Name	VU Thi Hanh Thu		
Position	Associate Professor, Department of Applied Physics		
Academic Career		***Institution***	***Year***
	Doctoral degree	University of Science, VNUHCM	2009
	Master degree	University of Science, VNUHCM	2005
	Undergraduate/bachelor degree	Ho Chi Minh City University of Education	2001
Employment	***Position***	***Employer***	***Period***
	Lecturer	Faculty of Physics - Engineering Physics	2001-Present
Research and development projects over the past 5 years	***Name of project or research focus***	***Body funding***	***Role/ Period***
	Synthesizing and researching the combination of $SrTiO_3$/g-C_3N_4/Pt type II heterostructure materials to improve durability and performance in the photo-water splitting reaction to generate H_2	NAFOSTED 103.03 -2021.153	Principal investigator 2023-2025
	Research and synthesis Fe_3O_4/TiO_2/M sensors that use Raman spectroscopy to identify pesticides	VNU, VL2022-18-01	Principal investigator 2022-2024
	Investigation and synthesis of novel combinations of nanomaterials Surface modification of Cr_2O_3 (Cr_2O_3-Ir:TiO_2, Cr_2O_3-Ir:$SrTiO_3$) and Ir doped-TiO_2 and $SrTiO_3$ for high-performance H_2 photogeneration	NAFOSTED, 103.99-2018.364	Principal investigator 2019-2021
Industry collaborations over	***Project titles***	***Partners***	

<table>
<tr><td>the past 5 years</td><td>None</td><td>None</td></tr>
<tr><td rowspan="2">Patents and proprietary rights</td><td>Title</td><td>Year</td></tr>
<tr><td>None</td><td>None</td></tr>
<tr><td>Important publications over the last 5 years</td><td colspan="2">Selected recent publications from a total of approx.:
1. Trang TN, Bao NT, Doanh TT, Thu VT. Multifunctional engineering on the ultrasensitive driven-dual plasmonic heterogenous dimer system of 1D semiconductor for accurate SERS sensitivity and quantitation. Journal of Science: Advanced Materials and Devices. 2024 Mar 1;9(1):100670.
2. Trang TN, Bao NT, Vinh LQ, Thu VT. Centrifuge tube-based SERS Sensor on Heterogenous Dimers of Plasmonic Coupling as a Microreactor for Ultrasensitive SERS Sensing Pesticide Residues in Environmental Water. Sensors and Actuators A: Physical. 2024 Feb 16:115173.
3. Trang TN, Trinh NT, Bao NT, Thu VT. Hotspot-type silver-polymers grafted nanocellulose paper with analyte enrichment as flexible plasmonic sensors for highly sensitive SERS sensing. Journal of Science: Advanced Materials and Devices. 2023 Sep 1;8(3):100597
4. Trang TN, Doanh TT, Trinh NT, Thu VT. Self-assembly of Ag photosensitized SrTiO3 3D binary architectures for highly efficient visible light-driven dyeing wastewater splitting. Journal of Alloys and Compounds. 2022 Sep 25;916:165323.
5. Trang TN, Doanh TT, Vinh LQ, Thu VT. A hybrid Ag/TiO2 nanoarray-based in situ charge transfer toward multi-functional active-platform. Ceramics International. 2021 Oct 1;47(19):27524-34.</td></tr>
<tr><td rowspan="2">Activities in specialist bodies over the last 5 years</td><td>Organization</td><td>Role</td><td>Period</td></tr>
<tr><td>Vietnam Physics Association</td><td>Member</td><td>2002 - now</td></tr>
<tr><td>Website</td><td colspan="3">https://phys.hcmus.edu.vn/</td></tr>
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