

CURRICULUM VITAE



1. Personal details:

Name: HONG ANH DAO
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2. Qualifications:

<i>Year of Graduation</i>	<i>Degree/Certificates</i>	<i>University</i>	<i>Country</i>
2018	Doctor of Philosophy (Engineering and Technology)	Sirindhorn International Institute of Technology, Thammasat University	Thailand
2016	Certificates of the Urban Environment and Health in Asia (UEHAS) exchange program	Graduate School of Engineering, The University of Tokyo	Japan
2010	Master of Engineering, Major: Environmental Engineering	Ho Chi Minh City University of Technology	Vietnam
2006	Bachelor of Engineering, Major: Environmental Engineering	Ho Chi Minh City University of Technology	Vietnam

3. Professional experience:

<i>Period (Month/Year)</i>	<i>Position</i>	<i>Responsibilities</i>	<i>Organization</i>
April, 2006 – May 2010	Consultant specialist	- Design Water & Waste Water Treatment System	Green-tech Joint Stock Company, HCMC, Vietnam
August, 2010 – present	Lecturer	- Teaching - Doing research	Faculty of Environment and Labor Safety – Ton Duc Thang University

4. Language

<i>Language</i>	<i>Listening</i>	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
English	Fluent	Fluent	Fluent	Fluent

5. Expertise and research interests

5.1. Main research orientation

- Environmental Engineering
- Recovery of valuable products from wastes
- Water Supply & Waste Water Treatment Technology
- Hydraulic, Drainage & Sanitation

5.2. List of research projects

No.	Project name	Funding institution & funded amount	Project duration	Position/role in the project
01	Waste Treatment and Management for Sustainable Development	Thammasat University Research Scholar, Contract No. 1/2559 200,000 Thai Baht	1/2016 – 1/2017	Key member
02	Study on treatment of landfill leachate in Southeastern region by continuous flow SBBR technology (ICEAS with substrate) combining electrochemical methods	National Foundation for Science and Technology Development (Vietnam) 677,000,000 VND	7/2019 – 7/2021	Scientific secretary
03	Study on removal of Natural Organic Matter (NOM) from surface water by coagulation and flocculation to mitigate the formation of chlorine disinfection by-products: a case study of Thu Duc Water Treatment Plant, Ho Chi Minh City, Vietnam	International Foundation for Science (Sweden), \$7000	01/2021 -7/2022	Principal Investigator
04	ASEAN IVO project: IoT system for water reuse in developing countries	National Institute of Information and Communications Technology (NICT), Japan, \$69500	04/2021 -03/2023	Project member

6. Publications

6.1. Books and book chapters

1. **N.A.D. Ho**, S. Babel (2021) Functional components of a bioelectrochemical system for removal and recovery of metals: A review. In: *Bioremediation, Nutrients, and Other Valuable Product Recovery*. Elsevier, pp 153-183.
2. **N.A.D. Ho**, S. Babel (2021) Roles of inoculum and substrate in bioelectrochemical system used for removal and recovery of metals from wastewater. In: *Bioremediation, Nutrients, and Other Valuable Product Recovery*. Elsevier, pp 231-246.
3. **N. A. D. Ho**; Duong, H. L.; Van Nhat, B.; Dan, N. H.; Thuan, N. C.; Son, T. B.; Hoinkis, J.; Le Luu, T. (2022). SnO₂-Mixed Oxide Electrodes for Water Treatment: Role of the Low-Cost Active Anode. In *Cost-efficient Wastewater Treatment Technologies: Engineered Systems* (pp. 255-284). Cham: Springer International Publishing.

6.2. Articles in ISI, Scopus covered journals

1. **Ho, N. A. D.**, Leo, C. P., Ta, A. T., & Nguyen, T. Q. (2024). From drainage to resource: a practice approach to reuse greywater for household irrigation purposes. *Water Practice & Technology*, wpt2024033
<https://doi.org/10.2166/wpt.2024.033>
2. **Ho, N. A. D.**, Bui, A. K., & Babel, S. (2023). Removal of Natural Organic Matter from Water by Coagulation and Flocculation to Mitigate the Formation of Chlorine-Disinfection By-Products at the Thu Duc Water Treatment Plant in Vietnam. *Science & Technology Asia*, 142-157.
[doi: 10.14456/scitechasia.2023.52](https://doi.org/10.14456/scitechasia.2023.52)
3. **Ho, N. A. D.**, Nguyen, V. H., & Babel, S. (2023). Application of Integrated Technologies for the Treatment of High-Strength Industrial Wastewater in Vietnam. *Journal of Environmental Engineering*, 149(10), 04023067.
<https://doi.org/10.1061/JOEEDU.EEENG-7360>
4. **Ho NAD**, Nguyen VH, Babel S. Operation of Different Reverse Osmosis (RO) Membrane Modules for the Treatment of High-Strength Wastewater to Enhance the Recovery of Clean Water—A Case Study in Bac Ninh, Vietnam. *Sustainability*. 2022; 14(23):16105. <https://doi.org/10.3390/su142316105>
5. **N.A.D. Ho** and C.P. Leo (2021). A review on the emerging applications of cellulose, cellulose derivatives and nanocellulose in carbon capture. *Environmental Research*. Volume 197 (2021) 111100. <https://doi.org/10.1016/j.envres.2021.111100>
6. T. M. T. Nguyen, **N.A.D. Ho**, and S.Babel (2021). Reuse of waste sludge from water treatment plants and fly ash for manufacturing of adobe bricks. *Chemosphere*. Volume 284 (2021) 131367.
<https://doi.org/10.1016/j.chemosphere.2021.131367>
7. **N.A.D. Ho**, S. Babel (2020). Bioelectrochemical technology for recovery of silver from contaminated aqueous solution: a review. *Environ Sci Pollut Res*.
<https://doi.org/10.1007/s11356-020-10065-y>
8. **N.A.D. Ho**; S. Babel (2019). Electrochemical reduction of different Ag(I)-containing solutions in bioelectrochemical systems for recovery of silver and simultaneous power generation. *Rsc. Advances*. Volume 9, Pages 30259–30268. DOI: [10.1039/c9ra06369b](https://doi.org/10.1039/c9ra06369b)
9. **N.A.D. Ho**; S. Babel (2019). Spontaneous reduction of low-potential silver(I) dithiosulfate complex in bioelectrochemical systems for recovery of silver and simultaneous electricity production. *Environmental Technology*,
<https://doi.org/10.1080/09593330.2019.1597171>
10. **N.A.D. Ho**; S. Babel; and S. Korakot (2018). Bio-electrochemical system for recovery of silver coupled with power generation and wastewater treatment from ammonia chelated solution. *Journal of Water Process Engineering*. Volume 23, June 2018, Pages 186–194.
<https://doi.org/10.1016/j.jwpe.2018.04.001>

10. **N.A.D. Ho**; S. Babel; F. Kurisu (2017). Bioelectrochemical reactors using AMI-7001S and CMI-7000S membranes as separators for silver recovery and power generation. *Bioresource Technology*, Vol. 244, Part 1, November 2017, pp. 1006-1014.

<http://dx.doi.org/10.1016/j.biortech.2017.08.086>

11. **N.A.D. Ho**; S. Babel; and S. Korakot (2017). Factors influencing silver recovery and power generation in bio-electrochemical reactors. *Environmental Science and Pollution Research*. Vol. 24, No. 26, September 2017, pp 21024–21037. [DOI 10.1007/s11356-017-9722](https://doi.org/10.1007/s11356-017-9722)

6.3. *Articles in other international journals:*

1. *I. Phanutda and N. A. D. Ho* (2019). Removal of natural organic matter from water by coagulation and flocculation to mitigate the formation of chlorine-disinfection by-products: a case study at Chinaimo water treatment plant, Vientiane capital, Laos.

Vietnam Journal of Science, Technology and Engineering. Vol. 61, No. 4. Pages 40-47.
[Doi: 10.31276/VJSTE.61\(4\).40-47](https://doi.org/10.31276/VJSTE.61(4).40-47)

2. A. Seenuan, T. Charoensukpatana, N. Chamchoy, **N. A. D. Ho**, S. Babel (2017). Recovery of silver from mixed metal solutions using a bio-electrochemical system. *Science & Technology Asia*, Vol.22 No.4 October - December 2017, pp. 1-10.

3. **Ho NAD**, Nguyen TMT, Nguyen TTTN, Ngo MK. Raw Water Quality Assessment for Improvement Plan at Thu Duc Water Treatment Plant, Vietnam. *Inżynieria Mineralna*. 2022;(2):135-40. <http://doi.org/10.29227/IM-2022-02-17>

6.4. *National/ International Conferences*

1. T. K. T. Tran, **N.A.D. Ho**, (2023). Assessment of adsorption efficiency of Kaoline-Chitosan composite beads for removal of Ca and As from aqueous solution in lab-scale . In Proceeding of the *4th International Conference on Environmental Technology and Innovations*, Ton Duc Thang University, Ho Chi Minh City, Vietnam, November 29th – 30th, 2023.

2. **N.A.D. Ho**, V.H. Nguyen (2022). Study on practical application of advanced oxidation process (AOP) and Reverse Osmosis (RO) membrane for treatment of high-strength wastewater. In Proceeding of the *2nd International Conference on Advance Technology & Sustainable Development (ICATSD2022)*, Industrial University of Ho Chi Minh City, Ho Chi Minh City, Vietnam, November 24th – 26th, 2022.

3. **N.A.D. Ho**, T. T. T. N. Nguyen, M. K. Ngo (2021). Raw water quality assessment for improvement of treatment process at Thu Duc Water Treatment Plant, Vietnam. In Abstract book of the *3rd International Conference on Environmental Technology and Innovations*, Ton Duc Thang University, Ho Chi Minh City, Vietnam, November 25th – 27th, 2021.

4. **N.A.D. Ho** and S. Babel (2019). Recovery of silver from aqueous solution using bio- electrochemical technology: A review. In Abstract book of *the 2nd Conference on Green Technologies for Sustainable Water 2019 (GTSW 2019)*, HCMC, Vietnam.

5. **N.A.D. Ho** and S. Babel (2018). Bioelectrochemical system for recovery of silver and electricity production from different Ag(I)-containing solutions. In *Proceedings of the 8th international conference sustainable management (IconSWM 2018)*, 22-24th November, 2018, Acharya Nagarjuna University, Guntur, AP, India.
6. **N.A.D. Ho** and S. Babel (2017). Silver recovery coupled with electricity production from $\text{Ag}(\text{S}_2\text{O})^{3-}$ complex in a bio-electrochemical reactor. In Abstract book of the *International Conference 2017 on Advanced Technology in Wastewater and Waste Management for Extractive Industries*, 23-24th October, 2017, Bali, Indonesia.
7. **N.A.D. Ho** and S. Babel (2017). Silver recovery and power generation from ammonia chelated silver solution in a bio-electrical chemical reactor. In *Proceedings of the 2nd International Conference on Civil engineering and Materials Science (ICCEMS2017)*, 26-28 May 2017, Seoul, South Korea, pp. 117-121
8. **N.A.D. Ho**; S. Babel; and P. Pratoomdee (2016). Recovery of Silver from Aqueous Solution by using Bio-Electrochemical System (BES) Technology. In *Proceedings of the Asia Pacific Conference on Biotechnology for Waste Conversion 2016 (BioWC2016)*, 6-8 December 2016, Hong Kong, pp. 229-232.
9. **N.A.D. Ho** (2011). Study on using MBM & sewage sludge instead of normal fuel of cement manufacture to save energy and environmental conserve. In *Proceedings of the Conference on Green-tech & Sustainable Development, University of Technical Education, HCM City, Vietnam*.
10. **N.A.D. Ho** (2010). *The Effective of Thailand – Germany Biogas Model in treating waste matter of livestock farm*. In Proceedings of the Viet Nam – Germany International Conference in Development Research & Solid Waste Treatment Technology, Sai Gon University, HCM City, Vietnam.
10. **N.A.D. Ho** (2010). *Electro-dialysis – ED in Sea Water treatment Technology*. Journal of Applied Science of Ton Duc Thang University, HCM City, Vietnam.

References

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