

Ha Phan

PhD in Organic Chemistry

As a highly skilled and passionate organic chemist – materials scientist with three-year industrial experience, I am committed to contribute my highest expertise in the development and success of the organization.
Detailed information can be provided upon request.

About

CONTACT

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Sweden

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EDUCATION

Stockholm University

PhD in Organic Chemistry

National Tsing Hua University

MSc in Chemical Engineering

Vietnam National University

BEng in Organic Chem. Eng.

SKILLS

Organic Synthesis

Materials Science

Analytical Techniques

Electrochemistry

Photochemistry

Isotope labeling

Work Experience

STOCKHOLM UNIVERSITY, Department of Organic Chemistry

Stockholm, Sweden | PhD Fellow | 2020-2024

- *PhD Thesis:* "Catalytic Transformation of CO_2 into Organic Compounds". ISBN: 978-91-8014-882-5.
- *Article:* H. Phan, R. Gueret, P. Martínez-Pardo, A. Valiente, A. Jaworski, A. Slabon, B. Martín-Matute, "Synthesis of Benzoic Acids from Electrochemically Reduced CO_2 Using Heterogeneous Catalysts", *ChemSusChem* **2024**, e202401084.
- *Article:* H. Phan, M. Jesús Cabrera-Afonso, P. de la Cruz-Sánchez, B. Martín-Matute, "Auto-Relay Catalysis for the Oxidative Carboxylation of Alkenes into Cyclic Carbonates by a MOF Catalyst" (Under revision).

ASTRAZENECA R&D, Isotope Chemistry

Mölndal, Sweden | Visiting Researcher | Jan-Feb 2024

- *Article:* H. Phan, P. Martínez-Pardo, P. de la Cruz-Sánchez, J. Bergare, C. S. Elmore, B. Martín-Matute, "Synthesis of Carbon-Isotope-Labeled Chiral Cyclic Carbonates Using Near Stoichiometric Amount of CO_2" (Manuscript).

ICIQ – Institut Català d'Investigació Química

Tarragona, Spain | Visiting Researcher | Oct-Dec 2022

- *Article:* J. R. Lyonnet, A. Velasco-Rubio, R. Abrams, K. Mühlfenzl, X. Chen, H. Phan, A. Cerveri, J. T. M. Correira, C. S. Elmore, M. W. Paixão, R. Martin, "Photocatalytic Multicomponent Radical Coupling for the Direct Incorporation of Labeled Carbon Dioxide" (Manuscript).

HYOSUNG VIETNAM, Research and Development Department

Dongnai, Vietnam | R&D Manager | 2017-2020

- R&D Manager in fiber reinforcement materials.
- Development of Resorcinol formaldehyde latex (RFL) chemical treatment.
- Support and consultancy to customer, production and QA/QC.

NATIONAL TSING HUA UNIVERSITY, Department of Chemical Engineering

Hsinchu, Taiwan | MSc Student | 2015-2017

- *MSc Thesis:* "Synthesis of Phthalate-Free Plasticizers by Hydrogenation in Water Using RhNi Bimetallic Catalyst on Aluminated SBA-15", Grade: 95/100.
- *Article:* D.-H. Phan-Vu, 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.

VIETNAM NATIONAL UNIVERSITY – HCM, University of Technology

Hochiminh City, Vietnam | BEng Student and Research Assistant | 2009-2014

- *BEng Thesis:* "$[Mn_2(bdc)_2(DMF)_2]$ MOF as an Efficient Heterogeneous Catalyst for Direct Amination of Azoles Under Mild Reaction Conditions", *Honor and Talented Degree*.

Languages

English

Vietnamese

Swedish

Chinese

Selected Awards and Honors

- 2023, Hilda Rietz stipendiestiftelse.
- 2020, Participant of Nordic Consortium for CO_2 Conversion ($NordCO_2$).
- 2020, PhD Fellowship, Marie Skłodowska-Curie Action – Innovative Training Network, grant no. 859910 (CO_2PERATE).
- 2016, Enterprise Visit for International Graduate Students, CTCI Foundation.
- 2015, National Tsing Hua University's International Student Scholarship.
- 2013, Certificate of Merit for the Excellent Achievements.
- 2011, Certificate of Merit "Very good student at all aspects".
- 2011, Honor and Talented Program scholarship.

Expertise

ORGANIC CHEMISTRY

Small Molecule Synthesis

Homogeneous Catalysis

Heterogeneous Catalysis

Photochemistry

Electrochemistry

MATERIALS SCIENCE

Metal-Organic Frameworks

Bimetallic Nanoparticles

Zeolites

CHARACTERIZATIONS

NMR Spectroscopy

Mass Spectrometry

Gas/Liquid Chromatography

X-Ray Diffraction

Scanning Electron Spectroscopy

Transmission Electron Spectroscopy

Infrared Spectroscopy

Fluorescence Spectroscopy

Thermal Analysis

Gas Adsorption Analysis

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Selected Conferences

- Nov 20-23, 2023, IKCOC-15 – The 15th International Kyoto Conference on New Aspects of Organic Chemistry, *Kyoto, Japan*.
- Oct 24-26, 2023, The Uppsala University Conference on Sunlight- and Power-to-X, *Uppsala, Sweden*.
- CO_2PEATE Annual Meeting 2024 (*Tromsø, Norway*), 2023 (*Göteborg, Sweden*), 2022 (*Rostock, Germany*).
- $NordCO_2$ Annual Meeting 2023 (*Saariselkä, Finland*), 2022 (*Hveragerði, Iceland*).

Outreach Activities

- 2023, *Forskarskolan at Stockholm University*, supervised 7 students with the topic of "Catalytic Organic Transformations by Heterogeneous Catalysts".
- 2021-2023, *Zoom to a High School in Sweden*, participated 5 times, gave 3 lectures, including (1) Metal-Organic Frameworks: 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".

References

BELÉN MARTÍN-MATUTE

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XIAODONG ZOU

Professor, Department of Materials and Environmental Chemistry, Stockholm University

Email: xiaodong.zou@mmk.su.se

CHARLES ELMORE

Senior Director, Head of Isotope Chemistry, AstraZeneca

Email: Chad.Elmore@astrazeneca.com