CURRICULUM VITAE

Ms. NGUYEN THI DIEM HUONG

Date of birth: August 05th, 1988

Place of birth: Long An province, Vietnam

Nationality: Vietnamese

Address: Vietnam National University- Hochiminh City,

University of Science.

Faculty of Chemistry, Department of Physical Chemistry.

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CURRENT RESEARCH

Study on the bioactivity and chemical constituents of a Vietnamese medicinal plants.

Design and synthesis of crystalline compound with high surface area, interesting luminescence and application in gas storage, catalyst, chemical sensing, medical imaging, biological.

EDUCATION

2011- Present **PhD Student**

Vietnam National University – Hochiminh City, MANAR center (Molecular and Nanoarchitechture center).

Supervisor: *Dr.* Ho Thi Cam Hoai and *Dr*. Nguyen Cong Tranh

2010- Present **Teaching Assistant**

Vietnam National University – Hochiminh City, University of Science, Department of Physical Chemistry

2006-2010 **Bachelor of Science** in Chemistry (Honor Program).

University of Science Hochiminh City. (GPA: 8.00/10)

Supervisor: *Dr.*Ho Thi Cam Hoai

RESEARCH EXPERIENCES

10/2011-Present **PhD Student**

MANAR Program, Vietnam National University, Hochiminh City.

Synthesis of metal organic frameworks (MOFs) based on 1,4,5,8-naphthalenetetracarboxylic diimide derivatives - Supervisor: Dr. Ho Thi Cam Hoai and *Dr*. Nguyen Cong Tranh

Investigation on the adsorption and degradation of Nitrosamines by metal organic frameworks (MOFs) - Supervisor: Dr. Ho Thi Cam Hoai and *Dr*. Nguyen Cong Tranh

2009-2010 **Undergraduate student in Physical Chemistry**

Physical Organic Lab**,** University of Science, Vietnam National University, Hochiminh City.

Investigation on the bioactivities and chemical contituents of a VietNamese medicinal plant Vang Se (Jasminum Subtriplinerve Blume*.) – Supervisor: Dr.* Ho Thi Cam Hoai

CHEMICAL SKILLS

- Investigation on the antioxidant activity by using different in vitro methods (DPPH method and $NO^{\cdot}$ method)
- Isolation and identification of new compounds from the medicinal plants
- Experience on organic synthesis (imide derivatives)
- Synthesis of Metal Organic Frameworks
- Experimental techniques of characterization: Powder X-ray diffraction (PXRD), Single crystal X-ray diffraction (SCXRD - Fundamental), Thermal gravimetric analysis (TGA), gas adsorption (BET) with activation procedure, Fourier transform infrared spectroscopy (FT-IR), Nuclear Magnetic Resonance (NMR), Mass Spectroscopy (MS)
- Professional software: ChembioOffice, Origin, X'Pert High Score Plus, Diamond, Mercury, Crystal Maker, Gauss view, EVA, TOPAS (Basic Option), Apex 2, Shelxle, MestReNova

PUBLICATIONS

1. Nguyen Thi Diem Huong, Phan Hong Son, Bui Dang Thien Huong, Ho Thi Cam Hoai, Nguyen Thi Thanh Mai. *Bioactivities and chemical constitents of a Vietnamese medicinal plant Vang Se* (*Jasminium Subtriplinerve* Blume). Science & Technology Development, Vol 15, No.T3- **2012.**

2. Nguyen Thi Diem Huong, Bui Dang Thien Huong, Ho Thi Cam Hoai, Nguyen Thi Thanh Mai. *Antioxidative activities and chemical constituents of the ethyl acetate extract from Polygonum Tomentosum* Willd. Journal of Science and Technology, Vol. 18, **2013**, pp 86 – 93.

3. P. T. K. Nguyen, H. T. D. Nguyen, H. Q. Pham, J. Kim, K. E. Cordova, H. Furukawa, Synthesis and Selective CO_2 Capture Properties of a Series of Hexatopic Linker–Based Metal-Organic Frameworks, *Inorg. Chem.*, **2015**, *54* (20), pp 10065–10072.

CONFERENCE

Oral presentation

7th scientific conference 2010, University of Science-Vietnam National University of – Hochiminh City, *Study on the antioxidative activities and chemical constituents of the ethyl acetate extract from a Vietnamese medicinal plant Vang Se* (*Jasminium Subtriplinerve* Blume).

8th scientific conference 2012, University of Science-Vietnam National University of – Hochiminh City*, Investigation synthesis conditions of metal organic frameworks from 5,5′-(1,3,6,8-tetraoxobenzo [IMM] [3,8] phenanthroline -2-7-diyl)bis-1,3-benzendicarboxylic acid and zinc nitrate, copper (II) nitrate.*

Conférence scientifique Franco-Vietnamienne de "Chimie et Matériaux Avancés pour Environnement" – CMAE 2015 – Hanoi., *Synthesis of Novel Metal Organic Frameworks for Carbon Dioxide Separation.*

TEACHING EXPERIENCE

Teaching assitant-General Chemistry A2 (HOH002)	9/2010 – Present
General Chemistry B Laboratory (HOH081)	9/2010 – Present
General Chemistry A Laboratory (HOH080)	9/2011 – Present
Physical Chemistry I Laboratory (HOH125)	2/2013 - Present
Physical Chemistry II Laboratory (HOH126)	2011 - Present

LANGUAGE

Vietnamese

English: good reading and listening, basic speaking and writing

FELLOWSHIPS AND AWARDS

- Scholarship of People's Committee of Binh Tan District, Hochiminh City (2003-2010)
- Scholarship of excellent student, University of Science, Hochiminh City (2006 – 2010)
- Scholarship of Honor Program in Chemistry, University of Science, Hochiminh City (2006 – 2010)