

Name	VO Hong Hai, PhD		
Position	- Lecturer - Deputy head, External Relations Office		
Academic career	Doctoral Degree	Osaka University	2008
	Master Degree	University of Science, VNUHCM	2003
	Undergraduate/Bachelor Degree	University of Science, VNUHCM	1999
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	Lecturer	Faculty of Physics - Engineering Physics	1999-Present
	Deputy head, External Relations Office	University of Science, VNUHCM	2017-present
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>Body funding/partner</i>	<i>Role/ Period</i>
	1. Development of high-tech radiation detector - applied for radiation studies	Vietnam National University – Ho Chi Minh City	Principal investigator 2022-2024
	2. Induced-neutron study in proton accelerator.	partner with Prof. Augustine E. Chen, NCU, Taiwan.	Principal investigator 2020 ~2022
	3. Collaboration project of advanced electronic development	partner with Prof. Masaharu Nomachi, Osaka University, Japan.	Principal investigator From 2010 ~ now
	4. Study on Cosmic-ray induced background on HPGe detector	National Nafosted foundation	Principal investigator 2015 ~ 2020
Industry collaborations over the last 5 years	<i>Project title</i>		<i>Partners</i>
	None		None
Important publications over the last 5 years	1. Pham Thi Cam Lai, Vo Hong Hai, Nguyen Tri Toan Phuc, “Impacts of Geant4 hadronic physics models on secondary particle productions in proton therapy simulations” Radiation Physics and Chemistry, Volume 229, 2025, 112451, ISSN 0969-806X, https://doi.org/10.1016/j.radphyschem.2024.112451. 2. V. H. Hai, N. T. T. Phuc, H. T. K. Trang, T. T. H. Loan and P. L. H. Sang, "Development Of FPGA-Based Nuclear Electronics Using NI MyRIO		

	Hardware For Small-Scale Radiation Detector Systems," in IEEE Transactions on Nuclear Science, 2024 doi: 10.1109/TNS.2024.3481408. 3. Vo Hong Hai, Nguyen Minh Dang, Nguyen Tri Toan Phuc, Hoang Thi Kieu Trang, Truong Thi Hong Loan, Phan Le Hoang Sang and Masaharu Nomachi, "Enhancing Neutron/Gamma Discrimination in the Low-Energy Region for EJ-276 Plastic Scintillation Detector Using Machine Learning", IEEE Transactions on Nuclear Science, 2024. DOI: 10.1109/TNS.2024.3456863. 4. Vo Hong Hai, Nguyen Quoc Hung, Nguyen Tri Toan Phuc, Masaharu Nomachi, "Contributions of cosmic-ray components to the HPGe gamma spectrometer background spectrum within the 0°–45° Zenith angle range" Radiation Measurements, Vol. 179, 2024, 107322, ISSN 1350-4487, https://doi.org/10.1016/j.radmeas.2024.107322. 5. Hai Vo Hong, Hung Nguyen Quoc, Phuc Nguyen Tri Toan, Loan Truong Thi Hong, Masaharu Nomachi, Zenith angle dependence on cosmic-ray background in HPGe gamma spectrometers by using GEANT4 simulation, Applied Radiation and Isotopes, Vol. 211, 2024, 111418, ISSN 0969-8043, https://doi.org/10.1016/j.apradiso.2024.111418. 6. Vo Hong Hai, "Development of an FPGA-Based Pulse-Height Analyzer for scintillation Detectors in Gamma Energy Spectroscopy", IEEE transactions on electrical and electronic engineering, 2024; 19: 1737–1742, Published online in Wiley Online Library (wileyonlinelibrary.com). DOI:10.1002/tee.24131 7. Vo Hong Hai, Nguyen Tri Toan Phuc, Nguyen Trung Hieu, "Development and implementation of a wireless real-time radiation monitoring system for LINAC beam delivery monitoring", Science & Technology Development Journal 2024, 27(2): 3482-3488. ISSN: 1859-0128 https://doi.org/10.32508/stdj.v27i2.4303 8. Nguyen Khac Son, Vo Hong Hai, Tran Ngoc Tien Phat, Tran Cong Thien, "Secondary neutrons induced from a medical proton accelerator in a water phantom", Brazilian Journal of Development, Curitiba, v.10, n.4, p. 01-10, 2024. DOI: https://doi.org/10.34117/bjdv10n4-049 9. Pham Thi Cam Lai, Nguyen Tri Toan Phuc, Vo Hong Hai "Sensitivity of secondary particle emission to hadronic physics models in GATE/Geant4 proton therapy simulations at 100 MeV", Science & Technology Development Journal 2023, 26(3):2930-2936. ISSN: 1859-0128. https://doi.org/10.32508/stdj.v26i3.4162 10. Nguyen Tri Toan Phuc, Vo Hong Hai "Effects of the single-particle overlap function on the $^{16}\text{O}(p,2p)^{15}\text{N}$ Reaction", Science & Technology Development Journal, 26(2):2838-2847, 2023. ISSN: 1859-0128. https://doi.org/10.32508/stdj.v26i2.4102 11. Vo Hong Hai, Nguyen Tri Toan Phuc, "Development of apparatus for mean-lifetime measurement of cosmic-ray muons using plastic scintillation
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	detectors and FLASH-ADC/FPGA-based readout electronics”, Science & Technology Development Journal, 26(1):2645-2651, 2023. ISSN: 1859-0128. https://doi.org/10.32508/stdj.v26i1.3925 12. Vo Hong Hai, Tran Cong Thien, Phan Thanh Xuan, Tran Tien Phat, Masaharu Nomachi, “Scintillation detectors for fast neutron/gamma discrimination using PSD technique on charge integration ratio”, Workshop on New Trends in Nuclear Physics Detectors, 2021. 13. Masaharu Nomachi, Hai Vo Hong “International school for radiation measurements in Asia”, EPJ Web of Conferences 225, 10004, 2020. https://doi.org/10.1051/epjconf/202022510004		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	None		
Website:	https://phys.hcmus.edu.vn		