

Name	LE Cong Hao, PhD		
Position	Lecturer		
Academic career	Doctoral Degree	University of Science, VNUHCM	2013
	Master's degree	University of Science, VNUHCM	2008
	Undergraduate/bachelor's degree	University of Science, VNUHCM	2004
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	Lecturer	Faculty of Physics and Engineering Physics	2005 - Present
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>Body funding</i>	<i>Role/Period</i>
	Assessment of ISO 8690:1988 decontamination of radioactively contaminated surfaces and effects of Hydrogen Peroxide and Ultrasonic system on radioactive surface decontamination (C2017-18-16, VNUHCM).	VNUHCM	Leader 2017-2018
	Studying the accumulation and transfer characteristics of radioactive materials in some agricultural systems in Southern Vietnam. (Nafosted 2019. Code: 103.04-2019.10).	NAFOSTED	Leader 2019-2021
	Origin, distribution and long-term change of activity concentrations of natural radionuclides in stone lake ecosystems (VL2020-18-03, VNUHCM).	VNUHCM	Leader 2020-2022
	Study on the distribution coefficients of natural radionuclides in soil and aquatic environments and the application for prediction of the variation of natural background radiation in some soils and freshwater lakes in Vietnam. (VL2024-18-02)	VNUHCM	Leader 2024-2026
Industry collaborations over the last 5 years	<i>Project title</i>		<i>Partners</i>
	None		None
Patents and proprietary rights	<i>Title</i>		<i>Year</i>
	None		None

**Important
publications over
the last 5 years**

1. **Le Cong Hao**, Huynh Nguyen Phong Thu, Nguyen Van Thang, Le Quoc Bao, 2015. Radon and radium Concentrations in drinkable water supplies of the Thu Duc region in Ho Chi Minh city, Vietnam, *Applied Radiation and Isotopes: including data, instrumentation and methods for use in agriculture, industry and medicine* 105: 219-224.
2. **Le Cong Hao**, Mai Dinh Thuy, Do Trung Hieu, Zoltan Sas, Comparison of Decontamination Standards, 2015, *Hungarian Journal of Industrial Chemistry* 43(2):73-78.
3. **Le Cong Hao**, Nguyen Van Thang, Huynh Nguyen Phong Thu and Huynh Truc Phuong, 2017, Gross alpha and beta activity and annual committed effective dose due to natural radionuclides in some water spinach (*ipomoea aquatica* Forssk) samples in Ho Chi Minh City, Vietnam, *Journal of Environmental Radioactivity*, 173: 44-50.
4. Thang Nguyen Van, Ba Vu Ngoc, Thu Huynh Nguyen Phong, **Hao Le Cong**, Loan Truong Thi Hong, 2018, Radioactivity in airborne particulate and rainwater samples and deposition to ground in Ho Chi Minh City (Vietnam), *Journal of Radioanalytical and Nuclear Chemistry*, 316(02): 513-525.
5. Thang Nguyen Van, Ba Vu Ngoc, Thu Huynh Nguyen Phong, **Hao Le Cong**, Loan Truong Thi Hong, 2018, Gross alpha, gross beta and activity concentration of ^{226}Ra in some fertilizers commonly used in the south of Vietnam and health risk due to radionuclides transferred from fertilizers to food crops, *Journal of Radioanalytical and Nuclear Chemistry*, 317(01): 463-471. Thu Huynh Nguyen Phong, Thang Nguyen Van, Hao Le Cong, 2018, Efficiency response of an aged PIPS detector used in high resolution alpha-particle spectrometry, *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 908(11): 128-135.
7. Thu Huynh Nguyen Phong, Thang Nguyen Van, Ba Vu Ngoc, Nguyen Van Dong, **Hao Le Cong**, 2018, Soil radon gas in some soil types in the rainy season in Ho Chi Minh City, Vietnam, *Journal of Environmental Radioactivity*, 193-194: 27-35.
8. Thang Nguyen Van, Han Phan Thi Ngoc, Son Vi Xuan, Trong Tran Huu, Thu Huynh Nguyen Phong, **Hao Le Cong**, 2019, Modelling the mitigation speeds of ^{137}Cs , ^{90}Sr and ^{131}I in the topsoils and assessment of the radiological hazards, *Ecotoxicology and Environmental Safety*, 169: 216-224.
9. Thang Van Nguyen, Thu Phong Huynh Nguyen, **Hao Cong Le**, 2019, The effects of hydrogen peroxide solution and ultrasound on the dissolution of electrodeposited uranium oxide, *Journal of Radioanalytical and Nuclear Chemistry*, 319(03): 1321-1329.
10. Thang Nguyen Van, Ba Vu Ngoc, Thu Huynh Nguyen Phong, **Hao Le Cong**, 2019, 'Time to crop' for ^{137}Cs in the surface soil and its long-term effects to population based on model assessment, *Geoderma*, 341: 100-110.
11. Huynh Nguyen Phong Thu, Nguyen Van Thang, Truong Thi Hong Loan, Nguyen Van Dong, **Le Cong Hao**, 2019, Natural radioactivity and radon emanation coefficient in the soil of Ninh Son region, Vietnam, *Applied Geochemistry*, 104: 176-183.
12. Van Thang Nguyen, Xuan Son Vi, Nguyen Phong Thu Huynh, **Cong Hao Le**, 2019, Optimization of uranium separation using silica gel impregnated tri-n-butyl phosphate for alpha spectrometry analysis of soil samples, 322: 1179-1183.
13. Nguyen Van Thang, Huynh Nguyen Phong Thu, **Le Cong Hao**, 2020. Levels of ^{226}Ra in groundwater samples collected in Phu Yen province, Vietnam associated with health risks to local population and

impacts on the maize (*Zea mays* L.) soil. *Environmental Science and Pollution Research*, 27: 31812–31826.

14. Nguyen Van Thang, Huynh Nguyen Phong Thu, **Le Cong Hao**, 2020. Accumulation rates of natural radionuclides (^{40}K , ^{210}Pb , ^{226}Ra , ^{238}U , and ^{232}Th) in topsoils due to long-term cultivations of water spinach (*Ipomoea Aquatica* Forssk.) and rice (*Oryza Sativa* L.) based on model assessments: A case study in Dong Nai province, Vietnam. *Journal of Environmental Management*, Volume 271, 1 October 2020, 111001.

15. Ba Ngoc Vu, Thien Ngoc Bui, Phong Thu Nguyen Huynh, **Hao Cong Le**, Phuong Truc Huynh & Hong Loan Thi Truong, 2020. Semi-experimental evaluation for radon exhalation rate and excess lifetime cancer risk from potential radon exposure for using fly ash building materials. *Journal of Radioanalytical and Nuclear Chemistry*, 326: 975–981.

16. Nguyen Van Thang, Huynh Nguyen Phong Thu, Vu Ngoc Ba, **Le Cong Hao**, 2021. Long-term accumulation of ^{226}Ra in some agricultural soils based on model assessment. *Agricultural Water Management*, Volume 243, 1 January 2021, 106453.

17. Truong Thi Hong Loan, Vu Ngoc Ba, Dang Thi Thuy Dan, Vuong Minh Tri, Huynh Thi Yen Hong, Truong Huu Ngan Thy, Nguyen Thi Truc Linh, **Le Cong Hao** & Huynh Truc Phuong, Impacts of TENORM from fertilizers on soil and vegetables and the effective dose rate due to ingestion of vegetables at the agricultural zone in Vietnam. *Journal of Radioanalytical and Nuclear Chemistry*, 327: 609–616.

18. Van Thang Nguyen, Binh An Le, Nguyen Phong Thu Huynh & **Cong Hao Le**, 2021, Levels of ^{226}Ra in some paddy soils in the Mekong Delta region (Vietnam): current status and long-term assessment, *Journal of Radioanalytical and Nuclear Chemistry*, 329, 829–838.

19. Van Thang Nguyen, Binh An Le, Nguyen Phong Thu Huynh & **Cong Hao Le**, 2021, Natural Radionuclides in Rice Soils in the Mekong Delta Region, Vietnam: Health Risk, Transfer to Rice, and Long-Term Accumulation in Topsoil, Water, Air, & Soil Pollution volume 232, Article number: 354.

20. **Le Cong Hao**, Huynh Nguyen Phong Thu, Nguyen Van Thang, Le Quoc Bao, 2015. Radon and radium Concentrations in drinkable water supplies of the Thu Duc region in Ho Chi Minh city, Vietnam, *Applied Radiation and Isotopes: including data, instrumentation and methods for use in agriculture, industry and medicine* 105: 219-224.

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24. Thang Nguyen Van, Ba Vu Ngoc, Thu Huynh Nguyen Phong, **Hao Le Cong**, Loan Truong Thi Hong, 2018, Radioactivity in airborne particulate and rainwater samples and deposition to ground in Ho Chi Minh City (Vietnam), *Journal of Radioanalytical and Nuclear Chemistry*, 316(02): 513-525.

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from fertilizers to food crops, *Journal of Radioanalytical and Nuclear Chemistry*, 317(01): 463-471.

26. Thu Huynh Nguyen Phong, Thang Nguyen Van, **Hao Le Cong**, 2018, Efficiency response of an aged PIPS detector used in high-resolution alpha-particle spectrometry, *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 908(11): 128-135.

27. Thu Huynh Nguyen Phong, Thang Nguyen Van, Ba Vu Ngoc, Nguyen Van Dong, **Hao Le Cong**, 2018, Soil radon gas in some soil types in the rainy season in Ho Chi Minh City, Vietnam, *Journal of Environmental Radioactivity*, 193-194: 27-35.

28. Thang Nguyen Van, Han Phan Thi Ngoc, Son Vi Xuan, Trong Tran Huu, Thu Huynh Nguyen Phong, **Hao Le Cong**, 2019, Modelling the mitigation speeds of ^{137}Cs , ^{90}Sr and ^{131}I in the topsoils and assessment of the radiological hazards, *Ecotoxicology and Environmental Safety*, 169: 216-224.

29. Thang Van Nguyen, Thu Phong Huynh Nguyen, **Hao Cong Le**, 2019, The effects of hydrogen peroxide solution and ultrasound on the dissolution of electrodeposited uranium oxide, *Journal of Radioanalytical and Nuclear Chemistry*, 319(03): 1321-1329.

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31. Huynh Nguyen Phong Thu, Nguyen Van Thang, Truong Thi Hong Loan, Nguyen Van Dong, **Le Cong Hao**, 2019, Natural radioactivity and radon emanation coefficient in the soil of Ninh Son region, Vietnam, *Applied Geochemistry*, 104: 176-183.

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35. Ba Ngoc Vu, Thien Ngoc Bui, Phong Thu Nguyen Huynh, **Hao Cong Le**, Phuong Truc Huynh & Hong Loan Thi Truong, 2020. Semi-experimental evaluation for radon exhalation rate and excess lifetime cancer risk from potential radon exposure for using fly ash building materials. *Journal of Radioanalytical and Nuclear Chemistry*, 326: 975–981.

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37. Truong Thi Hong Loan, Vu Ngoc Ba, Dang Thi Thuy Dan, Vuong Minh Tri, Huynh Thi Yen Hong, Truong Huu Ngan Thy, Nguyen Thi Truc Linh, **Le Cong Hao & Huynh Truc Phuong**, Impacts of

TENORM from fertilizers on soil and vegetables and the effective dose rate due to ingestion of vegetables at the agricultural zone in Vietnam. Journal of Radioanalytical and Nuclear Chemistry, 327: 609–616.

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39. Van Thang Nguyen, Binh An Le, Nguyen Phong Thu Huynh & **Cong Hao Le**, 2021, Natural Radionuclides in Rice Soils in the Mekong Delta Region, Vietnam: Health Risk, Transfer to Rice, and Long-Term Accumulation in Topsoil, Water, Air, & Soil Pollution volume 232, Article number: 354.

40. Nguyen Van Thang, Huynh Nguyen Phong Thu, **Le Cong Hao**, Uranium isotopes in groundwater in Ho Chi Minh City and related issues: Health risks, environmental effects, and mitigation methods, Journal of Contaminant Hydrology , 245, , 2022

41. Van Thang Nguyen, Nguyen Phong Thu Huynh, Huynh Thi Yen Hong, Truong Huu Ngan Thy, Huynh Truc Phuong, **Cong Hao Le**, Background Radiation in some Quarries and Quarry Lakes in Binh Duong Province, Vietnam, Journal of Radioanalytical and Nuclear Chemistry, 331, , 2022

42. Van Thang Nguyen, Nguyen Phong Thu Huynh, Huynh Thi Yen Hong, Truong Huu Ngan Thy & **Cong Hao Le**, Effects of agricultural activities on long-term accumulations of 226Ra and 210Po in topsoil, Journal of Radioanalytical and Nuclear Chemistry, 331, 4287–4295, , 2022

43. Huynh Nguyen Phong Thu, Nguyen Van Thang, Vu Ngoc Ba, **Le Cong Hao**, Truong Thi Hong Loan, Treatment for removing radium in soil and groundwater, Applied Radiation and Isotopes , 182, 110127, , 2022

44. Le Binh An, Van Thang Nguyen, Nguyen Phong Thu Huynh, Huynh Thi Yen Hong, Truong Huu Ngan Thy, Huynh Truc Phuong, **Cong Hao Le**, Activity Concentrations of Natural Radionuclides in Soil and Water Around Some Quarries and Potential Human Health Effects, Water, Air, & Soil Pollution , 234, , 2023

45. Van Thang Nguyen, Nguyen Phong Thu Huynh, Thi Yen Hong Huynh, Huu Ngan Thy Truong, Binh An Le, Truc Phuong Huynh, **Cong Hao Le**, Effects of soil erosion on natural radioactivity in water in a typical quarry lake in Vietnam based on model assessment, Journal of Radioanalytical and Nuclear Chemistry , 332, 2359–2366, , 2023

46. Nguyen Van Thang, Huynh Nguyen Phong Thu, **Le Cong Hao**, Influences of Soil and Plant Types on The Mitigation Rate of Radium-226 in The Cultivated Soils, Water, Air, & Soil Pollution, 235, , 2023

47. Nguyen Van Thang, Huynh Nguyen Phong Thu, **Le Cong Hao**, Distribution Coefficients and Accumulation Rates of Ra-226 and Po-210 in Some Agricultural Soils, Eurasian Soil Science , 57, 524–535, , 2024

48. Van Thang Nguyen, Thi Yen Hong Huynh, Huu Ngan Thy Truong, Nguyen Phong Thu Huynh & **Cong Hao Le**, Mitigation of radium-226 in agricultural soils and influence of soil-to-plant transfer factor and physical– chemical properties of soil, Journal of Radioanalytical and Nuclear Chemistry , 333, pages 2155–2162, , 2024.

Activities in specialist bodies over the last 5	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	None		

years	
Website	https://phys.hcmus.edu.vn