-604-82-1337-4. Construction Publishing House. Hanoi. Vietnam. Pp 209-215.
- Pham T. T, Hoang M. T, Van der Bruggen B., Nguyen V. A (2014). Novel application of local GAC adsorption to remove organic matters and pesticides in rural drinking water treatment. In the book: *Sustainable water and sanitation services for all in a fast changing world*. Shaw R., Nguyen Viet Anh, Dang Thi Thanh Huyen (Ed.). ISBN: 978-604-82-1337-4. Construction Publishing House. Hanoi. Vietnam. Pp 685-690.
- Schoebitz L., Bassan M., Ferré A., Vu T. H. A, Nguyen V. A., Strande L (2014). FAQ: Faecal Sludge Quantification and Characterization – field trial of methodology in Hanoi, Vietnam. In the book: *Sustainable water and sanitation services for all in a fast changing world*. Shaw R.,

Nguyen Viet Anh, Dang Thi Thanh Huyen (Ed.). ISBN: 978-604-82-1337-4. Construction Publishing House. Hanoi. Vietnam. Pp 787-792.

- Pham Nguyet Anh, Harada H., Fuji S., Nguyen Viet Anh, Huynh Trung Hai, Tanaka S. (2014). Accumulation and characteristics of sludge in septic tank of Hanoi. Journal of Science and Technology, Vietnam Academy of Science and Technology (ISSN 0866-708X). Vol. 52, No. 3A (2014). pp 218-223.
- Bassan M., Nguyen V.A, Holliger Ch, Strande L. (2014). Optimization of the Sampling and Laboratory Methods for Faecal Sludge. SANDEC News No. 15, 09 / 14, Pp. 2-3. Department of Water and Sanitation in Developing Countries (Sandec), Swiss Federal Institute of Aquatic Science and Technology (Eawag). ISSN 1420-5572.
- Viet Anh NGUYEN, Jan-Olof DRANGERT, Manh Khai NGUYEN, Thi Ha NGUYEN, Hans Bertil WITTGREN and Celeste ZIMMERMANN (2013). Hanoi towards 2030 - Substance flow analysis supporting the planning process. In the Proceedings of the International Symposium: New Technologies for Urban Safety of Mega Cities in Asia. National University of Civil Engineering, Vietnam and International Center for Urban Safety Engineering (ICUS), The University of Tokyo, Japan. USMCA2013. Hanoi, Oct 9-11, 2013. ISBN 4-903661-65-2.
- Guy Hutton, U-Primo Rodriguez, Asep Winara, Nguyen Viet Anh, Kov Phyrum, Liang Chuan, Isabel Blackett and Almud Weitz (2013). Economic efficiency of sanitation interventions in Southeast Asia. Journal of Water, Sanitation and Hygiene for Development. Volume 4 Number 1. Pp 23-36. ISSN Print: 2043-9083, © IWA Publishing, 2013. DOI:10.2166/washdev.2013.158.
- Nguyen Viet Anh and Nguyen Hong Sam (2013). Business Model Assessment in Faecal Sludge Management in selected Vietnamese cities. In the proceedings of the 36th WEDC International Conference, Nakuru, Kenya, July 2013. Organized by Loughborough University, UK. Available at: <https://wedc-knowledge.lboro.ac.uk>.
- Nguyen Viet Anh, Nguyen Diem Hang, Guy Hutton, Almud Weitz (2013). The economic returns of sanitation interventions in Vietnam. Journal of Science and Technology, Vietnam Academy of Science and Technology (ISSN 0866-708X). Vol. 51, No. 3B (2013). pp 90-96.
- Nguyen Viet Anh, Vu Hong Duong, Tran Duong (2013). Results of study on upgrading of mono media filter to dual media filter. Journal of Science and Technology, Vietnam Academy of Science and Technology (ISSN 0866-708X). Vol. 51, No. 3B (2013). pp 231-239 (in Vietnamese).
- Nguyen Viet Anh, Nguyen Manh Hung, Vu Thi Minh Thanh (2013). Results of study on new water treatment technology – dissolved air flotation. Journal of Construction Science and Technology, No. 15, 3/2013 (ISSN 1859 – 2996). 49 – 57 pp (in Vietnamese).
- Thi Thuy Pham, Viet Anh Nguyen, Bart Van der Bruggen (2013). Pilot scale evaluation of GAC adsorption using low cost-high performance materials for removal of pesticides and organic matter in drinking water production. ASCE's Journal of Environmental Engineering, 139(7), 958–965.
- Pham Thi Thuy, Steven Van Geluwe, Viet-Anh Nguyen & Bart Van der Bruggen (2012). Current pesticide practices and environmental issues in Vietnam: management challenges for sustainable use of pesticides for tropical crops in (South-East) Asia to avoid environmental Pollution. Journal of Material Cycles and Waste Management. ISSN 1438-4957. Volume 14, Number 4, pp. 379 – 387. DOI 10.1007/s10163-012-0081-x.
- Nguyen Viet Anh, Duong Thu Hang, Thai Manh Hung, Nguyen Phuong Thao, Zeig C., Wagner M., Yasui H. (2012). Anaerobic co-digestion of organic waste and septic tank sludge at thermophilic condition (55°C). Journal of Science and technology, Vietnam Academy of Science and Technology (ISSN 0866-708X). Vol. 50, No. 1C. pp 9-17.

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Patents (registered):

- **System for wastewater treatment and canal, river, lake pollution control** (Patent No. 21678, Vietnam Office of Intellectual Property, 06 August 2019).
- **Pond system for wastewater emergency control and additional treatment** (Patent No. 21386, Vietnam Office of Intellectual Property, 20 June 2019).
- **Packaged anaerobic – aerobic wastewater treatment system BASTAFAT** (No. 9577, Vietnam Office of Intellectual Property).
- **Nozzle** used for generation and distribution of air bubbles in water treatment dissolved air flotation process (No. 10788, Vietnam Office of Intellectual Property).

- **Carrier media** made from processed bamboo powder and plastics for wastewater treatment (No. 1366, Vietnam Office of Intellectual Property).

Awards

- **Medal.** Awarded for the Compact Small-scale wastewater treatment station AFSB – 100. (Author). The first Vietnam TechMart 2003. Hanoi, November 2003.
- **Vietnam Environment Cup.** Awarded for the series of decentralized wastewater treatment solutions for urban, peri-urban and rural communities. The first Vietnam Environmental Technology Congress and Exhibition. Hanoi, April 2006.
- **Certificates of Merit.** Awarded for the achievements in scientific research activities in the period 2000 – 2005, by the Minister of the Vietnam Ministry of Education and Training (MOET), December 2006, and for the period 2006 – 2010, MOET, September 2011.
- **Thang Long prize** for scientific – technological achievements, by the Hanoi city authority, 2008.
- **Prize from Hanoi City** for scientific – technological achievements in occasion of 1000 years celebration of Thang Long – Hanoi city. 2010.
- **Medal.** Awarded for the Compact Small-scale wastewater treatment systems BASTAFAT and AFSB. (Author). Vietnam TechMart 2015. Hanoi, October 2015.

CERTIFICATION

I certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualification and my experiences. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if employed.

Nguyen Viet Anh (signed)