HA PHAN

			MOBILE	**+46-730-269-807**
			LinkedIn	**Vu Duc Ha Phan**
Citizenship: VIETNAMESE	DOB: 1991-11-15	Gender: Male	EMAIL ID	**ducha1511@gmail.com**

Correspondence Address	Lomvägen 18A, 192 55 Sollentuna, Sweden
Permanent Address	330 Phan Van Tri Street, Ward 11, Binh Thanh District, Ho Chi Minh City, Vietnam

Objective	To find a global organization where my research and development skills, my knowledge and expertise as an organic chemist and my interpersonal skills can be utilized to the fullest and in association with me looking to hone my research and critical thinking skills to further my profession in both academia and industry for the longer run.

Educational Qualifications

Grade	*School / College*	*University*	*Duration*	*% / CGPA*
Bachelor (Chemical Engineering)	Faculty of Chemical Engineering University of Technology	Vietnam National University – HCMC Vietnam	Aug 2009 – Jan 2014	8.32/10.00
Master (Chemical Engineering)	Department of Chemical Engineering College of Engineering	National Tsing Hua University Taiwan	Feb 2015 – Jan 2017	4.14/4.30
Doctorate (Organic Chemistry)	Department of Organic Chemistry Chemistry Section	Stockholm University Sweden	Mar 2020 – Sep 2024	Godkänd

Areas of Interest	Organic Chemistry, Material Chemistry, Medicinal Chemistry, Chemical Engineering and related fields	
Technical Expertise	***Chemical Engineering:*** Chemical Processes, Industrial-Scale Reactions, High Pressure Reactions, Supercritical Fluids ***Organic Chemistry:*** Organic Synthesis, Homogeneous and Heterogenous Catalysis, Photochemistry, Electrochemistry ***Material Chemistry:*** Metal-Organic Frameworks, Covalent-Organic Frameworks, Zeolites, Bimetallic Nanoparticles ***Characterization Techniques:*** NMR, TOF-MS, GC/MS-FID, HPLC/MS-UV, PXRD, TGA, XRF, SEM, TEM, ED, EDS, AFM, MAS-NMR, FT-IR, UV-Vis, Fluorescence Spectroscopy, Gas Absorption Analysis, XAS, XPS	
Skill Sets	Certificates	OHSAS 18001:2007, ISO 45001:2018, ISO 14001:2015, 5-core Tools, 7 QC Tools
	Languages Known	***Vietnamese*** (mother tongue), ***English*** (IELTS 7.0, 2019; TOEIC 925, 2019), ***Chinese*** (intermediate), ***Swedish*** (SFI 3D, 2023), ***Korean*** (TOPIK 2, 2018), ***Japanese*** (JLPT N4, 2014)

Publications and Conferences

2024	- **H. Phan**, P. Martinez-Pardo, C. S. Elmore, B. Martín-Matute, *Carbon-Labelled Chiral Cyclic Carbonate Synthesis Using Hafnium-Based Metal-Organic Framework Catalyst [Manuscript in preparation]* - **H. Phan**, M. J. Cabrera-Afonso, B. Martín-Matute, *Chemoselective Oxidative Carboxylation of Alkenes Using CO_2 Under Heterogeneous Conditions [Manuscript]* - **H. Phan**, R. Gueret, P. Martinez-Pardo, A. Valiente-Sanchez, A. Slabon, B. Martín-Matute, *Heterogeneous-Catalyst-Promoted Carbonylation of Aryl Iodides Using Carbon Dioxide [Manuscript]* - MOF2024, 9th International Conference on Metal-Organic Frameworks and Open Framework Compounds, 15-19/07/2024, Singapore - CO2PEATE Annual Meeting, 08-10/04/2024, Tromsø, Norway *[Oral presentation]*
2023	- IKCOC-15, The 15th International Kyoto Conference on New Aspects of Organic Chemistry, 20-23/11/2023, Kyoto, Japan - CO2PEATE Annual Meeting, 13-15/06/2023, Göteborg, Sweden *[Oral presentation]* - NordCO2 Annual Meeting, 24–27/04/2023, Saariselkä, Finland *[Oral presentation]*
2022	- CO2PEATE Annual Meeting, 26-28/09/2022, Rostock, Germany *[Oral presentation]* - NordCO2 Annual Meeting, 16–18/08/2022, Hveragerði, Iceland *[Poster presentation]* - Mistra SafeChem Research Student Group, 09/06/2022, Digital meeting, *[Oral presentation]* - CO2PERATE Annual Meeting, 21–23/02/2022, Digital meeting *[Oral presentation]*
2021	- NordCO2 Annual Meeting, 25–26/11/2021, Oslo, Norway *[Poster presentation]*
2017	- **D. H. Phan-Vu** and C. S. Tan, *Synthesis of phthalate-free plasticizers by hydrogenation in water using RhNi bimetallic catalyst on aluminated SBA-15, RSC Adv., 2017, 7, 18178–18188*
2016	- The 15th Symposium on Development of Supercritical Fluid Technology and Application, the 4th Cross-Strait Symposium on Supercritical Fluid Technology and the 2nd International Workshop on Supercritical Fluid Dyeing Technology (TSCFA2016), 8–10/10/2016, Kaohsiung, Taiwan *[Oral presentation]* - The 23th Regional Symposium on Chemical Engineering (RSCE2016), "Innovation in Chemical Engineering towards the linkages among education, academia, and industry", 27–28/10/2016, Vungtau City, Vietnam *[Oral presentation]*

Work Experiences

Position	*Organization/Duration*	*Description*
Research Assistant	MANAR Lab Vietnam National University *Jan 2014 – Jan 2015*	Key lab for Molecular and Nanoarchitecture (MANAR Lab) was established under the supervision of Professor Nam T. S. Phan. The lab focuses on the application of heterogeneous and homogeneous catalysts in organic transformations. One of my main duties in the lab was developing a Manganese-based Metal-Organic Framework (MOF) heterogeneous catalyst for C-N direct coupling reactions. Besides, the lab works required me to be familiar with material characterization techniques and chemical compound purification. I also assisted our professor in the research guidance of new students, research publications and lab management.

Master Student	Supercritical Fluid Lab National Tsing Hua University *Feb 2015 – Jan 2017*	Supercritical Fluid Lab was supervised by Prof. Chung-Sung Tan who has solid experience and worldwide collaboration in the fields of CO_2 capture, supercritical fluid technology and reaction engineering. Our lab focuses on the applications of supercritical fluids in metal deposition, solvent for chemical reactions, extraction and purification. I did my study on aromatic hydrogenation to produce non-phthalate plasticizers as demanded by a Taiwan plastic company. Supercritical fluid deposition (SFD) technique was used to prepare well-dispersed RhNi bimetallic particles on an aluminated silica support. The reaction was done in water and gave excellent selectivity towards *cis*- products.
Deputy Manager	R&D Department Hyosung Vietnam *Apr 2017 – Mar 2020*	Hyosung Corporation is a South Korean industrial conglomerate founded in 1966; Hyosung Vietnam is an overseas factory which focuses on tire reinforcement materials, and Tire Cord Plant is one of the Hyosung Vietnam's plants. As a manager in R&D Department, I am responsible for the development and approval of new products, including: setting-up spinning conditions for desired PET and Nylon-66 fibers' structure; optimizing Resorcinol-Formaldehyde Latex (RFL) dip recipes for treatment of the tire cords. Doing tire structure analysis in order to generally understand the behavior of our products on customers' side. Furthermore, conducting research projects on the factors that may affect the product's properties. Besides, I assist other related departments and customers with technical consultancy, guidance and advices as well as doing business trips to customers' factories.
Exchange PhD Student	ICIQ - Institute of Chemical Research of Catalonia *Oct 2022 – Dec 2022*	ICIQ was founded in 2000 and is located in Tarragona, Spain. I had a chance to do my exchange there in the lab of Prof. Ruben Martin. I worked with Nickel complexes and photoredox catalysts in organic reactions. The novel methodology allows the rapid construction of complex molecules from CO_2 which is very useful for isotopic labelling applications.
Exchange PhD Student	AstraZeneca R&D *Jan 2024 – Feb 2024*	AstraZeneca R&D Gothenburg is the center of excellence of the multinational pharmaceutical company. I developed a novel approach for synthesis pharmaceuticals labelled with carbon isotopes under the supervision of Dr Chad Elmore. This methodology allows the rapid and efficient synthesis of ^{13}C- and ^{14}C-labelled compounds which can be used in metabolism study as a part of drug development. Besides, I also learn about pharmaceutical development processes, scale-up, automation and so on.
PhD Fellow	Martín-Matute's Lab Stockholm University *Mar 2020 – Now*	Stockholm University is located in the heart of Stockholm and among the most prestigious research institutes in Sweden. I am working at Department of Organic Chemistry under supervision of Prof. Belén Martín-Matute and also co-supervised by Prof. Xiaodong Zou (Department of Materials and Environmental Chemistry, Stockholm University). My research focuses on development of novel and sustainable methodologies to use CO_2 as an alternative carbon source to fossil fuel for chemical synthesis. Hence, several effective catalysts based on Hf-PCN-222, Hf-PCN-226, and MIL-101(Cr) were developed for this purpose. The use of MOFs as heterogeneous catalysts allows multi-step reactions, multi-catalytic activity, recyclability and selectivity. This role requires me to be familiar with various types of organic synthesis, material synthesis and characterization techniques.

Outreach Activities

- *Forskarskolan at Stockholm University 2023*, supervised 7 students with the topic of "Catalytic Organic Transformations by Heterogeneous Catalysts"
- *Zoom to a high school in Sweden*, participated 5 times, gave 3 lectures, including: (1) Metal-Organic Framework: A Bridge Between Inorganic and Organic Chemistry; (2) How Do Scientists Weave Fabric from Molecules; (3) Metathesis Reaction: a Nobel Prize in Chemistry Improving Our Daily Life

Selected Awards and Honors

2023	- Hilda Rietz stipendiestiftelse
2020	- Early-Stage Researcher in Marie Skłodowska-Curie Action – Innovative Training Network, grant no. 859910 (CO_2PERATE)
2016	- National Tsing Hua University International Student Scholarship - 2016 Enterprise Visit for International Graduate Students, CTCI Foundation
2015	- National Tsing Hua University International Student Scholarship - National Tsing Hua University – Spring 2015 Admission for Master's Degree in the Department of Chemical Engineering
2013	- Chairman of the People's Committee of Hochiminh City, Certificate of Merit for the excellence achievements in study, research and training - Hochiminh Communist Youth Union of the University of Technology, Vietnam National University Hochiminh City, First Prize of "Green Environment" Contest 2013 - Youth Newspaper and Vietnam Export Import Bank, Nguyen Thai Binh scholarship 2013
2012	- University of Technology Merit scholarship, academic year 2011 – 2012
2011	- Rector of the University of Technology, Vietnam National University, Hochiminh City, Certificate of Merit for achieving the title "Very good student at all aspects" in academic year 2010 – 2011 - Honor and Talented Program scholarship

References

1	Belén Martín-Matute *Professor* *Head of PhD Studies*	Department of Organic Chemistry	Stockholm University *Universitetsvägen 10 A, Stockholm, Sweden*	+46-816-2438 belen.martin.matute@su.se
2	Thanh Nguyen *Associate Principal Scientist*	Synthetic Chemistry and High-Throughput Experimentation	AstraZeneca R&D *Pepparedsleden 1, Mölndal, Sweden*	+46-730-670-039 thanh.nguyen@astrazeneca.com
3	Pablo Martínez-Pardo *Senior Research Scientist*	Isotope Chemistry	AstraZeneca R&D *Pepparedsleden 1, Mölndal, Sweden*	+34-66306-5607 pablo.martinezpardo@astrazeneca.com

The above information provided by me is true and has all the relevant documents to authenticate the same. **Ha Phan**